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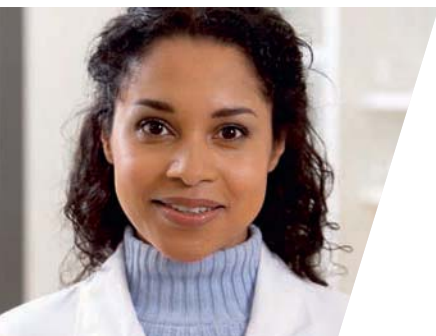
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Welcome



## *'Part of a pure process'*<sup>TM</sup>

Dear Customer,

It is my pleasure to give you a brief introduction to Mallinckrodt Baker and our new J.T.Baker catalogue. The catalogue is designed to focus on your needs, allowing our quality products to be found quickly and easily for your applications.

Mallinckrodt Baker is a global organisation, with European headquarters in Deventer, The Netherlands, and employees working at five production facilities worldwide.

In Europe, a dedicated staff of people produces, researches and sells the highest technology chemistry on a daily basis. We offer high purity chemistry for analytical, biopharmaceutical, clinical and microelectronic applications.

At Mallinckrodt Baker we understand your needs. We employ specialist contacts that understand your business and offer technical and sales support on a daily basis. We are a customer focused organisation, where service, flexibility, innovation, research and development are fundamental to company growth.

We have selected the best dealers worldwide to strengthen our business with you. Providing an optimum service through the supply channel, is principal. We make every effort to have products available when you need them. No matter which communication or supply channel you choose, direct or via distribution, we do our utmost to assure the same high level of support.

Our mission is to deliver the best chemistry and be a leading global provider of high purity chemistry for research, analysis and demanding technology markets.

At Mallinckrodt Baker we continually demand the best for the customer. Should you have any questions or suggestions, please do not hesitate to contact us by e-mail at [jtbaker.nl@emea.tycohealthcare.com](mailto:jtbaker.nl@emea.tycohealthcare.com) or contact us through our Customer Service department.

Yours sincerely,



P.J.J. de Groot  
*Managing Director*  
*Mallinckrodt Baker Europe*



**1**

**Over 100 years of experience**

## Past, Present and Future

In 1904, John Townsend Baker started a company to make the purest chemicals on earth. Along the way, he and his company achieved some major milestones.

### **A chemical manufacturer founded on one word: purity**

Baker took every penny he had to invest in a new venture and founded the J.T.Baker Chemical Company.

### **Labelling that would influence an entire industry**

To give his company a competitive difference, Baker focused on the label. He thought that if impurities were accurately listed on the label, it would benefit chemists. Accurate, informative labelling became an industry standard and is still considered a key J.T.Baker strength.

### **Innovative insight**

Over the next thirty years, plant capacity steadily expanded. Baker had another innovative insight: pure laboratory chemicals could be adapted for manufacturing use. This was the genesis of our Beaker to Bulk packaging. In the early 1940s, the company was converted to wartime production. Penicillin, pesticides, chemicals for ammunition, film, x-ray plates and batteries were produced.

### **About Mallinckrodt Baker**

Mallinckrodt was founded in 1867. In 1995, Mallinckrodt Chemical acquired J.T.Baker to create Mallinckrodt Baker, Inc. Tyco International purchased Mallinckrodt, Inc., in October 2000. We became one of the key businesses of Tyco Healthcare. Today we represent both the Mallinckrodt brand and the J.T.Baker brand in the global market.

Both brands are now to be found in laboratories, pharmaceutical processes, clinical diagnostics laboratories and microelectronic processes around the world.

### **Global markets**

Today, Mallinckrodt Baker employees work at five ISO 9000-certified manufacturing facilities located in the United States, Mexico, Europe and Malaysia, supplying more than 10,000 products worldwide.

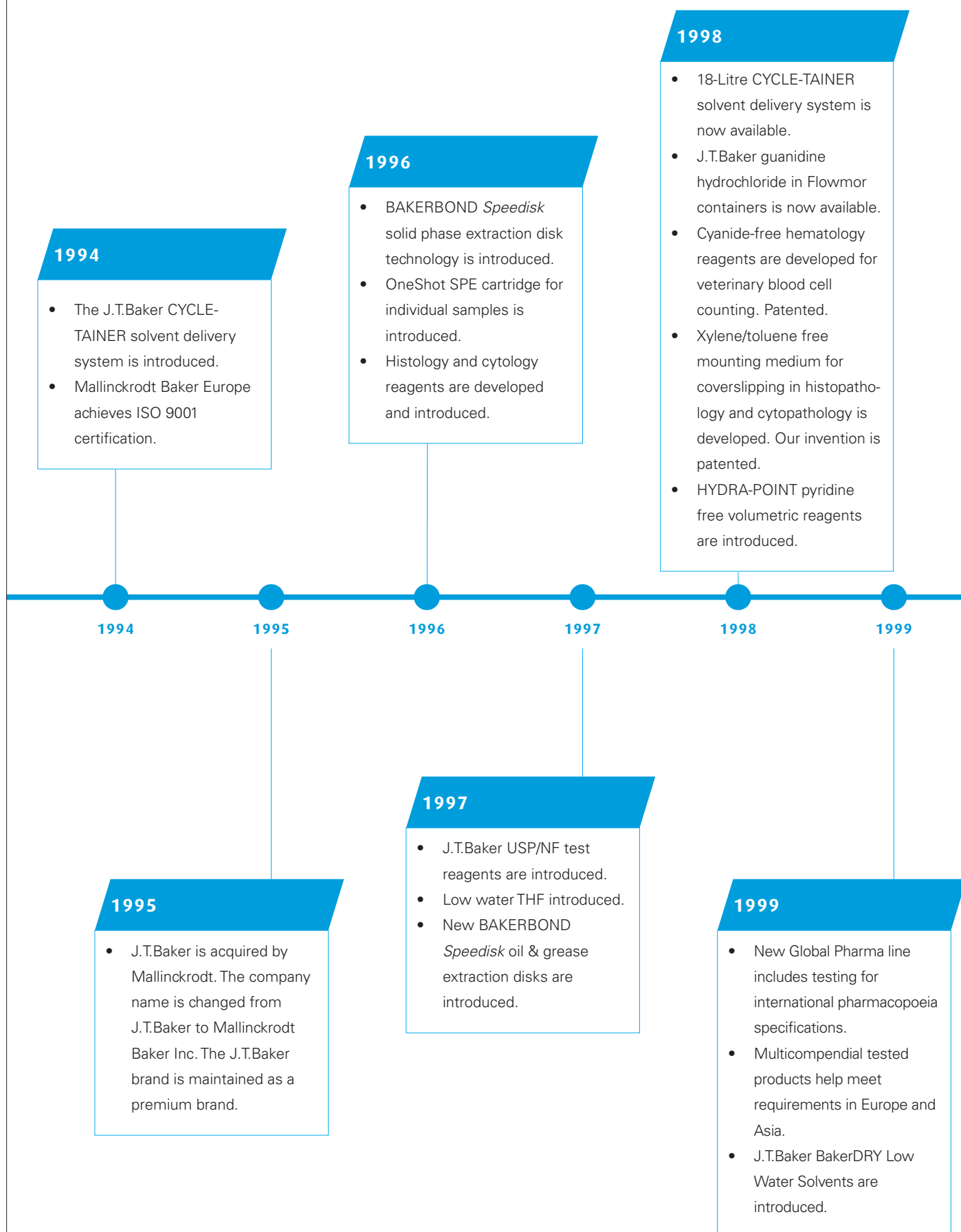
Since its founding, the company has always sought markets that demand the highest purity. To that end, Mallinckrodt Baker, Inc has also established a strong presence as a supplier to the high-growth and high-tech markets of semiconductor manufacturing, biopharmaceutical production and clinical diagnostics.



◀ John  
Townsend Baker

At the time of Baker's retirement, the company's annual sales were a little over \$1 million and more than half of its business was in laboratory reagents and the rest in pharmaceutical and fine chemicals. About 100 employees worked at a single plant that supplied more than 1600 chemicals.

## Mallinckrodt Baker's evolution over the last decade



## 2000

- Mallinckrodt Inc. is acquired by Tyco International and becomes part of The Tyco Healthcare division.
- Mallinckrodt Baker Inc. is maintained as a company.
- Comprehensive amino acid line introduced.

## 2002

- Reagents for oligonucleotide synthesis are introduced.
- HYDRA-POINT pyridine-free coulometric reagents are developed and introduced. Unique formulations are patent pending.

## 2004

- Versatile photoresist stripper and residue remover (CLK-288 cleaner) is introduced.
- Rapid Stat controls and quality assessment renewed.

2000

2001

2002

2003

2004

2005

## 2001



- The new building of the European headquarters in Deventer, The Netherlands, in use.

## 2003

- J.T.Baker special LC/MS solvents and reagents are developed and introduced.
- Mallinckrodt Baker Europe is ready with IVD CE marking.
- Mallinckrodt Baker Europe achieves ISO 14001 certification.

## 2005

- Patent for xylene/toluene free mounting medium is filed and granted. Product is available as UltraKitt.
- Mallinckrodt Baker Europe installed and validated a production tank for manufacturing of cGMP certified solutions. Begin multicompendial sodium hydroxide production.
- R&D group at Mallinckrodt Baker Europe developed a new SPE carbon column.



# 2

Doing business with us



At Mallinckrodt Baker we understand your needs. We find it fundamental to introduce new products that embrace your existing research and production capabilities.

These competences translate into the four cornerstones of doing business with us:

### **Innovation, Collaboration, Support, Quality.**

## Innovation

At Mallinckrodt Baker innovation is fundamental to support our customers' increasing demands. For that reason, *R&D* is central in our business strategies. Our timeline, on the previous page, highlights Mallinckrodt Baker's innovation and vitality over the last decade.

Besides R&D, systematic improvements to our processes are made on a continual basis. Mallinckrodt Baker utilises the techniques of *Six Sigma project*

*management* and *S&OP, Sales and Operational Planning*.

Six Sigma projects have led to tighter specifications, more consistent results and innovative new products. Our goal is to provide you with products and services of the highest purity and value.

S&OP is used as our major business planning model to anticipate market changes and meet future customer demands.

## Collaboration

We have selected the best *distribution channel* for you. On a daily basis we are in direct contact with you or we serve you through our official *distributors*. Our distribution partners are located throughout Europe, the Middle-East and Africa. An up-to-date list of

distributors can be found at [www.jtbaker.com/europe/distrib](http://www.jtbaker.com/europe/distrib). For optimal service and more detailed information you can always contact our Customer Service department. Address details on the rear cover of this catalogue.

## Support

Mallinckrodt Baker's *service* includes on-time delivery and extensive customer support. Support incorporates dedicated centralised European Customer Service, application support by product and technical specialists and our up-to-date information programs on [www.jtbaker.com](http://www.jtbaker.com)

### **Customer Service**

Our colleagues from *Customer Service* are always willing to help in any situation. A recent customer satisfaction survey describes: "Excellent performance, with a professional and responsible attitude, they are

customer, market and product oriented". A native speaking Customer Service department, with employees from throughout Europe, speak your native language for your enquiries.

### **Product and Application Specialists**

Our *Product and Application Specialists* are professionals in the businesses we offer to you, answering specific inquiries and application issues, with the highest level of technical knowledge. Ask our Customer Service department to connect you to our specialists.

## Website

On our *Website* [www.jtbaker.com](http://www.jtbaker.com) you have continual access to several of our services:

- *Certificate of Analysis*

The Certificate of Analysis facilitates your use of incoming quality control.

- *MSDS stands for Material Safety Data Sheets.*

We know the importance of the regulatory information regarding your raw materials. You can search on-line in our database of current MSDS information. Search by Product Number, by Product name or by CAS Number.

- *J.T.Baker Technical Library*

Inside this digital library you find a large body of information about our products and applications using our products. You can either browse by Market Area and Document Type, or search documents by key words.

- *Solv-IT Center Knowledge Base*

If you have a question about any of our chemicals, enter our digital Solv-IT Center Knowledge Base at [www.jtbaker.com/solvit](http://www.jtbaker.com/solvit).


Browse or search the database for answers to frequently asked questions. If you cannot find the answer, a Mallinckrodt Baker representative will promptly supply one.



- *Product literature*

In addition to all the information you find in this catalogue and the website, we compile a large number of brochures each year specific to products from our different product groups. Visit the website for a summary of all available literature, which can be ordered on line.

(A)
(B)
(C)

	<table border="0"> <tr> <td>EINECS:</td> <td>200-835-2</td> <td>VbF:</td> <td>B</td> </tr> <tr> <td>EC no.:</td> <td>608001003</td> <td>WGK:</td> <td>2</td> </tr> <tr> <td>Casno.:</td> <td>75-05-8</td> <td>Fl pt.:</td> <td>2 °C</td> </tr> <tr> <td>IMDG:</td> <td>3/II</td> <td>1 t.:</td> <td>0.78 kg</td> </tr> <tr> <td>R:</td> <td>11-20/21/22-38</td> <td></td> <td></td> </tr> <tr> <td>S:</td> <td>16-36/37</td> <td></td> <td></td> </tr> </table>	EINECS:	200-835-2	VbF:	B	EC no.:	608001003	WGK:	2	Casno.:	75-05-8	Fl pt.:	2 °C	IMDG:	3/II	1 t.:	0.78 kg	R:	11-20/21/22-38			S:	16-36/37			<h1 style="font-size: 4em; margin: 0;">J.T.Baker</h1> <h2 style="margin: 0;">Acetonitrile</h2> <p style="margin: 0;">Acétonitrile Acetonitril</p> <hr/> <p style="margin: 0;"><b>Ultra Gradient HPLC</b></p> <p style="margin: 0;"><b>'BAKER HPLC ANALYZED'</b></p> <hr/> <p style="margin: 0;">CH<sub>3</sub>CN</p> <p style="margin: 0;">M: 41.05 g/mol</p> <hr/> <p style="margin: 0;">Meets Chromatography R Pfi. Eur. monographs</p> <hr/> <p style="margin: 0;">Certificate of Analysis av Filtered through a 0.2 micron filt</p>
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R:	11-20/21/22-38																									
S:	16-36/37																									
<p><b>Acetonitrile</b> Facilmente inflamabile. Nociv por inhalación, por contacto con la piel o por ingestión. Irritante para los ojos. - Conservar a l'cart de toute flamme ou source d'étincelles - Ne pas fumer. Porter un vêtement de protection et des gants appropriés.</p>	<p><b>Acetonitrilo</b> Facilmente inflamabile. Nocivo por inhalación, por ingestión y en contacto con la piel. Irrita los ojos. - Conservar alejados de toda llama o fuente de chispas - No fumar. Usar indumentaria y guantes de protección adecuados.</p>																									
<p><b>Acetonitrile</b> Facilmente inflamabile. Nocivo por inalazione, contatto con la pelle e per ingestione. Irritante per gli occhi. - Conservare lontano da fiamme e scintille - Non fumare. Usare indumenti protettivi e guanti adatti.</p>	<p><b>Acetonitril</b> Meget brandfarlig Førlig ved indånding, ved hudkontakt og ved indtagelse. Irriterer øjnene. - Holdes væk fra antændelseskilder - rygning forbudt. Brug særligt arbejdstøj og egnede beskyttelseshandsker.</p>																									
<p><b>Acetonitril</b> Mycket brandfarligt. Førlig vid inandning, förtäring eller hudkontakt. Irriterar ögonen. - Hålls avskild från antändningskällor - Rökning förbjuden. Använd speciella skyddskläder och handskar.</p>	<p><b>Acetonitril</b> Meget brandfarlig. Førlig ved inandning, hudkontakt og svelgning. Irriterer øjnene. - Holdes væk fra antændelseskilder - Røkyng forbudt. Blnk egnede værktøjer og handskar.</p>																									
<p><b>Acetonitril</b> Licht ontvlambaar. Schadelijk bij inademing, opname door de mond en aanraking met de huid. Irriterend voor de ogen. - Verreiden van ontstekingsbronnen, niet roken - Draag geschikte handschoenen en beschermende kleding.</p>	<p><b>Acetonitrili</b> Häipösti syttyvä. Terveydelle haitallista hengittäminen, joutuessaan iholle ja nautiessa. Ärsyttää silmiä. - Etäpidettävä sytytyslähteistä - Tupakan kielletty. Käytettävä sopivia suojausvälineitä ja suojakäsineitä.</p>																									

(H)

# Quality

Fundamental to Mallinckrodt Baker is quality. Offering the highest quality, we have established best practices:

## ISO 9001: 2000

Certification guarantees continuous total quality.

## ISO 14001

Certification highlights awareness and care for the environment



## Responsible Care

Responsible Care is a worldwide initiative of the chemical industry for a continuous improvement of efforts on environment, safety and health.

At Mallinckrodt Baker these aspects are integrated in all our activities.

## CE mark

The CE mark appears on all products from Mallinckrodt Baker that are registered in the IVD Directive 98/79/EC (In Vitro Diagnostic Medical Devices).

## GMP Good Manufacturing Practice

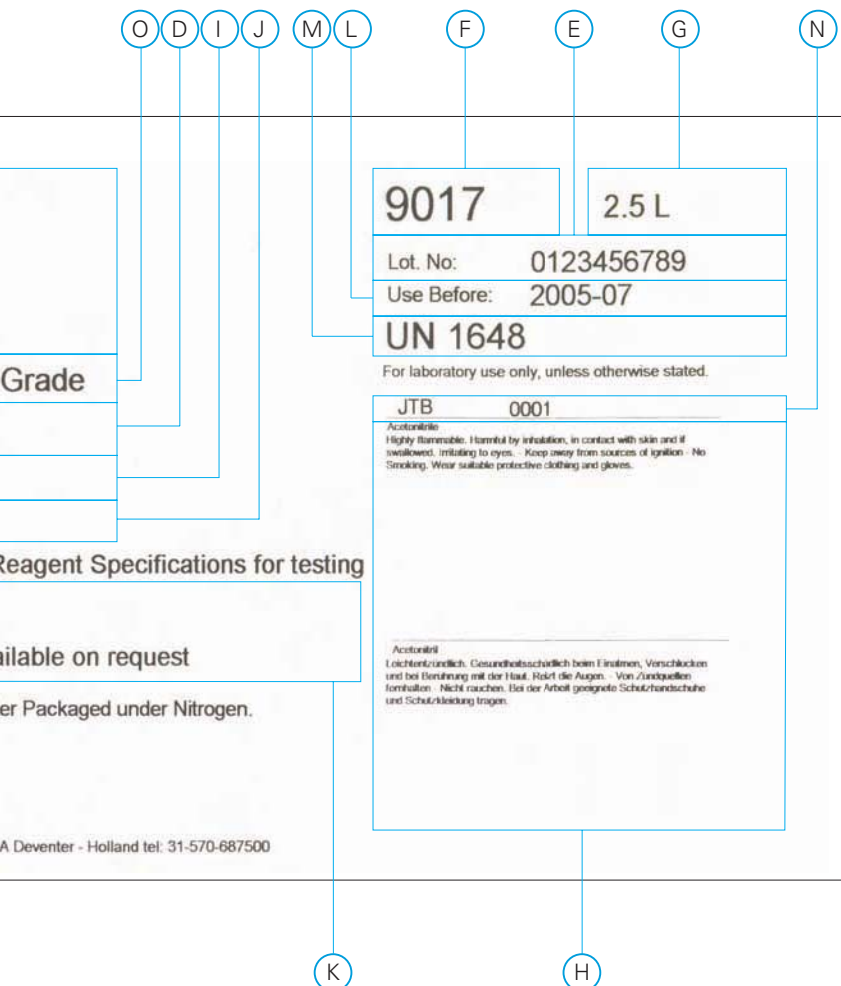
GMP Good Manufacturing Practice encompasses the documented, validated procedures and quality systems applicable to the supply of our Bulk Pharmaceutical excipients, from one of our FDA-registered facilities.

It is a guarantee to our customers that all of our Pharmaceutical grade materials are produced under consistent conditions according to validated, controlled processes, with complete traceability.

Currently, our US manufacturing facilities are FDA-registered and we anticipate the achievement of FDA-registration for our European facility by the middle of 2006.

## The J.T.Baker Label

Our approach to total quality ensures: That the product inside the package meets or exceeds the information stated on the package. On our label you will find all the required information.



- A Danger Class boxes.
- B Information on storage, shipping, et cetera.
- C Product Name, multi-language.
- D Quality definition.
- E Lot Number. For traceability purposes.
- F Product number.
- G Pack size.
- H R/S Sentences. In 10 languages.
- I Chemical formula.
- J Molecular Mass.
- K Certificate of Analysis/Specifications.
- L Use Before Date.
- M UN Code.
- N Production Batch Number. For traceability purposes.
- O Application.

## Packaging options

The packaging options of J.T.Baker products offer purity, safety, economical control of inventory and the assurance of consistent quality as you scale up from R&D through production.

### Acids



#### Glass, narrow mouth

500 ml, 1, 2.5, 4 L.



#### Plastic, narrow mouth

500 ml, 1, 2.5, 5 L High Density Polyethylene (HDPE).



#### Plastic, narrow mouth

25, 200 L HDPE drums.



#### Steel/HDPE, Combi-drum

25, 200 L Combi Steel outside, HDPE inside drums.

### Salts



#### Glass, narrow mouth

15, 30 and 60 ml containing 100 mg up to 100 grams of dry salt.



#### Glass, wide mouth

100, 250, 500 ml, 2.5 L, containing up to 5 kg of salt.



#### Plastic, wide mouth

100, 250, 500 ml, 2.5 and 5 L HDPE containing regular salts from 100 gram up to 5 kg.



#### Plastic, drum or pail

5 to 50 kg. The inside packaging consists of a resealable Low Density Polyethylene (LDPE) bag.



#### Bag-in-Box

25 to 50 kg. Corrugated cardboard box contains an inner LDPE bag.

### Solutions



#### Ampoules

DILUT-IT liquid concentrates of acids, bases and buffers are available in LDPE or glass ampoules.



#### Glass, narrow mouth

1 and 2.5 L.

## Solutions



### Plastic, narrow mouth

500 ml, 1, 2.5 and 5 L HDPE.



### Plastic, narrow mouth

5, 10 and 20 L Jerrycan.  
Easy-to-carry HDPE cans.



### Polycubes

5, 10 and 20 L polycube has an LDPE bag inside and a carton over pack.



### Intermediate Bulk Container

1000 L for process solutions.

## Solvents



### Glass, narrow mouth

100, 250, 500 ml, 1 and 2.5 L.



### Plastic, narrow mouth

1, 2.5, 5 L HDPE.



### Aluminium, narrow mouth

1 and 5 L EcoTainer.



### Plastic, narrow mouth

5, 10 and 20 L Jerrycan. Easy-to-carry HDPE cans.



### Steel, narrow mouth

25 and 200 L Tri-Sure closure  
Analytical reagent grade.



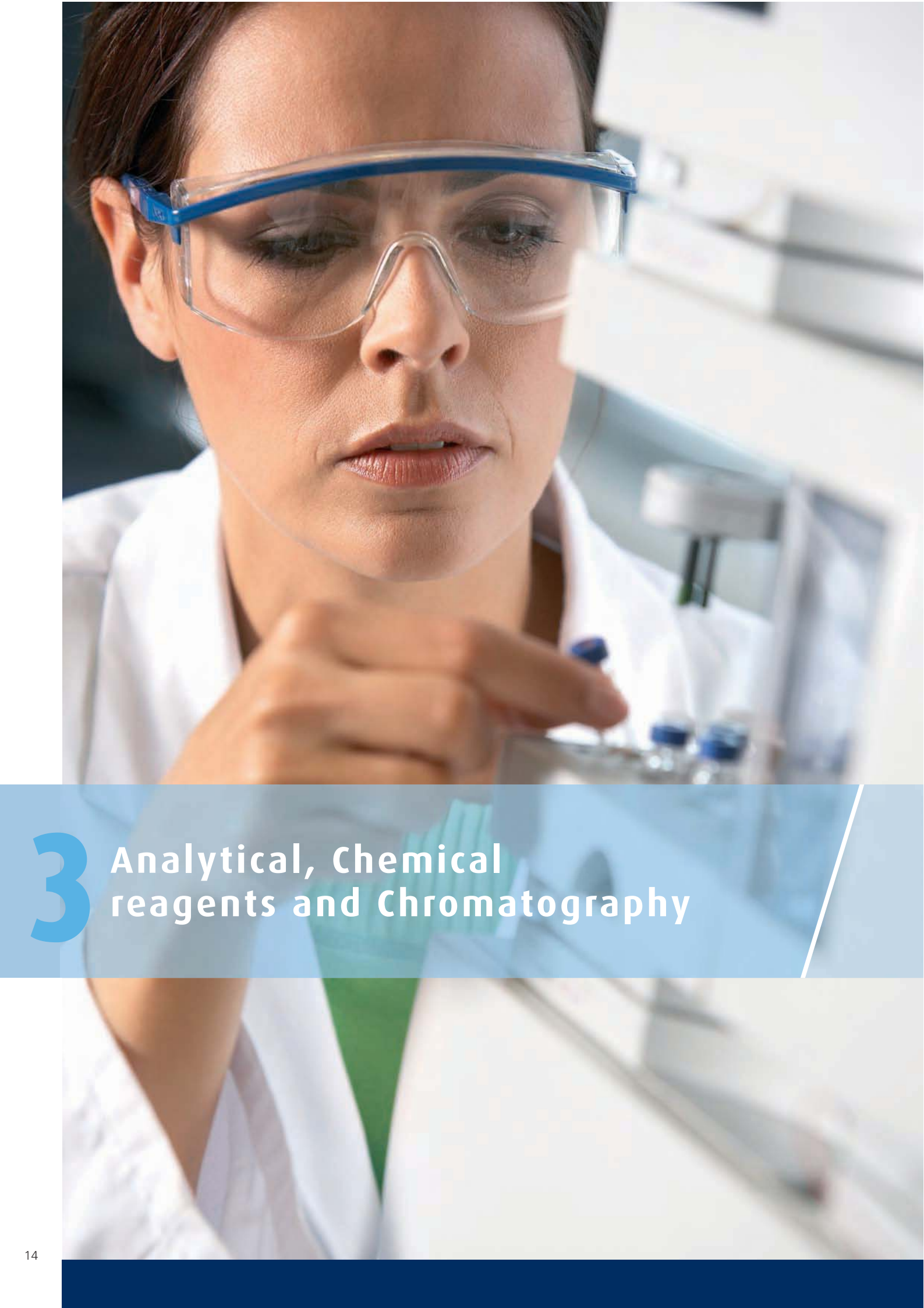
### Returnable Container

10, 30 and 200 L for Analytical reagent grade and HPLC quality.



### CYCLE-TAINER System

High Purity Solvent Delivery System  
20, 50, 200 and 1400 L for high quality HPLC and organic residue solvents.



# 3 Analytical, Chemical reagents and Chromatography

Mallinckrodt Baker is recognised as one of the world's leading high purity brands of analytical reagents. 'Actual Lot Analysis' as proof of product purity is still valuable today. However in the past decade a lot has changed in analytical and research laboratories.

#### **Highest technological standards**

Traditional and classical methods are replaced by modern instrumentation, such as LC, GC and ICP with MS as a powerful detection principle. In other fields such as pH measurement, titrimetry and spectroscopy, equipment is modernised to the highest technological standards.

#### **What we offer you**

In this catalogue we offer you innovative, high quality and reliable products, comprising a broad chemical assortment. In the pharmaceutical, food, chemical, environmental and water industries our analytical and chemical competencies will meet your analytical and chemical needs. We have qualified products for monitoring and research laboratories in the previously mentioned industries. Besides reagents and chemicals for analytical and research applications, we can support you with chemicals in your preparative and process applications.



#### **J.T.Baker analytical and chemical reagents with the J.T.Baker brand at a glance:**

- Broad chemical assortment
- Innovative and state-of-the-art products
- High and consistent quality
- For monitoring and research laboratories and for preparative and process applications

#### **Product assortment**

The analytical and chemical reagent portfolio of Mallinckrodt Baker:

**Salts**

**Acids**

**Solvents**

**Chromatography**

**Titrimetry**

**Calibration standards**

**Buffers**

**Molecular biology**

**Test strips**

**Safety products**

**Strategic contract manufacturing**

### General Quality definitions

In summary our product quality is described by:

#### Pure and Ultrapure Qualities

Chemicals and reagents, specially developed for specific analytical applications. Examples are

- ULTREX II
- BAKER INSTRA ANALYZED
- BAKER ANALYZED HPLC
- BAKER ANALYZED LC/MS
- ULTRA RESI ANALYZED
- BAKER BIO ANALYZED
- BakerDRY

#### Analytical Reagent Quality

Chemicals and reagents, for various analytical methods.

- BAKER ANALYZED may also include:
  - ACS specifications
  - ISO specifications
  - reagent specifications for testing pharmacopoeia monographs

#### Technical Quality

Technical Quality for production and general laboratory applications

- BAKER

#### Product qualities versus application

Our extensive product program is applicable to almost any analytical and process application.

See table 3a.

Table 3a Product qualities versus application

Product	Application
<b>Salts</b>	
ULTREX II	For trace element analysis <ul style="list-style-type: none"><li>• Elements ppt level</li></ul>
BAKER ANALYZED	For preparation of solutions and buffers for critical analytical applications
BAKER	For preparation of solutions and buffers for production and general laboratory applications
<b>Acids</b>	
ULTREX II	For trace element analysis ICP-MS <ul style="list-style-type: none"><li>• Trace impurities at ppt level</li></ul>
BAKER INSTRA ANALYZED	For trace element analysis ICP and AAS <ul style="list-style-type: none"><li>• Trace impurities at ppb level</li></ul>
BAKER ANALYZED	For general analytical applications and AAS <ul style="list-style-type: none"><li>• Trace impurities at ppm level</li></ul>
BAKER	For production and general laboratory applications <ul style="list-style-type: none"><li>• Limited specifications</li></ul>
<b>Solvents</b>	
BAKER ANALYZED LC/MS	For analytical and preparative LC/MS
BAKER ANALYZED HPLC	For analytical and preparative (isocratic and gradient) LC
ULTRA RESI ANALYZED	For organic residue and environmental analysis
BAKER ANALYZED Spectroscopy quality	For UV and GC Spectroscopy
BakerDRY	For organometallic and other dry synthesis <ul style="list-style-type: none"><li>• Low water</li></ul>
BAKER BIO-ANALYZED	For biotech applications, such as: <ul style="list-style-type: none"><li>• DNA/RNA Synthesis (low water)</li><li>• Peptide synthesis (low amines and peroxides)</li></ul>
BAKER ANALYZED	For general analytical applications and extractions
BAKER	For production and general laboratory applications <ul style="list-style-type: none"><li>• Limited specifications</li></ul>



### Continuation of table 3a Product qualities versus application

Product	Application
<b>Chromatography</b>	
BAKERBOND Columns and Media	Liquid chromatography of small and large molecules
Solid Phase Extraction Products	Sample clean-up and concentration with BAKERBOND SPE columns and <i>Speedisk</i> columns
Biochromatography Products and Media	Designed for bioseparation and bioprocessing
<b>Titrimetry</b>	
HYDRA-POINT	For Karl Fischer water determination
Volumetric Solutions	For all kinds of titrimetric methods
DILUT-IT	For preparation of volumetric solutions
Primary Standards	Alkalimetric and reductometric standards for standardisation of volumetric solutions
<b>Calibration standards</b>	
Primary Standards	Alkalimetric and reductometric standards for standardisation of volumetric solutions
Standards for Trace Element Analysis	Standards for trace element analysis: <ul style="list-style-type: none"> <li>• Single and multi-element ICP standards</li> <li>• Atomic spectral standards</li> </ul>
<b>Buffers</b>	
Buffers	For pH calibration range from 1 to 14 (bottles), ready to use
DILUT-IT	For pH calibration range from 1 to 14 (ampoules), concentrates to be diluted
<b>Molecular biology</b>	
ULTRAPURE BIO REAGENTS	General laboratory reagents, biological buffers, amino acids, sugars, denaturants, detergents, biological stains, electrophoresis gels, chemicals and stains
<b>Testrips</b>	
Testrips	For quick testing, such as pH, semi-quantitative determinations of ions and water hardness
<b>Safety products</b>	
Spill Kits	For spill cleanup and removal
Packaging	Special packaging to eliminate risk to users of chemicals, such as EcoTainer, CYCLE-TAINER System
<b>Strategic contract manufacturing</b>	
Special Solutions and mixtures	Does your company need to outsource a manufacturing process or produce customized chemicals? Let J.T. Baker be <i>Your Outsource Resource</i>



#### More Information

For more information about our products, refer to our website [www.jtbaker.com](http://www.jtbaker.com), contact our Customer Service or send us an e-mail at [sales@www.jtbaker.nl](mailto:sales@www.jtbaker.nl)

## Chromatography products

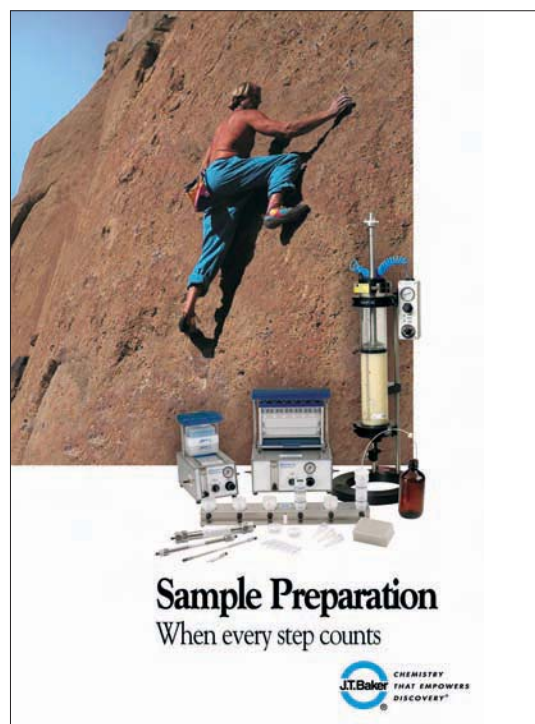
In the field of separation science, Mallinckrodt Baker stands out with a prominent role understanding customer needs and offering products of unique separation capabilities for more than 25 years. Our reliable and highly efficient chromatography products for analysis and purification are designed to deliver optimum performance, reproducibility and easy scale-up, without changing the quality of established methods. Our chromatography product portfolio includes:

- BAKERBOND Columns and Media
- Solid Phase Extraction Products
- Biochromatography Products and Media
- Optimized Spherical Flash Silica





### BAKERBOND Columns and Media

#### *Liquid Chromatography of Small and Large Molecules*

We are a basic manufacturer of BAKERBOND bonded phases, synthesised using trifunctional silane



**Table 3b General product overview**

Product	Silicia based SPE products		Polymer based SPE products
BAKERBOND spe column	BAKERBOND spe columns reverse phase normal phase ion exchange adsorption drug of abuse		BAKERBOND spe columns Styrene Divinylbenzene copolymer (SDB)
BAKERBOND Speedisk column	BAKERBOND Speedisk columns reverse phase normal phase ion exchange adsorption drug of abuse		BAKERBOND Speedisk Divinylbenzene (DVB) columns H2O-Philic DVB H2O-Philic SC-DVB H2O-Phobic DVB H2O-Phobic SC-DVB H2O-Philic SA-DVB H2O-Phobic WA-DVB
BAKERBOND Speedisk 96 - Well Plates	BAKERBOND Speedisk 96 Silica Columns (in holder)		BAKERBOND Speedisk 96 Polymer Columns (in holder)
BAKERBOND Speedisk Extraction Disk	BAKERBOND Speedisk Extraction Disks for manual extraction stations and for automated extractors		BAKERBOND Speedisk 96-Well Plates Polymer Sorbents (compatible with automatic systems) BAKERBOND Speedisk Extraction Disks for manual extraction stations and for automated extractors

synthesis chemistry providing increased resistance to hydrolysis, greater stability at pH extremes and reduced secondary silanol interactions, enabled by consistent ligand density.

BAKERBOND chromatography media and columns demonstrate enhanced levels of performance meeting your most demanding needs in small and large molecule separations. A variety of functionalities from normal phase and reverse phase to ion exchange are available for separation of small organic molecules to large peptides and oligonucleotides.

#### Families of Silica Based Products

- Analytical HPLC columns and spherical media available with 3  $\mu\text{m}$  and 5  $\mu\text{m}$  particles and 120  $\text{\AA}$  pore diameter
- Chiral HPLC columns with 5  $\mu\text{m}$  spherical or 10  $\mu\text{m}$  irregular particles and 60  $\text{\AA}$  pore diameter
- C<sub>18</sub> preparative HPLC columns and media available with 10  $\mu\text{m}$  irregular particles and 150  $\text{\AA}$  pore diameter
- Preparative LC media for low-pressure purification of grams to kilograms, available as 40  $\mu\text{m}$  irregular particles with 60  $\text{\AA}$  pore diameters
- Biochromatography media incorporating our proprietary two-part bonding chemistry are also available with 5, 15, and 40  $\mu\text{m}$  particle diameter and wide pore diameter (300  $\text{\AA}$ )

#### Solid Phase Extraction Products

For more than 25 years, Mallinckrodt Baker has been your essential companion in Solid Phase Extraction (SPE). Dr. Morris Zief, a R&D scientist at our company, first coined the term SPE in 1980. As a key to successful sample preparation, we offer a wide range of silica and polymer based SPE products. Following the demands in research and development for purity, as well as for improved detection and quantification limits in analytical techniques, we provide the market with a variety of J.T.Baker SPE products with guaranteed uniformity and reproducibility. Our wide choice of sorbents improves and simplifies sample clean-up and concentration.

#### The family of SPE products (Table 3b) includes:

- BAKERBOND spe Columns
- BAKERBOND Speedisk Columns
- BAKERBOND Speedisk 96 Columns
- BAKERBOND Speedisk 96-Well Plate
- BAKERBOND Speedisk Extraction Disk

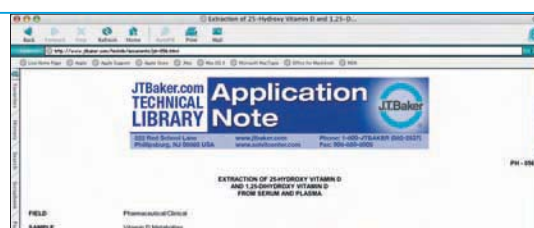
#### NEW Polymeric sorbents

Solid Phase Extraction as a sample preparation technique often requires stationary phases stable over the whole pH range. Among the wide range of SPE sorbents, Mallinckrodt Baker offers you polymeric sorbents, which can improve the quality of your sample preparation. BAKERBOND polymeric resin particles have large surface areas, they are highly rigid and stable over pH range 1–14. These patented (US Patent 6,875,817 April 5, 2005) polymeric sorbents are available in hydrophilic and hydrophobic forms and as mixed mode ion exchangers. They are highly recommended when advanced detection methods have to be used, offering the unique properties of a polymer. Excellent structural, mechanical and chemical properties, packaging purity and loadability, as well as stability of the polymeric sorbents, offer improved sample clean up and preconcentration. Highly efficient and selective polymeric sorbents with high throughput performance will enable high recovery and reproducibility of the results, even in the SPE of compounds of different polarities.



#### Application note

J.T.Baker customers can obtain technical support quickly and easily by searching our web site [www.jtbaker.com](http://www.jtbaker.com). In the J.T.Baker Technical Library, at [www.jtbaker.com/chromatography/techlib](http://www.jtbaker.com/chromatography/techlib) You will find a large body of information about J.T.Baker chromatography products and SPE applications in your field of interest.



### Processors

We offer a variety of J.T.Baker processors to meet your extraction needs in three ways:

- Standard vacuum processors for flexibility of processing different SPE devices in the same experiment
- Positive pressure processors for exceptional precision, control, and reliability and
- *Speedisk* extraction stations

Please refer to the Chromatography section for more detailed information about these products.

### Biochromatography Products and media

BAKERBOND biochromatography products and media are specifically designed following the recent advances in the fields of bioseparation and bioprocessing.

Combining chromatographic properties of wide-pore silica with a proprietary surface chemistry has created excellent particle and surface properties. Offering confirmed stability, selectivity, packaging purity and loadability, BAKERBOND biochromatography products and media enable analysis and purification of proteins, peptides and polynucleotides with the possibilities of linear scale-up. The versatile family of biochromatography products and media offer stable, efficient and highly selective phases that meet your requirements in a variety of applications.

### Optimised Spherical Flash Silica

Flash chromatography is a widely used preparative technique for separating a variety of primarily organic compounds quickly and cost effectively. In order to provide exceptional separation performance, Mallinckrodt Baker tailored spherical silica gel with stringent control of mechanical and structural properties. The separation is fully comparable to HPLC, higher flow rates with improved productivity are achieved as well as optimal physico-chemical properties.

### Optimised Spherical Flash Silica gives:

#### 1. better separation performance

A narrower particle size distribution as well as the spherical shape delivers separation performance closer to HPLC.

#### 2. higher capacity

Better flow properties and pore distribution means more access to pores for the analyte of interest, more access delivers greater capacity.



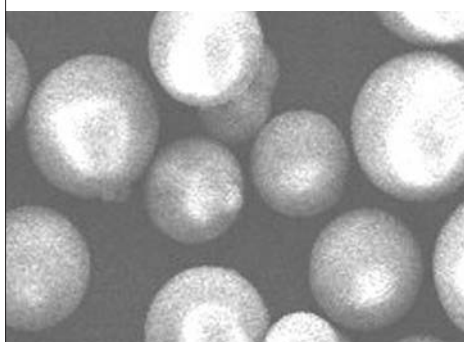
◀ J.T.Baker Spherical Flash Silica Cartridges

#### 3. higher flow rates – higher productivity

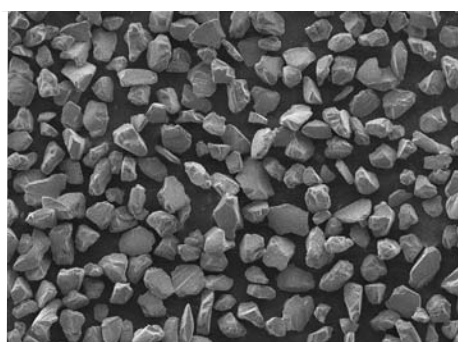
More consistent particle size as well as the spherical shape means a more even packing and distribution in the cartridge. These enable the solvent and analyte to move through faster at lower pressure!

#### 4. higher mechanical strength

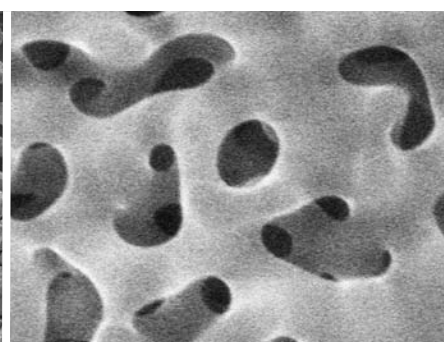
Spherical media means that there are no sharp edges to break off and create more small particles. Small particles create fines and increase backpressure.



▲ Spherical



▲ Irregular



▲ Surface of Spherical

# Reagents for trace element analysis

Trace element analysis is a vital analytical parameter in several industries. In the table below components are listed in which trace elements are analysed.

<i>Inorganic</i>	<i>Organic</i>
• High Purity Metals	• Liquids
• Ferrous and Non-Ferrous Alloys	• Solids
• Superalloys	• Pharmaceuticals
• Semiconductors	• Nutrients
• Superconductors	• Agricultural Products
• Ceramics	• Biochemicals
• Glasses	
• Carbon and Diamond	
• Salts	
• Minerals and Geological Materials	
• Synthetic Crystals	
• Liquids	

Techniques available for analysing trace elements:

1. Inductively Coupled Plasma Mass Spectrometry (ICPMS)
2. Glow Discharge Mass Spectrometry (GDMS)
3. Spark Source Mass Spectrometry (SSMS)
4. Atomic Absorption Spectrophotometry (AAS)
5. LECO - Combustion Analysis

## Analytical reagents with the J.T.Baker brand

For laboratory analysis we offer three qualities, for use in sample preparation:

- BAKER ANALYZED Reagent, including ACS, ISO and meets reagent specification for testing of USP/NF and/or Ph. Eur. Monographs.
- BAKER INSTRA-ANALYZED Reagent.
- ULTREX II Reagent.

## Sample preparation

Analytical reagent acids with the trade name BAKER ANALYZED and high purity acids with trade names BAKER INSTRA-ANALYZED and ULTREX II used for dilution or solvation. Atomic spectroscopy, both AAS and ICP are methods that require liquefied samples. Therefore, all sample matrices must be dissolved or digested. For trace analysis, the reagents used for sample preparation must be of the highest available purity. As a basic rule, trace element impurities of the acids used for dissolving a sample must be a factor 10 lower than the analyte being analysed.

## Application

See table 3c

## Calibration

For calibration in atomic spectroscopy we offer a wide range of single and multi-element standards.

See table 3d

## Mallinckrodt Baker offers the following with J.T.Baker products:

<i>Built-in Excellence</i>	<i>Making life simpler</i>
Ultra-low levels of metal impurities	Guarantee of trouble-free analysis
Advanced purification technology	Guarantee of consistent quality
Actual values for trace element impurities	Guarantee of your analytical results

**Table 3c High purity acids**

Quality definition	Trace element impurities, analysed at	Number of specifications	Application
ULTREX II	ppt level	60 elements tested to parts-per-trillion levels	ICP-MS
BAKER INSTRA-ANALYZED	ppb level	35 elements tested to 1 to 10 parts-per-billion levels	ICP-MS, ICP-OES and AAS
BAKER ANALYZED	ppm level	20 elements tested to parts per billion and parts-per-million levels	AAS



◀ **One small step for a man, one giant leap for mankind**  
*(Neil Armstrong, July 20, 1969)*

ULTREX II high purity acids were specifically developed for NASA to help complete trace element analysis of moon rock samples

**Table 3d Calibration**

Quality definition	Description	Purity	Application
BAKER INSTRA-ANALYZED	Single-element plasma standards	99.999%	ICP
BAKER INSTRA-ANALYZED	Multi-element plasma standards	N/A	ICP
BAKER ANALYZED	Atomic spectral standards	99.99%	ICP, AAS
BAKER	Atomic spectral standards	99.9%	AAS

## Solvent applications

Solvents used for different analytical and process applications also differ in quality. In the schematic below, all our solvent qualities and applications offered are represented.

Besides the chemical purity, the solvent packaging is principal to guaranteeing the product integrity. Besides

glass bottles, we also offer other packaging options, such as 5 L EcoTainer and HDPE bottles. If you use bigger quantities of high purity solvents, we can offer you our CYCLE-TAINER High Purity Solvent Delivery System.

### Mallinckrodt Baker offers

*Built-in Excellence*

Broad range of reagents and packaging

Multi-step purification technology

Specified and analysed to its application

Filtration through 0.2 micron filter

*Simplicity*

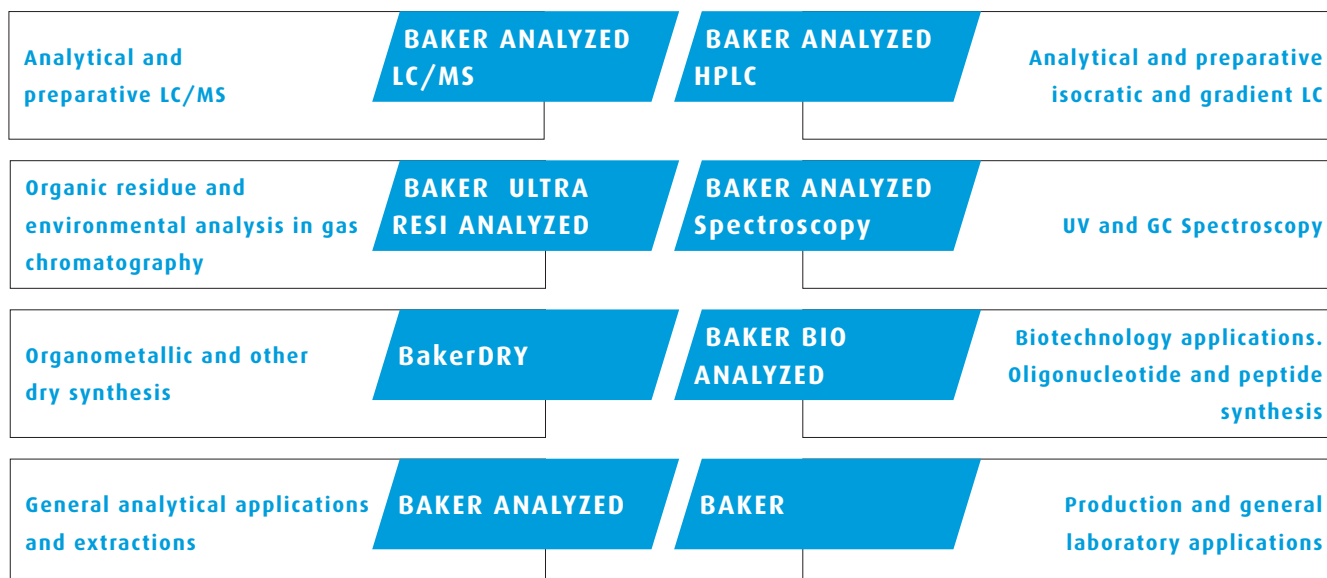
User-friendly and versatile

Trouble-free analysis

Reproducible analytical results

Ready-to-use

### Qualities versus application



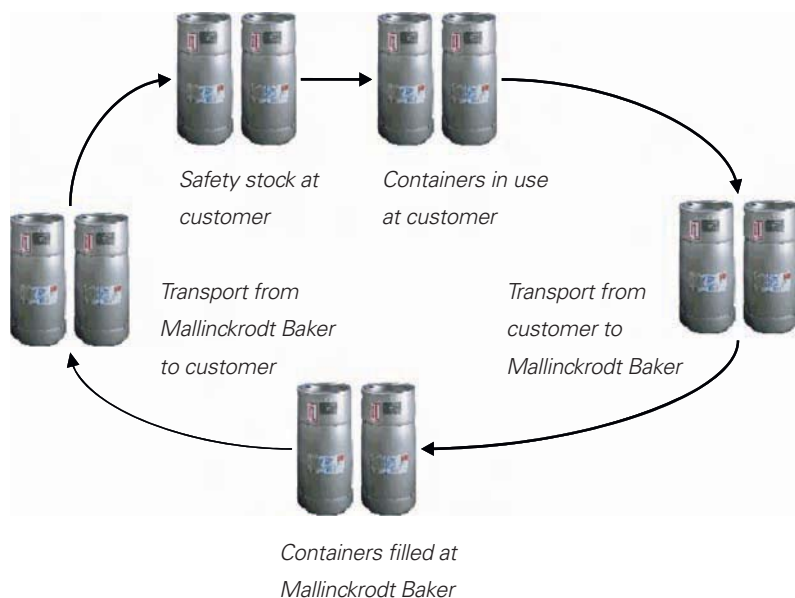
# CYCLE-TAINER High Purity Solvent Delivery System

## Preserve Purity, Protect People

Our unique solvent delivery system solves several major challenges related to solvents in laboratories, maintaining employee safety, assuring product purity, reducing packaging and disposal costs, reducing storage space, and complying with governmental regulations.

## How does it work?

Using this system, solvents are delivered to the laboratory in stainless steel containers, empty drums collected, refilled and returned to the lab, as often as you require.



▲ Flow chart CYCLE-TAINER System loop from Mallinckrodt Baker to customer and back

The CYCLE-TAINER System is available in a variety of sizes, ranging from 20 litres to 1400 litres. These containers can be placed in individual labs or accessed by several labs, through a system of stainless steel pipes that are configured and installed just like pipes for a lab's high purity gas system.

Because the CYCLE-TAINER System is completely contained, there is no risk of solvent contamination, or risks of solvent handling.

## Why a High Purity Solvent Delivery System?

### Enhances employee safety:

The system reduces employee exposure hazards and eliminates concern for glass container breakage and storage.

### Eliminates waste disposal costs

Eliminates waste packaging, no glass bottles, styrofoam or cardboard to dispose of. Without bulk packaging, storage space is maximised.

### Enhances working convenience

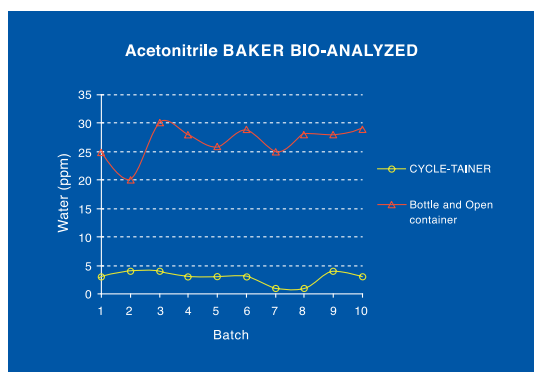
Removes necessity to move heavy cases of solvent from storage room to the lab. Just press a button!!

### Assures point-of-use solvent purity

The risk of solvent contamination is eliminated with a closed system. Also for each solvent, a different colour-coded quick connector is used. Shelf life is extended for at least two years, vastly reducing solvent degradation, even when solvents are dispensed from the container.

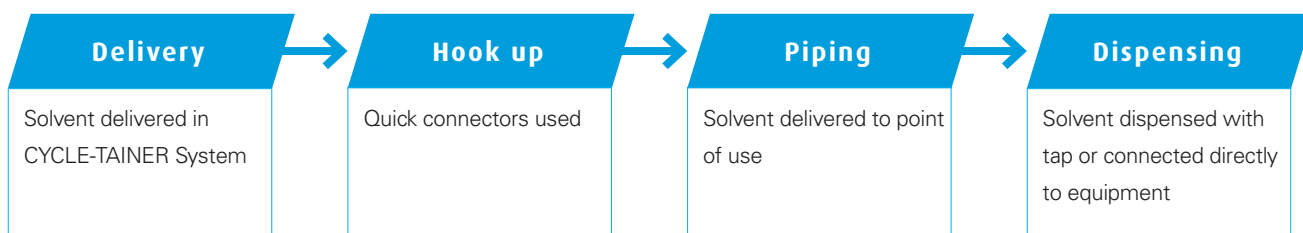


▲ Top of CYCLE-TAINER System with colour-coded quick connectors for the solvent and gas supply



▲ Example product integrity Acetonitrile BAKER BIO-ANALYZED

### Easy connection



### ▲ CYCLE-TAINER System sizes

#### Applications

- Solvent with a tap dispenser
- Direct connection to instrumentation HPLC equipment and DNA synthesizer



# Reagents for pH Measurement, Titrimetry and Water Determination according to Karl Fischer

In several industries Titrimetry, pH measurement and Karl Fischer determination are required analytical techniques, for both research and quality control purposes.

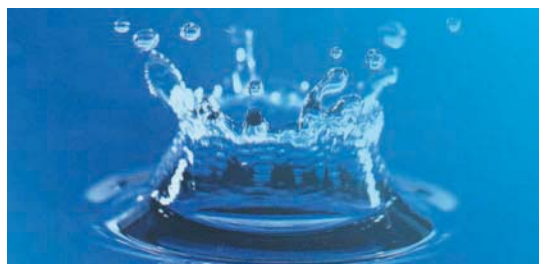
## Applications for all relevant areas:

### *pH measurement*

- Cosmetics
- Detergents/surfactants
- Electroplating baths and dyes / pigments
- Water
- Soil
- Surfaces, such as skin, paper, leather
- Biological materials, such as blood, urine
- Food / drinks / beverages / flavours / wine

### *Titrimetry, including Karl Fischer*

- Water / environment
- Pharmaceutical / vitamins
- Petrochemistry
- Plastics / photo
- Food / drinks / beverages / flavours / wine
- Tobacco
- Biology / biochemistry
- Cosmetics
- Detergents / surfactants
- Metals / plating
- Fertilisers / base materials / explosives
- Textiles / paper / ceramics
- Paints / lacquers / solvents
- Mineral resources / cement
- Energy / power plants
- Miscellaneous: Kjehldal / hypochlorite / chlorides / chlorates / sulphates / et cetera



## Mallinckrodt Baker offers

### *Built-in Excellence*

Broad range of reagents and packaging  
Actual values for ready-to-use solutions  
Analysis against NIST-SRM

## Analytical techniques available:

### *pH measurement*

- pH teststrips
- pH measurement with electrodes

### *Titrimetry, including Karl Fischer*

- Acid/Base titrations with use of indicator
- Redox titrations, such as Potassium Permanganate
- Potentiometric titration
- Karl Fischer titration: Volumetric, Coulometric and Coulometric Oven

## Analytical reagents with the J.T.Baker brand:

### *For pH measurement we offer*

- BAKER ANALYZED Buffer Solutions, traceable to NIST
- DILUT-IT Buffer concentrates in ampoules from pH 1 and 14
- BAKER-pHIX pH Papers with colour scale

### *For Titrimetry we offer*

- BAKER ANALYZED Volumetric solutions, traceable to NIST
- DILUT-IT Volumetric concentrates in ampoules
- BAKER ANALYZED Primary standards
- BAKER ANALYZED Reagent, including ACS, ISO and meets reagent specification for testing of USP/NF and/or Ph. Eur. Monographs

### *Karl Fischer titration products*

- HYDRA-POINT Karl Fischer reagents are pyridine-free and especially formulated for existing application procedures.

The HYDRA-POINT reagent line is comprised of the following products:

#### Volumetric reagents

- One component
- Two component
- Buffer, dry methanol, sodium tartrate standard

#### Coulometric reagents

- With diaphragm
- Without diaphragm

### *Simplicity*

User-friendliness and versatility

Guarantee of your analytical results

Increased reliability of analytical results

**Table 3e Applications pH Measurement, Titrimetry and Karl Fischer**

Quality definition	Application	Comment
<b>pH Measurement</b>		
BAKER ANALYZED Buffer Solutions	Calibration pH meter	Traceable to NIST
DILUT-IT Buffer concentrates	Calibration pH meter	Traceable to NIST
BAKER-pHIX pH Papers	pH check/indication	Quick pH check
<b>Titrimetry</b>		
BAKER ANALYZED Reagents	Sample preparation prior to titration	Analytical reagent grade, ACS, ISO and meets reagent specification for testing of USP / NF and/or Ph. Eur. Monographs.
BAKER ANALYZED Volumetric Solutions	Titrant	± 0.3%. When method is validated, 1 burette is used and titration is done by 1 LAB technician. 0.1% is achievable.
DILUT-IT Volumetric concentrates	Titrant	± 1% is normal. Higher accuracy is possible, but depends on dilution and glassware used.
BAKER ANALYZED Primary standards	Primary Standard	99.95 – 100.05%
<b>Karl Fischer</b>		
HYDRA-POINT Volumetric reagents	Titrant for water concentrations > 100 ppm. Several reagents are available for different applications with 1 and 2 component reagents	N/A
HYDRA-POINT Coulometric reagents	Titrant for water concentrations < 100 ppm. Several reagents are available for different applications, for analysis with and without diaphragm	Excellent end point stability for water concentration below 10 ppm
HYDRA-POINT Buffer	For stabilising the pH	The buffer capacity is 5 mmol acid per ml.
HYDRA-POINT Dry Methanol	Sample solvation	Water maximum 0.01%
Sodium Tartrate Dihydrate	Standardisation	N/A

## Reagents for Molecular Biology and Biotechnology

Biotechnology researchers expand the boundaries of science to benefit mankind by providing better healthcare, enhanced agriculture, and a cleaner and safer environment. BIO: The use of biological processes. TECHNOLOGY: To solve problems or make useful products. "NEW" BIOTECHNOLOGY: The use of cellular and biomolecular processes to solve problems or make useful products.

### The Technologies and their Applications:

- Bioprocessing Technology
- Monoclonal Antibodies
- Cell Culture
- Recombinant DNA Technology
- Cloning
- Protein Engineering
- Biosensors
- Nanobiotechnology
- Microarrays

### Mallinckrodt Baker offers

#### *Built-in Excellence*

Broad range of reagents and packaging

Biopharmaceutical reagents manufactured according to cGMP and specified to all pharmacopoeias

#### *Simplicity*

Reagents for your analytical and process application, including scale up from Beaker to Bulk

Your ultimate guarantee of process consistency

### Reagents with the J.T.Baker brand

For applications in Molecular Biology and Biotechnology we offer the following reagents and solvents:

- Biopharmaceutical product line
- Bio reagents
- Reagents for oligonucleotide synthesis
- BAKER BIO-ANALYZED Solvents
- BAKER ANALYZED HPLC and LC/MS Solvents and Reagents
- Chromatography products

### Applications

#### Biopharmaceutical product line

From drug discovery to full scale manufacturing with cGMP-produced chemicals in Beaker to Bulk packaging options:

- USP, NF and FCC Products for Pharmaceutical and Biotech processes
- Global Pharma multicompendial-tested product line
  - Manufactured under cGMP requirements
  - Meets requirements of USP and NF
  - Meets the specifications of EP (PhEur), BP and JP
- Reagents for fermentation/cell culture
  - Sugars
  - Amino acids
  - Vitamins and minerals
- Reagents for product harvest/purification
  - Guanidine hydrochloride
  - Guanidine thiocyanate
  - ULTRAPURE BIO REAGENTS
- Biological buffers
  - ULTRAPURE BIO REAGENTS

- High purity solvents
  - BAKER BIO-ANALYZED solvents
- Chromatography products

#### Bio reagents

Our ULTRAPURE BIOREAGENT and BAKER ANALYZED Biochemical reagents are general laboratory reagents, biological buffers, amino acids, sugars, denaturants, detergents, biological stains, and electrophoresis gels, chemicals and stains.

#### Reagents for oligonucleotide synthesis

Reagents applicable to a wide range of synthesisers. Besides standard products, tailor made reagents are possible.

1. Acetonitrile: see features under BAKER BIO-ANALYZED Solvents
2. Deblock
3. Activator: substitutes for 1H-Tetrazole are available, such as 5-Ethylthio-1H-tetrazole (ETT) and 4,5-Dicyanoimidazole (DCI)
4. Capping A
5. Capping B
6. Oxidizer

#### BAKER BIO-ANALYZED Solvents

Features per product, see table 3f

#### BAKER ANALYZED HPLC and LC/MS Solvents and Reagents

#### Chromatography products

BAKERBOND spe and Speedisk technology

Table 3f BAKER BIO-ANALYZED Solvents

Solvent	Product code	Comment
Acetonitrile, for DNA/RNA synthesis	8134	Water < 10 ppm in CYCLE-TAINER System
Acetonitrile, for DNA/RNA synthesis	8144	Water < 30 ppm in Bottles
Dichloromethane	9316	Water < 30 ppm, Acidity <0.0001 meq/g
Dimethyl Sulfoxide	9234	Water < 250 ppm
Dimethylformamide	9344	Amines < 5 ppm, Water < 400 ppm
Ethyl Acetate	9276	Water < 300 ppm, Acidity <0.0008 meq/g
n-Heptane, 99% n-Heptane	9185	Water < 100 ppm
Methanol	9091	Water < 50 ppm
1-Methyl-2-pyrrolidone	9261	Amines < 100 ppm, Water <200 ppm
Pyridine HPLC 'BAKER ANALYZED'	9393	Water < 100 ppm
Tetrahydrofuran HPLC 'BAKER ANALYZED'	9439	Peroxide < 10 ppm, Water < 50 ppm



# 4 Products for Hematology and Histopathology



Mallinckrodt Baker's chemical expertise and over 30 years of experience are the foundation of our J.T.Baker products for **Hematology**. We understand not just cell lysing and chemical interference of compounds on cell membranes, but we also understand the characteristics of these compounds in aqueous solutions and their long-term behaviour in the presence of other chemicals.

Within our **Histopathology** product line we offer a comprehensive range of fixatives, reagents, solvents, stains, environmentally friendly cleaning and auxiliary products specially formulated and purified for use in the histopathology and cytopathology laboratories.

Our Hematology and Histopathology products are produced using state-of-the-art production techniques in modern, certified manufacturing facilities, to assure a minimum of impurities.

R&D and production is centralised at Mallinckrodt Baker's European headquarters in Deventer, The Netherlands.



## Products for Hematology

### **Product range**

Together with the broad range of reagents for cell analysers, Mallinckrodt Baker supplies a variety of hematology controls to monitor daily accuracy and precision.

### ***Reagents for cell analysers***

We offer a complete range of reagents. This range consists of Diluids (diluting fluids), CyMets (lysing reagents) and several types of rinsing and cleaning solutions. Diluid is a specially filtered non-sterile blood diluting fluid for use in cell counting and sizing.

J.T.Baker lysing reagents are available both as Cyanide (CN) free / SDS free solutions and as traditional



▲  
**The hematology reagents manufacturing facility at Mallinckrodt Baker in Deventer, The Netherlands.**

cyanide containing reagents. The CN/SDS free reagents are non-poisonous and more stable than the traditional reagents.

#### *Hematology controls*

Our range of controls covers 8 parameter control for most instruments and differential controls for various 3-part and 5-part differential analysis including reticulocyte counting. All controls are manufactured and delivered on a four or six times per year schedule (depending on the stability). Orders are guaranteed when received 9 weeks in advance. All deliveries are accompanied by assay values for the applicable instruments.

#### *Rapid Stat, quality control and assessment program*

Rapid Stat is a fast and convenient Quality Assessment program for hemocytometry. Users of all J.T.Baker Hematology Controls are allowed to participate in our external, between-lab and between-instrument

statistical program. This service is provided to inform users of our controls about their individual performance compared to other users.

#### *Hematology stains*

Besides May-Grünwald/Giemsa, Wright and Leishman staining solutions for traditional methods, we also offer an excellent fast alternative - Hemacolour for blood smear staining within 1 minute. Additionally, we offer a microscopic stain, Reticount, for staining of Reticulocytes.

All our products are distributed through our worldwide network of distributors. Some reagents are only available through specified instrument dealers.

#### **Certification and legislation**

Effective from June 2000, In Vitro Diagnostic Medical Devices (IVDs) have to comply with the IVD Directive 98/79/EC and have to show the CE mark when the registration is completed. Mallinckrodt Baker is in full compliance with this registration. All products subject to the directive are registered and CE marked.

#### **Packaging to suit your needs**

J.T.Baker hematology reagents are supplied in various packaging options. Diluids (diluting fluids) are packed in 5, 10 or 20 L polycubes. CyMets (lysing reagents) are provided in 0.5 or 1 L HDPE bottles or 5 L polycubes. Equipment dedicated bottles are also available. Hematology controls are supplied in 2.5 or 8 ml screw-cap vials or 4.5 ml pierceable vials.

## Products for Histopathology

#### **Product range**

Mallinckrodt Baker supplies a variety of solvents, reagents and stains for use in histopathology and cytopathology laboratories.

#### *Fixatives*

##### *Formaldehyde solutions*

Effective and reproducible fixation requires buffered formaldehyde. Non-buffered formaldehyde solutions are acidic and therefore inconsistent for pH. When formaldehyde is acidic, formation of formaline-heme

pigments may occur. These pigments appear as black deposits in the tissue. To obtain optimised fixation the buffer concentration is also very important. We offer formaldehyde fixatives as a ready-to-use solution or as a concentrated solution.

All formaldehyde fixatives are phosphate buffered with an optimised buffer concentration.

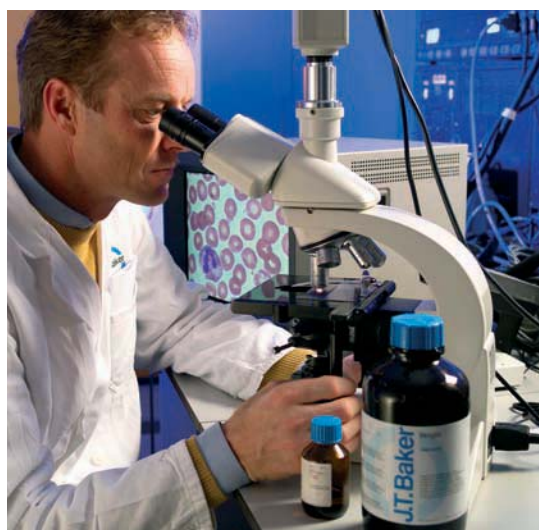
### Formalin Neutraliser

Mallinckrodt Baker developed a product that facilitates the safe disposal of used or spilled formalin. Formalin Neutraliser is a powerful chemical capable of neutralising formalin.

### Paraffin

#### UltraPar, 54 – 56°C Paraffin

UltraPar is a special particle-free paraffin intended for use in tissue embedding and sectioning in histopathology. When melted, UltraPar is a clear and bright solution. The solubility of UltraPar in UltraClear is extremely good.



### UltraClear - Environmentally and human friendly solvents to replace Xylene and Toluene

#### UltraClear

UltraClear is an iso-paraffin based clearing reagent. UltraClear may be used as a Xylene replacement during tissue embedding, deparaffination and staining processes. UltraClear is less-toxic, less-carcinogenic, less-flammable, odourless and easy to adapt with existing procedures.

#### UltraKitt

UltraKitt is a mounting medium which is miscible with UltraClear, xylene and toluene. UltraKitt is:

- Unique, patent for Europe and USA is granted and filed
- Safe, as it does not contain dangerous aromatic solvents

### High quality staining solutions

#### Staining May-Grünwald and Giemsa, Wright and Leishman

These stains are used for tissue sections, cytology smears and bone marrow. Our production methods and formulations are modified to the highest standards, resulting in optimised colour intensity of stained cells.

#### Staining Histology (H&E)

- Our *hematoxyline* is available according to Mayer or modified according to Gill II / Harris. Modern technology allows a time and temperature controlled manufacturing process. This process guarantees a final product with long stability and consistent, bright and clear staining of the cell nucleus. In addition we also offer a Scotch solution, which enables a stable and optimised bluing of the cell nucleus.
- J.T. Baker *Eosine Y* stains are offered as an alcoholic or as an aqueous solution. Our Eosine Y counter stains are optimised in combination with our hematoxyline stains. For advice on staining procedures, we offer product information bulletins on request or on our website.

#### Staining Cytology (Papanicolaou)

- Experienced laboratory technicians claimed that results obtained with the J.T.Baker PAP stains are of superb colour intensity. All of our PAP staining solutions are purified and free from contamination. We offer *Papanicolaou 1* (hematoxyline according to Gill II / Harris), *Papanicolaou 2A* (Orange G6), *Papanicolaou 2B* (Orange II) and *Papanicolaou 3B* (EA 50). For more details and recommended staining procedures, we offer product information bulletins on our website.

### Alcohols and Solvents

#### Alcohols

A broad range of ready-to-use alcohols and mixtures are available in convenient and easy-to-carry HDPE cans.

#### Solvents

In addition to our widely used UltraClear, we offer both xylene and toluene in a Histo grade quality.

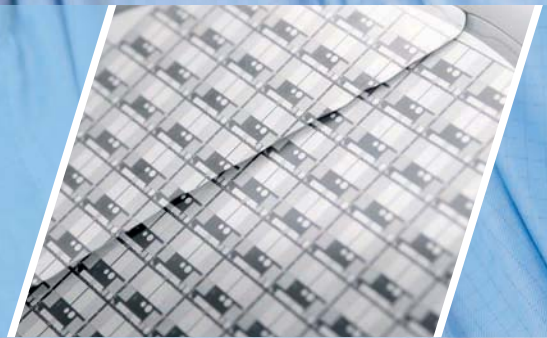


### **More Information**

Our website, [www.jtbaker.com](http://www.jtbaker.com) (select Clinical) informs you in detail about our product program and suggested working protocols.



# 5 Microelectronic materials





Our information society makes extensive use of semiconductor devices, in personal computers, cell phones, digital cameras and so on. Manufacturing of semiconductors that are the heart of these devices is very sensitive to contamination. As a result, manufacturing of semiconductor devices involves many cleaning steps and surface preparation steps. For many of these steps, highly specialised, very pure chemicals are needed.

Mallinckrodt Baker, as a specialist in high purity chemicals, has been a natural partner for the semiconductor industry from the beginning. Cleaning and surface preparation are part of our core competencies. We have the technical knowledge and capabilities to support most lithographic processes. We offer three product lines:

- **Wet Process Chemicals**
- **Photo Resist Strippers and Residue Removers**
- **Photo Resist Ancillaries and Specialty Products**



## Wet Process Chemicals

The finer the circuit geometry, the purer your chemicals need to be. To meet those needs, Mallinckrodt Baker has expanded its line of J.T.Baker fab process chemicals to include products with 1.0 and 0.1 ppb trace-metal impurity levels. In addition to J.T.Baker fab process solvents and acids, we offer a line of mixed acid, aluminium, and buffered oxide etchants. All of these products are available in a variety of container configurations including reusable containers.

**Table 5a Wet process chemicals**

J.T.Baker Grade	Trace Impurity Level	Device Geometry	SEMI Grade	SEMI Tier
CMOS	200-10-ppb	1.2 $\mu\text{m}$	1	–
Finyte/VLSI (Europe)	10-ppb	0.8 to 1.2 $\mu\text{m}$	2	A
Finyte 1	1.0-ppb	0.2 to 0.8 $\mu\text{m}$	3	B
ULTRYTE	0.1-ppb	0.09 to 0.2 $\mu\text{m}$	4	C

## Photoresist Strippers and Residue Removers

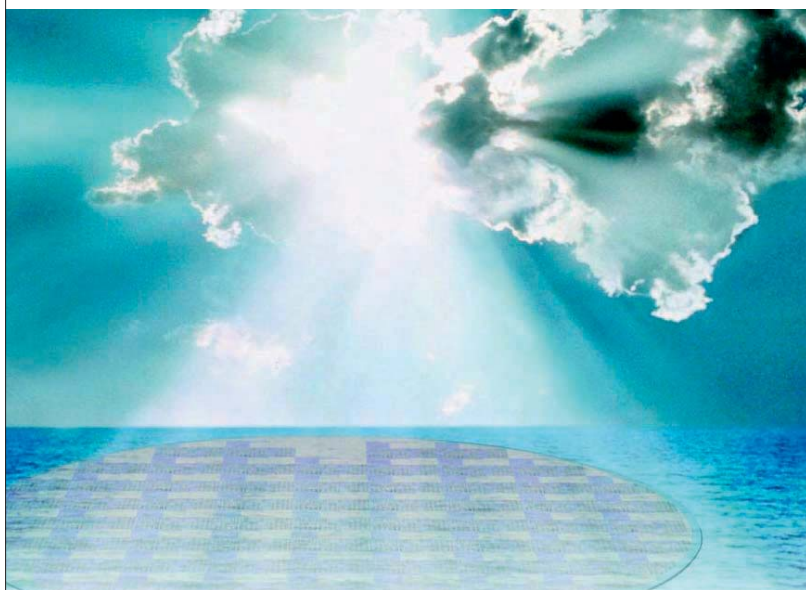
As the industry drives to smaller geometries, device manufacturers are faced with the integration challenges associated with new materials such as copper interconnects and low-K dielectrics. To reduce time to market, device manufacturers are turning to their suppliers for technical solutions to these new cleaning challenges. The Mallinckrodt Baker Applications Engineering and Research staff has a thorough understanding of today's technical challenges and is

committed to developing the advanced chemistries required to meet the needs of the semiconductor, flat panel display, packaging (flip chip, bumps), disk drive, and MEMS industries.

**Table 5b Overview by Product Family**

Product Family	Description
PRS and ALEG	The PRS and ALEG product lines provide versatile cleaning of bulk photoresist and ash/etch residue. These products are effective in traditional semiconductor (aluminium and silicon dioxide layers), flat panel display, packaging (flip chips/bumps), and disk drive applications.
REZI	Products in the REZI line of residue removers are greater than 80% aqueous and are compatible with aluminium, copper, silicon dioxide, and low-K dielectrics. They are effective in the removal of etch, ash residue, and sidewall polymer from metal and via structures.
CLK	The CLK-line of photoresist strippers and ash/etch residue removers has been specifically designed for use on copper interconnects, plus sensitive low-K and porous low-K dielectrics.

## New technology development: Copper and low-K



We are unique and especially strong in innovative products for the newest copper and low-K semiconductor devices, with incredibly small detail sizes below 100nm.

The drive for faster and smaller devices has presented a variety of challenges for device manufacturers. One of the newest challenges is working with new materials of construction such as copper interconnects and low-K dielectrics. These new materials require strippers and residue removers that will not corrode the metal or damage the delicate dielectrics. Mallinckrodt Baker has developed new J.T.Baker strippers and residue removers for flat panel displays, compound semiconductor, and traditional aluminium/silicon dioxide technologies.

## Photoresist Ancillaries and Specialty Products

In addition to the full line of J.T.Baker photoresist strippers and residue removers, Mallinckrodt Baker offers a line of photo resist ancillaries. Our photoresist ancillaries support every step of your process including

priming, edge bead removal, development and rinse – you can depend on the J.T.Baker brand for all your chemical needs. All our photoresist ancillaries are available in reusable containers.



### More Information

For the latest product developments or for more information about our products, you can visit our special Internet site [www.jtbaker.com/micro](http://www.jtbaker.com/micro) or send an e-mail to [sales@www.jtbaker.nl](mailto:sales@www.jtbaker.nl)



# 6 Pharmaceutical products



Mallinckrodt Baker is the supplier of High Purity and Performance Excipients for the manufacture of traditional synthetic and biopharmaceutical therapeutics.

We manufacture and supply acids, solvents, salts and solutions in grades suitable for the pharmaceutical, nutritional, ophthalmics (contact lens manufacturers), cosmetics, food and beverage, dental health, special batteries and other industrial markets.



## Our Pharmaceutical products

Our Pharmaceutical products are:

### *Global Pharma*

GMP manufactured products that meet multi-compendial specifications: BP, Ph. Eur., USP, JP, NF, FCC.

### *ULTRAPURE BIOREAGENTS*

General laboratory reagents, biological buffers, amino acids, sugars, denaturants, detergents, biological stains, and electrophoresis gels, chemicals and stains.

### *Synthesis (Process) chemicals*

High purity chemicals in larger pack sizes.

# Products Mallinckrodt Baker supplies for Biopharmaceutical processes

## Upstream processing

### Fermentation/Cell Culture

- Amino Acids
- Minerals
- Sugars
- Vitamins

### Initial Purification

- BAKERBOND Chromatography Media for Large Molecules
  - Ion Exchange
  - Hydrophobic Interaction
  - Reverse Phase
  - Affinity

### Final Purification/Polishing

- BAKERBOND Chromatography Media for Large Molecules
  - Ion Exchange
  - Hydrophobic Interaction
  - Reverse Phase

### Column Cleaning

- Sodium Hydroxide Solutions
- Phosphoric Acid Solutions
- Guanidine Hydrochloride Solutions

### Quality Control

- HPLC Solvents
- HPLC Columns
- SPE Columns
- Buffers
- Volumetric Solutions
- PharmaTest Reagents and Solutions
- ACS Grade Reagents



## Downstream processing

### Product Harvest

- Ammonium Sulfate Biotech Reagent
- Urea USP ULTRAPURE BIOREAGENT
- Guanidine Hydrochloride
- Sodium Hydroxide
- Polysorbate 20, vegetable derived
- Polysorbate 80, vegetable derived
- Buffer Component Salts
- Sodium Dodecyl Sulfate

### Buffer Exchange

- Tromethamine (Tris)
- Tris Hydrochloride
- Buffer Component Salts
- Biological Buffers
- ULTRAPURE BIOREAGENTS (UPR)

### Fill and Finish

- Ammonium Sulfate Biotech Reagent
- Polysorbate 20, vegetable derived, low peroxide
- New! Polysorbate 80, vegetable derived, low peroxide
- Mannitol, low endotoxin
- Tromethamine (Tris)
- Tris Hydrochloride
- Amino Acids

### Facility Cleaning

- Protocol C<sup>3</sup> Sterile Cleansers
  - Custom aqueous solutions can be made to your specifications
- Ask your sales person for details.

Products with a blue bullet (●) are manufactured under cGMP conditions



## Beaker to Bulk packaging for easy scale-up



Beaker to Bulk packaging means we fill identical product in containers suitable for each stage of your development. Using chemicals that can be easily scaled up from R&D to production is fundamental to your business. Mallinckrodt Baker helps with scalable packaging optimised for the pharmaceutical environment. Whether you need 500 grams or 25,000 kilos, your raw-material comes from the same manufacturing process to ensure consistency.

### Global Pharma

Global Pharma line is widely recognised as a "Best Practice". Developed to aid our customers as they prepare for production or clinical trials in Europe or Asia, the Global Pharma multicompendial product line will help you in meeting your regulatory requirements.



### Quality Systems That You Can Depend On

A J.T.Baker and Mallinckrodt manufactured product that is labelled as USP, NF, FCC or cGMP-produced is

- Manufactured in a GMP compliant facility
- Made according to validated processes when required
- Documented via controlled procedures and records
- Traceable from raw materials to the customer
- We maintain extensive documentation, including



batch production record (BPR), label accountability, stability data, management of change (MOC) and QC test results

For BPEs (Bulk Pharmaceutical Excipients), the company adheres to Q7A and IPEC (International Pharmaceutical Excipient Council) guidelines.



### More Information

Please request a copy of our complete pharmaceutical product list at one of our local offices.

Visit us at [www.jtbaker.com](http://www.jtbaker.com) or [www.mallchem.com](http://www.mallchem.com)



# 7

## A-Z Product Specifications







**Analytical reagents**  
**Histopathology reagents**  
**DNA synthesis reagents**  
**Pharmaceutical products**  
**Microelectronic materials**  
**Biopharmaceutical products**

## Acacia

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Acetaldehyde

9020 'BAKER'

▶ CH<sub>3</sub>CHO  
**M** = 44.05 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** -27 °C  
**CAS NO.** 75-07-0  
**EINECS** 200-836-8  
**NC CODE** 2912 12 00  
**EC NO.** 605 003 00 6  
**UN/ID NO.** 1089  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-36/37-40  
**S:** 16-33-36/37



Assay min. 99%  
 Density (g/ml) at 20°C 0.779-0.782

PRODUCT NO.	PACKING	CONT. BOX
9020.0500	500 ml	

## Acetdimethylamide

See N,N-Dimethylacetamide

## Acetic Acid

6903 99-100%, glacial / ULTREX II Ultrapure Reagent

▶ CH<sub>3</sub>COOH  
**M** = 60.05 g/mol  
**1 l** = 1.05 kg  
**FLASHPOINT** 40 °C  
**CAS NO.** 64-19-7  
**EINECS** 200-580-7  
**NC CODE** 2915 21 00  
**EC NO.** 607 002 00 6  
**UN/ID NO.** 2789  
**ADR/RID** 8 CF1  
**IMDG** 8/II  
**R:** 10-35  
**S:** 23-26-45



**Certificate Provided Reporting Actual Lot Analysis**  
 Assay (CH<sub>3</sub>COOH) min. 99.0%

**Trace Impurities (in ppt) (pg/g):**

Aluminium (Al)	max. 50
Antimony (Sb)	max. 50
Arsenic (As)	max. 50
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 50
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 50
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 50
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 10
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50

Platinum (Pt)	max. 50
Potassium (K)	max. 50
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 50
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 50
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 50
Sodium (Na)	max. 100
Strontium (Sr)	max. 10
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 50
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 50
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6903.0500	500 ml Teflon	

IMPORTANT: Material will freeze if stored below 17°C (63°F).

## Acetic Acid

99-100%, glacial / 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

6152

▶ CH<sub>3</sub>COOH**M** = 60.05 g/mol**1 l** = 1.05 kg**FLASHPOINT** 40 °C**CAS NO.** 64-19-7**EINECS** 200-580-7**NC CODE** 2915 21 00**EC NO.** 607 002 00 6**UN/ID NO.** 2789**ADR/RID** 8 CF1**IMDG** 8/II**R:** 10-35**S:** 23-26-45

corrosive

Assay (by thermometry) min. 99.7%

**Maximum Limits of Impurities:**

Residue after Evaporation (in ppm) 5

Water (H<sub>2</sub>O) 0.1%**Physical Data (not specifications):**

Density (g/ml) at 20°C 1.049

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 280 nm max. 0.05

at 350 nm max. 0.01

UV Cut-off, nm max. 255

PRODUCT NO.	PACKING	CONT. BOX
6152.1000	1 l	6
6152.2500	2.5 l	4

## Acetic Acid

99-100%, glacial / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis / ACS

9524

▶ CH<sub>3</sub>COOH**M** = 60.05 g/mol**1 l** = 1.05 kg**FLASHPOINT** 40 °C**CAS NO.** 64-19-7**EINECS** 200-580-7**NC CODE** 2915 21 00**EC NO.** 607 002 00 6**UN/ID NO.** 2789**ADR/RID** 8 CF1**IMDG** 8/II**R:** 10-35**S:** 23-26-45

corrosive

**Meets ACS Specifications**

Assay (by GC) (corrected for water) min. 99.9%

Acetaldehyde max. 0.005%

Acetic anhydride ((CH<sub>3</sub>CO)<sub>2</sub>O) max. 0.01%

Color (APHA) max. 10

Dilution Test passes test

Residue after Ignition max. 5 ppm

Solubility in Water passes test

Specific Gravity at 20°C/20°C min. 1.048

Substances Reducing Dichromate passes test

Substances Reducing KMnO<sub>4</sub> passes test

Titrable Base (meq/g) max. 0.0004

**Trace Impurities (in ppb):**

Aluminium (Al) max. 50

Arsenic and Antimony (as As) max. 5

Barium (Ba) max. 20

Beryllium (Be) max. 10

Bismuth (Bi) max. 50

Boron (B) max. 10

Cadmium (Cd) max. 5

Calcium (Ca) max. 100

Chromium (Cr) max. 50

Cobalt (Co) max. 10

Copper (Cu) max. 10

Germanium (Ge) max. 50

Heavy Metals (as Pb) max. 300

Iron (Fe) max. 50

Lead (Pb) max. 10

Lithium (Li) max. 50

Magnesium (Mg) max. 50

Manganese (Mn) max. 5

Mercury (Hg) max. 5

Nickel (Ni) max. 10

Potassium (K) max. 200

Silicon (Si) max. 50

Silver (Ag) max. 5

Sodium (Na) max. 500

Strontium (Sr) max. 5

Tin (Sn) max. 10

Titanium (Ti) max. 300

Zinc (Zn) max. 10

**Trace Impurities (in ppm):**

Chloride (Cl) max. 0.5

Phosphate (PO<sub>4</sub>) max. 0.5Sulfate (SO<sub>4</sub>) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
9524.0500	500 ml	6
9524.2500	2.5 l	4

(About 17.4N).

IMPORTANT: Material will freeze if stored below 17°C (63°F).

## Acetic Acid

6052 99-100%, glacial / 'BAKER ANALYZED' / ACS

▶ CH<sub>3</sub>COOH

**M** = 60.05 g/mol

**1 l** = 1.05 kg

**FLASHPOINT** 40 °C

**CAS NO.** 64-19-7

**EINECS** 200-580-7

**NC CODE** 2915 21 00

**EC NO.** 607 002 00 6

**UN/ID NO.** 2789

**ADR/RID** 8 CF1

**IMDG** 8/II

**R:** 10-35

**S:** 23-26-45



corrosive

### Exceeds ACS Specifications

Assay	min. 99.7%
Acetic anhydride ((CH <sub>3</sub> CO) <sub>2</sub> O)	max. 0.01%
Color (APHA)	max. 10
Dilution Test	passes test
Residue after Evaporation	max. 0.001%
Substances Reducing Dichromate	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Base (meq/g)	max. 0.0004

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.1
Arsenic (As)	max. 0.05
Chloride (Cl)	max. 1
Copper (Cu)	max. 0.1
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.2
Nickel (Ni)	max. 0.1
Sulfate (SO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
6052.1000	1 l	6
6052.2500	2.5 l	4
6052.9025	25 l	

## Acetic Acid 99% MOS Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Acetic Acid

4706 1 mol/l / 1 equiv. = 60.05g, 1N Solution / DILUT-IT

▶ CH<sub>3</sub>COOH

**M** = 60.05 g/mol

**1 l** = 1.08 kg

**CAS NO.** 64-19-7

**EINECS** 200-580-7

**NC CODE** 2915 21 00

**EC NO.** 607 002 00 6

**UN/ID NO.** 2789

**ADR/RID** 8 C3

**IMDG** 8/II

**R:** 34

**S:** 23-26-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4706	1 amp.	

Volumetric concentrate, for dilution to 500ml.

## Acetic Acid, Glacial

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Acetic Acid Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Acetic Anhydride

6004 97% / 'BAKER ANALYZED' / ACS

▶ (CH<sub>3</sub>CO)<sub>2</sub>O

**M** = 102.09 g/mol

**1 l** = 1.08 kg

**FLASHPOINT** 49 °C

**CAS NO.** 108-24-7

**EINECS** 203-564-8

**NC CODE** 2915 24 00

**EC NO.** 607 008 00 9

**UN/ID NO.** 1715

**ADR/RID** 8 CF1

**IMDG** 8/II

**R:** 10-20/22-34

**S:** 26-36/37/39-45



corrosive

### Meets ACS Specifications

Assay	min. 97.0%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Residue after Evaporation	max. 0.003%
Substances Reducing KMnO <sub>4</sub>	passes test

### Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 2
Iron (Fe)	max. 5
Sulfate (SO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
6004.1000	1 l	6
6004.2500	2.5 l	4
6004.9025	25 l	

## Acetone

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9254

▶ (CH<sub>3</sub>)<sub>2</sub>CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 00

EC NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

R: 11-36-66-67

S: 16-26-9



Assay (by GC) (corrected for water)	min. 99.4%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (µeq/g)	0.3
Titration base (µeq/g)	0.6
Water (H <sub>2</sub> O)	max. 0.5%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**

Single Impurity Peak (pg/ml) max. 10

**FID-Sensitive Impurities (as 2-Octanol):**

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9254.1000	1 l	6
9254.2500	2.5 l	4

## Acetone

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

8142

▶ (CH<sub>3</sub>)<sub>2</sub>CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 00

EC NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

R: 11-36-66-67

S: 16-26-9



Assay (by GC) (corrected for water)	min. 99.7%
Residue after Evaporation	max. 2 ppm
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0006
Water (H <sub>2</sub> O)	max. 0.2%

**Physical Data (not specifications):**

Density (g/ml) at 20°C 0.791

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 350 nm max. 0.01

at 400 nm max. 0.01

UV Cut-off, nm max. 330

PRODUCT NO.	PACKING	CONT. BOX
8142.1000	1 l	6
8142.2500	2.5 l	4

Filtered through a 0.2 micron filter.  
Packaged under Nitrogen.

## Acetone

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

8001

▶ (CH<sub>3</sub>)<sub>2</sub>CO

M = 58.08 g/mol

1 l = 0.79 kg

FLASHPOINT -20 °C

CAS NO. 67-64-1

EINECS 200-662-2

NC CODE 2914 11 00

EC NO. 606 001 00 8

UN/ID NO. 1090

ADR/RID 3 F1

IMDG 3/II

R: 11-36-66-67

S: 16-26-9

**Exceeds ACS Specifications**

Assay (by GC)	min. 99.5%
Aldehyde (as HCHO)	max. 0.002%
Color (APHA)	max. 10
Isopropyl Alcohol	max. 0.05%
Methanol (CH <sub>3</sub> OH)	max. 0.05%
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0006
Water (H <sub>2</sub> O)	max. 0.5%

**Ultraviolet Absorbance (1.00-cm path vs water;****curve smooth throughout stated range with no extraneous impurity peaks):**

at 330 nm max. 1.00

at 340 nm max. 0.10

at 350 nm max. 0.02

at 400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8001.1000	1 l	6
8001.2500	2.5 l	4

## Acetone

8002 'BAKER ANALYZED' / ACS

▶ (CH<sub>3</sub>)<sub>2</sub>CO

**M** = 58.08 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** -20 °C

**CAS NO.** 67-64-1

**EINECS** 200-662-2

**NC CODE** 2914 11 00

**EC NO.** 606 001 00 8

**UN/ID NO.** 1090

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-36-66-67

**S:** 16-26-9



### Exceeds ACS Specifications

Assay (by GC)	min. 99.5%
Aldehyde (as HCHO)	max. 0.002%
Color (APHA)	max. 10
Diisopropylether((CH <sub>3</sub> ) <sub>2</sub> CHOCH(CH <sub>3</sub> ) <sub>2</sub> )	max. 0.05%
Isopropyl Alcohol	max. 0.05%
Methanol (CH <sub>3</sub> OH)	max. 0.05%
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0006
Water (H <sub>2</sub> O)	max. 0.5%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8002.1000	1 l	6
8002.2500	2.5 l	4
8002.5000	5 l EcoTainer	4
8002.9025	25 l	
8002.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab. For safe handling of 25 l tin cans, see Self-closing tap.

## Acetone

3403 99% / HISTO GRADE

▶ (CH<sub>3</sub>)<sub>2</sub>CO

**M** = 58.08 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** -20 °C

**CAS NO.** 67-64-1

**EINECS** 200-662-2

**NC CODE** 2914 11 00

**EC NO.** 606 001 00 8

**UN/ID NO.** 1090

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-36-66-67

**S:** 16-26-9



PRODUCT NO.	PACKING	CONT. BOX
3403.5000	5 l Jerrycan	
3403.9010	10 l Jerrycan	
3403.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Acetone

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Acetone CMOS, Finyte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Acetonitrile

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9255

▶ CH<sub>3</sub>CN

M = 41.05 g/mol

I = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 95

EC NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

R: 11-20/21/22-36

S: 16-36/37



harmful



highly flammable

Assay (by GC) (corrected for water) min. 99.8%

Color (APHA) max. 10

Residue after Evaporation max. 1 ppm

Titrable Acid (μeq/g) max. 0.3

Titrable base (μeq/g) max. 0.6

Water (H<sub>2</sub>O) (by Coulometry) max. 0.05%**ECD Sensitive Impurities (as Heptachlor Epoxide):**

Single Impurity Peak (pg/ml) max. 10

**FID-Sensitive Impurities (as 2-Octanol):**

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9255.1000	1 l	6

## Acetonitrile

BAKER ANALYZED LC-MS Reagent

9821

▶ CH<sub>3</sub>CN

M = 41.05 g/mol

I = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 95

EC NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

R: 11-20/21/22-36

S: 16-36/37



harmful



highly flammable

**Certificate Provided Reporting Actual Lot Analysis**

Assay (by GC) min. 99.8%

Residue after Evaporation max. 1 ppm

Water (H<sub>2</sub>O) max. 0.01%**LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1% (v/v) formic acid:**

at 220 nm max. 0.002

at 254 nm max. 0.001

**LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:**

Positive ESI-MS Sensitive Impurities (as

Reserpine) max. 50 ng/ml

**Product Information (not specifications):**

Density (g/ml) at 20°C 0.78

Refractive Index n<sub>D</sub><sup>20</sup> 1.344**Trace Impurities (in ppb):**

Aluminium (Al) max. 50

Calcium (Ca) max. 50

Iron (Fe) max. 50

Magnesium (Mg) max. 50

Potassium (K) max. 50

Sodium (Na) max. 50

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 200 nm max. 0.05

at 220 nm max. 0.01

at 254 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9821.1000GL	1 l Glass	6

Element concentrations are at time of lot release.

The J.T.Baker CYCLE-TAINER  
High Purity Solvent Delivery System,  
preserves purity and protects people.

See chapter 3 of this catalogue for product details.

**9017** 'BAKER HPLC ANALYZED' / Ultra Gradient HPLC Grade

▶ CH<sub>3</sub>CN

**M** = 41.05 g/mol

**1 l** = 0.78 kg

**FLASHPOINT** 2 °C

**CAS NO.** 75-05-8

**EINECS** 200-835-2

**NC CODE** 2926 90 95

**EC NO.** 608 001 00 3

**UN/ID NO.** 1648

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20/21/22-36

**S:** 16-36/37



**Meets Chromatography Reagent Specifications for testing Ph. Eur. monographs**

Assay (by GC)	min. 99.8%
Appearance	passes test
Distilling Range 80-82°C	min. 95%
Identity (by IR)	passes test
Transmittance 240 nm - 420 nm	min. 98%
Water (H <sub>2</sub> O)	max. 0.01%

**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm	max. 0.3
Measured at Emission Maximum for Solvent Impurities	max. 1.0

**Gradient Elution Test (PAH Suitability test)**

**Ultraviolet Absorbance (a.u.):**

at 210 nm	max. 0.002
at 254 nm	max. 0.0005

Fluorescence (in ppb, measured as Benzo(a)Pyrene at EX/Em = 280nm/Total Emission)

Emission	max. 0.5
----------	----------

**Limits of Impurities:**

Residue after Evaporation	max. 1 ppm
Titration Acid (meq/g)	max. 0.0008
Titration Base (meq/g)	max. 0.0006

**Physical Data (not specifications):**

Density (g/ml) at 20°C	0.786
Refractive Index n <sub>D</sub> <sup>20</sup>	1.344

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 200 nm	max. 0.05
at 220 nm	max. 0.01
at 254-400 nm	max. 0.01
UV Cut-off, nm	max. 190

PRODUCT NO.	PACKING	CONT. BOX
9017.1000	1 l	6
9017.2500	2.5 l	4
9017.5000	5 l EcoTainer	4

EcoTainer, the metal solvent can for more safety in the lab.

Filtered through a 0.2 micron filter. Packaged under Nitrogen.

**9012** 'BAKER HPLC ANALYZED' / HPLC Far UV / Gradient Grade

▶ CH<sub>3</sub>CN

**M** = 41.05 g/mol

**1 l** = 0.78 kg

**FLASHPOINT** 2 °C

**CAS NO.** 75-05-8

**EINECS** 200-835-2

**NC CODE** 2926 90 95

**EC NO.** 608 001 00 3

**UN/ID NO.** 1648

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20/21/22-36

**S:** 16-36/37



Assay (by GC)	min. 99.8%
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0008
Titration Base (meq/g)	max. 0.0006
Water (H <sub>2</sub> O)	max. 0.02%

**Fluorescence Trace Impurities (as quinine base), ppb:**

at Emission Maximum for Impurities	max. 1.0
Measured at 450 nm	max. 0.3

**Gradient Elution Test (PAH Suitability test)**

**Ultraviolet Absorbance (a.u.):**

at 254 nm	max. 0.001
-----------	------------

**Physical Data (not specifications):**

Refractive Index n <sub>D</sub> <sup>20</sup>	1.344
---	-------

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 200 nm	max. 0.10
at 210 nm	max. 0.05
at 220 nm	max. 0.03
at 254 nm	max. 0.01
at 280 nm	max. 0.01
at 350 nm	max. 0.01
at 400 nm	max. 0.01
UV Cut-off, nm	max. 190

PRODUCT NO.	PACKING	CONT. BOX
9012.1000GL	1 l Glass	6
9012.2500GL	2.5 l Glass	4
9012.5000EC	5 l EcoTainer	
9012.9010RC	10 l Returnable Container	
9012.9030RC	30 l Returnable Container	
9012.9200RC	200 l Returnable Container	

EcoTainer, the metal solvent can for more safety in the lab.

Filtered through a 0.2 micron filter. Packaged under Nitrogen.



## Acetonitrile

'BAKER HPLC ANALYZED' / HPLC Isocratic Grade

8257

▶ CH<sub>3</sub>CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 95

EC NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

R: 11-20/21/22-36

S: 16-36/37



harmful



highly flammable

Assay (by GC) min. 99.8%

Residue after Evaporation max. 0.0005%

Water (H<sub>2</sub>O) max. 0.1%**Physical Data (not specifications):**Refractive Index n<sub>D</sub><sup>20</sup> 1.344**Ultraviolet Absorbance (1.00-cm path vs water):**

at 200 nm max. 0.5

at 210 nm max. 0.3

at 220 nm max. 0.2

at 254 nm max. 0.05

at 280 nm max. 0.01

UV Cut-off, nm value on certificate

PRODUCT NO.	PACKING	CONT. BOX
8257.1000	1 l	6
8257.2500	2.5 l	4
8257.5000	5 l EcoTainer	4
8257.9010RC	10 l Returnable Container	
8257.9030RC	30 l Returnable Container	
8257.9200RC	200 l Returnable Container	

EcoTainer, the metal solvent can for more safety in the lab.

## Acetonitrile

Ultra Low Water / BakerDRY / Low Water Solvent / ACS

9035

▶ CH<sub>3</sub>CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 95

EC NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

R: 11-20/21/22-36

S: 16-36/37



harmful



highly flammable

**Meets ACS Specifications**

Assay (by GC) (corrected for water) min. 99.5%

Appearance passes test

Color (APHA) max. 10

Residue after Evaporation max. 1 ppm

Titrable Acid (μeq/g) max. 0.8

Titrable base (μeq/g) max. 0.6

Water (by KF, coulometric) max. 10 ppm

**Product Information (not specifications):**

Boiling Point (typical) 81.6°C

Density (g/ml) at 25°C (typical) 0.778

PRODUCT NO.	PACKING	CONT. BOX
9035.1000	1 l	

## Acetonitrile

'BAKER BIO-ANALYZED' / for DNA/RNA synthesis

8134

▶ CH<sub>3</sub>CN

M = 41.05 g/mol

1 l = 0.78 kg

FLASHPOINT 2 °C

CAS NO. 75-05-8

EINECS 200-835-2

NC CODE 2926 90 95

EC NO. 608 001 00 3

UN/ID NO. 1648

ADR/RID 3 F1

IMDG 3/II

R: 11-20/21/22-36

S: 16-36/37



harmful



highly flammable

Assay (by GC) min. 99.9%

Residue after Evaporation max. 1 ppm

Titrable Acid (μeq/g) max. 0.5

Titrable base (μeq/g) max. 0.6

Water (H<sub>2</sub>O) max. 10 ppm**Fluorescence Trace Impurities (as quinine base), ppb:**

at Emission Maximum for Impurities max. 1.0

Measured at 450 nm max. 0.3

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 200 nm max. 0.05

at 220 nm max. 0.01

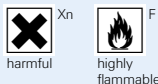
at 254-400 nm max. 0.01

UV Cut-off, nm max. 190

PRODUCT NO.	PACKING	CONT. BOX
8134	20 l Cycletainer	
8134	50 l Cycletainer	
8134	200 l Cycletainer	

**8144** 'BAKER BIO-ANALYZED' / for DNA/RNA synthesis

▶ CH<sub>3</sub>CN  
**M** = 41.05 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** 2 °C  
**CAS NO.** 75-05-8  
**EINECS** 200-835-2  
**NC CODE** 2926 90 95  
**EC NO.** 608 001 00 3  
**UN/ID NO.** 1648  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22-36  
**S:** 16-36/37



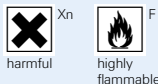
Assay (corrected for H<sub>2</sub>O) min. 99.9%  
 Residue after Evaporation max. 1 ppm  
 Titrable Acid (µeq/g) max. 0.5  
 Titrable base (µeq/g) max. 0.6  
 Water (H<sub>2</sub>O) max. 30 ppm

**Fluorescence Trace Impurities (as quinine base), ppb:**  
 Measured at 450 nm max. 0.3  
 Measured at Emission Maximum for  
 Solvent Impurities max. 1.0  
**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 200 nm max. 0.05  
 at 220 nm max. 0.01  
 at 254-400 nm max. 0.01  
 UV Cut-off, nm max. 190

PRODUCT NO.	PACKING	CONT. BOX
8144.2500	2.5 l	
8144.4000	4 l Glass	

**8004** 'BAKER ANALYZED' / ACS

▶ CH<sub>3</sub>CN  
**M** = 41.05 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** 2 °C  
**CAS NO.** 75-05-8  
**EINECS** 200-835-2  
**NC CODE** 2926 90 95  
**EC NO.** 608 001 00 3  
**UN/ID NO.** 1648  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22-36  
**S:** 16-36/37



**Exceeds ACS Specifications**  
 Assay (by GC) min. 99.5%  
 Appearance passes test  
 Color (APHA) max. 10  
 Residue after Evaporation max. 0.005%  
 Titrable Acid (µeq/g) max. 8  
 Titrable base (µeq/g) max. 0.6  
 Water (H<sub>2</sub>O) max. 0.3%

**Trace Impurities (in ppm):**  
 Aluminium (Al) max. 0.5  
 Barium (Ba) max. 0.1  
 Boron (B) max. 0.02  
 Cadmium (Cd) max. 0.05  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.02  
 Cobalt (Co) max. 0.02  
 Copper (Cu) max. 0.02  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.1  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.02  
 Nickel (Ni) max. 0.02  
 Tin (Sn) max. 0.1  
 Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8004.1000	1 l	6
8004.2500	2.5 l	4
8004.9200	200 l	

**2680** 'BAKER' / PhEur

▶ CH<sub>3</sub>CN  
**M** = 41.05 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** 2 °C  
**CAS NO.** 75-05-8  
**EINECS** 200-835-2  
**NC CODE** 2926 90 95  
**EC NO.** 608 001 00 3  
**UN/ID NO.** 1648  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22-36  
**S:** 16-36/37



**Meets Ph. Eur. Chromatography Reagent Specifications**  
 Assay min. 99.8%  
 Appearance passes test  
 Distillation Range 80-82°C min. 95%  
 Transmittance 240 nm - 420 nm min. 98%

PRODUCT NO.	PACKING	CONT. BOX
2680.2500GL	2.5 l Glass	

### Acetylcysteine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Acetylene Tetrabromide

See 1,1,2,2-Tetrabromoethane

### Acid Blue 90

See COOMASSIE Brilliant Blue R-250

### Acid Fuchsin

'BAKER'

1420

▶ $C_{20}H_{17}N_3Na_2O_9S_3$ <b>M</b> = 585.54 g/mol <b>CAS NO.</b> 3244-88-0 <b>EINECS</b> 221-816-5 <b>NC CODE</b> 3204 12 00	Identification (by IR)	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			1420.0025	25 g Glass	


### Acids for Trace Analysis

See for detailed information section Reagents for trace element analysis, page 21

### Acrylamide

'BAKER ULTRAPURE BIOREAGENT' / Purified for Electrophoresis

4081

▶ $CH_2=CHCONH_2$ <b>M</b> = 71.08 g/mol <b>CAS NO.</b> 79-06-1 <b>EINECS</b> 201-173-7 <b>NC CODE</b> 2924 19 00 <b>EC NO.</b> 616 003 00 0 <b>UN/ID NO.</b> 2074 <b>ADR/RID</b> 6.1 T2 <b>IMDG</b> 6.1/III <b>R:</b> 20/21-25-36/38-43-45-46-48/23/24/25-62 <b>S:</b> 45-53  toxic	Assay	min. 99.9%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Absorbance of a 1% Solution at 290 nm (1-cm path vs water)(a.u.)	max. 0.1	4081.0100	100 g	
	Acrylic acid ( $CH_2=CHCOOH$ )	max. 0.001%	4081.0500	500 g	
	Conductivity of 35% Solution	max. 2.5 $\mu$ mho	4081.2500	2.5 kg	
	DNase Activity	none detected	4081.9012	12 kg	
	Heavy Metals (as Pb)	max. 1 ppm			
	Insoluble in Methanol	max. 0.005%			Store between 18 and 26°C.
	Insoluble in Water	max. 0.005%			
	Iron (Fe)	max. 1 ppm			
	pH of 10% Solution in 0.1 M NaCl	6.0-7.0			
	Protease Activity	none detected			
	RNase Activity	none detected			

### Acrylamide Gels for DNA Electrophoresis

See for detailed information section Reagents for Molecular and Biotechnology, page 26

### Activated Carbon

Acid-Washed, Steam-Activated / Powder / (DARCO G-60)

E343

▶ C <b>M</b> = 12.01 g/mol <b>CAS NO.</b> 7440-44-0 <b>EINECS</b> 231-153-3 <b>NC CODE</b> 3802 10 00 <b>UN/ID NO.</b> 1362 <b>ADR/RID</b> 4.2 S2 <b>IMDG</b> 4.2/III			<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			E343.0500	500 g	

### Activated Carbon

'BAKER ANALYZED'

1991

▶ C <b>M</b> = 12.01 g/mol <b>CAS NO.</b> 7440-44-0 <b>EINECS</b> 231-153-3 <b>NC CODE</b> 3802 10 00 <b>UN/ID NO.</b> 1362 <b>ADR/RID</b> 4.2 S2 <b>IMDG</b> 4.2/III	Chloride (Cl)	max. 0.01%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Heavy Metals (as Pb)	max. 0.003%	1991.0500	500 g	
	Iron (Fe)	max. 0.03%			
	Loss on Drying at 105°C	max. 12%			
	Residue after Ignition (600°C)	max. 1%			
	Substances soluble in Ethanol	max. 0.2%			
	Substances soluble in Hydrochloric Acid	max. 1.0%			
	Substances soluble in Water	max. 0.5%			
	Sulfate ( $SO_4$ )	max. 0.01%			

## Activator DCI

9479 'BAKER ANALYZED' / for DNA/RNA synthesis

1 l = 0.80 kg  
**FLASHPOINT** 5 °C  
**NC CODE** 2926 90 95  
**UN/ID NO.** 1648  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-19-20/21/22-37/38-41  
**S:** 16-36/37



### Suitable for Oligonucleotide Synthesis

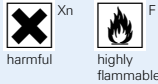
Appearance: clear, colorless solution free from visible particulates passes test  
 Molarity (Dicyano-imidazole) 0.24-0.26  
 Water (H<sub>2</sub>O) max. 30 ppm

PRODUCT NO.	PACKING	CONT. BOX
9479.0450	450 ml Glass	
9479.2500	2.5 l Glass	

## Activator ETT

9478 'BAKER ANALYZED' / for DNA/RNA synthesis

**FLASHPOINT** 5 °C  
**CAS NO.** 75-05-8  
**NC CODE** 2926 90 95  
**UN/ID NO.** 1648  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22-36  
**S:** 16-26-33-36/37



### Suitable for Oligonucleotide Synthesis

Appearance: clear, colorless solution free from visible particulates passes test  
 Molarity (5-Ethylthio-1H-Tetrazole) 0.28-0.32  
 Water (H<sub>2</sub>O) max. 50 ppm

PRODUCT NO.	PACKING	CONT. BOX
9478.0200	200 ml Glass	
9478.0450	450 ml Glass	
9478.2000GL	2 l Glass	

## Activator reagents for use in DNA synthesis

See for detailed information section Reagents for DNA/RNA Synthesis, page 261

## Agar-Agar

1892 Powder / 'BAKER'

**CAS NO.** 9002-18-0 Foreign Insoluble Matter max. 1%  
**EINECS** 232-658-1 Foreign Organic Matter max. 1%  
**NC CODE** 1302 31 00 Insoluble in HCl max. 0.5%  
 Total Ash max. 5%  
 Water (H<sub>2</sub>O) max. 20%

PRODUCT NO.	PACKING	CONT. BOX
1892.0250	250 g	
1892.1000	1 kg	

## Agarose, standard

A426 Low Electroendosmosis (EEO) / 'BAKER ULTRAPURE BIOREAGENT' / for electrophoresis

**CAS NO.** 9012-36-6 DNase Activity none detected  
**EINECS** 232-731-8 Electroendosmosis (EEO)(-Mr) max. 0.13  
**NC CODE** 3913 90 00 Gel strength (g/cm<sup>2</sup>)(MCl, 1.0%) min. 1200  
 Gelling Temperature of 1.5% (w/w) solution 34.5-37.5°C  
 Loss on Drying at 70°C (in Vacuo) max. 7%  
 Melting Temperature of 1.5% (w/w) solution 86.5-89.5°C  
 Protease Activity none detected  
 RNase Activity none detected  
 Sulfate (SO<sub>4</sub>) max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
A426.0100	100 g	
A426.0500	500 g	

## L-Alanine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Albumin, Egg

1002 Powder / Purified

**NC CODE** 3502 90 90

PRODUCT NO.	PACKING	CONT. BOX
1002.0500	500 g	

## Albumin (Bovine) Fraction V

'BAKER ANALYZED'

0604

CAS NO.	9048-46-8	Total Protein (based on N)	min. 95%	PRODUCT NO.	PACKING	CONT. BOX
EINECS	232-936-2	Water (H <sub>2</sub> O)	max. 5%	0604.0010	10 g	
NC CODE	3502 90 70					
EC NO.	90 604 29 8					

## Alcohol Absolute

See Ethanol

## ALEG 310 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## ALEG 625 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Alizarin Red S

'BAKER ANALYZED'

1471

C <sub>14</sub> H <sub>7</sub> NaO <sub>7</sub> S	Visual Transition Interval:	PRODUCT NO.	PACKING	CONT. BOX
M = 342.26 g/mol	pH 4.0	1471.0025	25 g Glass	
CAS NO. 130-22-3	pH 6.0			
EINECS 204-981-8				
NC CODE 2914 70 00				
		C.I. 58005.		

## Alizarin sulfonic acid sodium salt

See Alizarin Red S

## Alum Iron

See Ammonium Iron(III) Sulfate Dodecahydrate

## Aluminium

210 Sheets (6 x 6 x 0.001) / Foil 150x150x0.025 mm / 'BAKER'

9502

Al	Nitrogen Compounds (as N)	max. 0.002%	PRODUCT NO.	PACKING	CONT. BOX
M = 26.98 g/mol			9502.0450	450 g	
CAS NO. 7429-90-5					
EINECS 231-072-3					
NC CODE 7606 11 90					

## Aluminium

Shot / 'BAKER'

1003

Al	Assay	min. 95%	PRODUCT NO.	PACKING	CONT. BOX
M = 26.98 g/mol			1003.0500	500 g	
CAS NO. 7429-90-5					
EINECS 231-072-3					
NC CODE 7601 10 00					

## Aluminium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5701

Al	Certificate Provided Reporting Actual Lot Analysis	Aluminium (Al)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
M = 27.00 g/mol				5701.0100	100 ml	
NC CODE 3822 00 00						

R: 36/38

S: 26



irritant

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

# Alumi

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## 6917 Aluminium 1000 µg/ml (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Al Aluminium (Al) 998-1002 µg/ml  
**M** = 27.00 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



PRODUCT NO.	PACKING	CONT. BOX
6917.0100	100 ml	
6917.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## 6801 Aluminium 1000 µg/ml 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Al Aluminium (Al) 998-1002 µg/ml  
**M** = 27.00 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



PRODUCT NO.	PACKING	CONT. BOX
6801.0100	100 ml	
6801.0500	500 ml	

Aluminium nitrate in nitric acid 0.5 mol/l.

## 5716 Aluminium 10000 µg/ml (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Al **Certificate Provided Reporting Actual Lot Analysis**  
 Aluminium (Al) 9980-10020 µg/ml  
**M** = 27.00 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



PRODUCT NO.	PACKING	CONT. BOX
5716.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## 0005 Aluminium Hydroxide 'BAKER ANALYZED'

▶ Al(OH)<sub>3</sub> Assay (by EDTA titrn.) min. 98.0%  
**M** = 78.00 g/mol Chloride (Cl) max. 0.002%  
**CAS NO.** 21645-51-2 Heavy Metals (as Pb) max. 0.005%  
**EINECS** 244-492-7 Iron (Fe) max. 0.005%  
**NC CODE** 2818 30 00 Sulfate (SO<sub>4</sub>) max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0005.0500	500 g	

## 0006 Aluminium Nitrate Nonahydrate 'BAKER ANALYZED' / ACS

▶ Al(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O **Meets ACS Specifications**  
**M** = 375.13 g/mol Assay (by EDTA titrn.) 98.0-102.0%  
**CAS NO.** 7784-27-2 Calcium (Ca) max. 0.005%  
**EINECS** 236-751-8 Chloride (Cl) max. 0.001%  
**NC CODE** 2834 29 80 Heavy Metals (as Pb) max. 0.001%  
**UN/ID NO.** 1438 Insoluble Matter max. 0.005%  
**ADR/RID** 5.1 O2 Iron (Fe) max. 0.002%  
**IMDG** 5.1/III Magnesium (Mg) max. 0.001%  
**R**: 36/38-8 pH of 5% Solution at 25°C 2.5-3.5  
**S**: 17-26 Potassium (K) max. 0.002%  
 Sodium (Na) max. 0.005%  
 Sulfate (SO<sub>4</sub>) max. 0.005%



PRODUCT NO.	PACKING	CONT. BOX
0006.0500	500 g	
0006.7300	300 lbs	

## Aluminium Oxide

'BAKER ANALYZED'

0007

		PRODUCT NO.	PACKING	CONT. BOX
▶ Al <sub>2</sub> O <sub>3</sub>	Assay	0007.0500	500 g	
M = 101.96 g/mol	Chloride (Cl)			
CAS NO. 1344-28-1	Heavy Metals (as Pb)			
EINECS 215-691-6	Iron (Fe)			
NC CODE 2818 20 00	Loss on Ignition			
	Sulfate (SO <sub>4</sub> )			

## Aluminium Oxide

'BAKER ANALYZED' / for Chromatography

0008

		PRODUCT NO.	PACKING	CONT. BOX
▶ Al <sub>2</sub> O <sub>3</sub>	Adsorption (mg o-nitroaniline/g)	0008.0500	500 g	
M = 101.96 g/mol	pH of 5% Slurry at 20°C			
CAS NO. 1344-28-1	<b>Physical Data (not specifications):</b>			
EINECS 215-691-6	Average Particle Diameter, μm (APD)			
NC CODE 2818 20 00	Bulk Density (g/cc)(typical)			
	Mean Pore Diameter, A			

*Neutral, Brockmann Activity Grade I.*

## Aluminium Oxide

powder / 'BAKER ANALYZED' / for Chromatography

0537

		PRODUCT NO.	PACKING	CONT. BOX
▶ Al <sub>2</sub> O <sub>3</sub>	Adsorption (mg o-nitroaniline/g)	0537.0500	500 g	
M = 101.96 g/mol	Loss on Drying			
CAS NO. 1344-28-1	pH of 5% Slurry at 20°C			
EINECS 215-691-6	<b>Physical Data (not specifications):</b>			
NC CODE 2818 20 00	Average Particle Diameter, μm (APD)			
	Bulk Density (g/cc)(typical)			
	Mean Pore Diameter, A			

## Aluminium Oxide

'BAKER ANALYZED' / for Chromatography

1848

		PRODUCT NO.	PACKING	CONT. BOX
▶ Al <sub>2</sub> O <sub>3</sub>	Adsorption (mg o-nitroaniline/g)	1848.0500	500 g	
M = 101.96 g/mol	pH of 3% Slurry at 20°C			
CAS NO. 1344-28-1	<b>Physical Data (not specifications):</b>			
EINECS 215-691-6	Average Particle Diameter, μm (APD)			
NC CODE 2818 20 00	Bulk Density (g/cc)(typical)			
	Mean Pore Diameter, A			

*Basic, Brockmann Activity Grade I.*

## Aluminium Oxide

'BAKER ANALYZED' / for Chromatography

1850

		PRODUCT NO.	PACKING	CONT. BOX
▶ Al <sub>2</sub> O <sub>3</sub>	Adsorption (mg o-nitroaniline/g)	1850.0500	500 g	
M = 101.96 g/mol	pH of 3% Slurry at 20°C			
CAS NO. 1344-28-1	<b>Physical Data (not specifications):</b>			
EINECS 215-691-6	Average Particle Diameter, μm (APD)			
NC CODE 2818 20 00	Bulk Density (g/cc)(typical)			
	Mean Pore Diameter, A			

*Acid, Brockmann Activity Grade I.*

## Aluminium Oxide IB-F

Flexible TLC Sheets, 20 x 20 cm / 'BAKER-FLEX'

5006

PRODUCT NO.	PACKING	CONT. BOX
5006	25 sheets	

A flexible sheet coated with high purity aluminium oxide containing an inert binder and a fluorescent indicator (activated at 2540 Å). Neither the binder nor the indicator chars on sulfuric acid heat-treatment.

## Aluminium Sulfate n-Hydrate

1889 'BAKER'

▶  $\text{Al}_2(\text{SO}_4)_3 \cdot n\text{H}_2\text{O}$   
**CAS NO.** 17927-65-0  
**EINECS** 233-135-0  
**NC CODE** 2833 22 00  
**R:** 41  
**S:** 26-39



Assay ( $\text{Al}_2(\text{SO}_4)_3$ )	51.0-59.0%
Alkali and Alkaline-earth Metals	max. 0.4%
Ammonium ( $\text{NH}_4$ )	max. 500 ppm
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 50 ppm
Identification	passes test
Iron (Fe)	max. 100 ppm
pH	2.5-4.0

PRODUCT NO.	PACKING	CONT. BOX
1889.1000	1 kg	
1889.9050	50 kg	

Stored in an airtight container.

## ▶ Aluminium Sulfate, n-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Aluminium Sulfate Octadecahydrate

0010 'BAKER ANALYZED' / ACS

▶  $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$   
**M** = 666.42 g/mol  
**CAS NO.** 7784-31-8  
**EINECS** 233-135-0  
**NC CODE** 2833 22 00  
**R:** 41  
**S:** 26-39



Assay	100 - 110%
Ammonium ( $\text{NH}_4$ )	max. 0.003%
Appearance of solution	passes test
Arsenic (As)	max. 0.0005%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.005%
pH (2%, 20°C)	3 - 4

PRODUCT NO.	PACKING	CONT. BOX
0010.0500	500 g	
0010.7200	200 lbs	

## ▶ Amidosulfonic Acid

See Sulfamic Acid

## ▶ Aminoacetic Acid

See Glycine

## ▶ p-Aminobenzenesulfonamide

See Sulfanilamide

## ▶ p-Aminobenzenesulfonic Acid

See Sulfanilic Acid Anhydrous

## ▶ 2-Aminoethanesulfonic Acid

See Taurine

## ▶ 2-Aminoethanol

See Ethanolamine

## 2-Amino-2-methyl-1-propanol

3321 'BAKER ANALYZED'

▶  $\text{CH}_3\text{C}(\text{NH}_2)(\text{CH}_3)\text{CH}_2\text{OH}$   
**M** = 89.14 g/mol  
**1 l** = 0.93 kg  
**FLASHPOINT** 67 °C  
**CAS NO.** 124-68-5  
**EINECS** 204-709-8  
**NC CODE** 2922 19 80  
**EC NO.** 603 070 00 6  
**R:** 36/38-52/53  
**S:** 61



Assay	93-97%
Appearance	passes test
Boiling Point	165°C
Freezing Point	24-28°C
pH of 0.1 M Solution at 25°C	11-12
Water ( $\text{H}_2\text{O}$ )	max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX
3321.0500	500 g	
3321.1000	1 kg	
3321.2500	2.5 kg	

## ▶ Ammonia Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



## Ammonium Acetate

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

0390

		PRODUCT NO.	PACKING	CONT. BOX	
▶ CH <sub>3</sub> COONH <sub>4</sub> <b>M =</b> 77.08 g/mol <b>CAS NO.</b> 631-61-8 <b>EINECS</b> 211-162-9 <b>NC CODE</b> 2915 29 00	Insoluble Matter				
	Nitrate (NO <sub>3</sub> )				
	pH of 5% Solution at 25°C	6.7-7.3	0390.1000	1 kg	
	Residue after Ignition	max. 0.01%			
	Sulfate (SO <sub>4</sub> )	max. 0.001%			
	<b>Trace Impurities (in ppm):</b>				
	Chloride (Cl)	max. 5			
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			
	<b>Ultraviolet Absorbance (1M aqueous Solution; 1.00-cm path vs water):</b>				
at 254 nm	max. 0.02				
at 280 nm	max. 0.01				
at 350 nm	max. 0.01				

## Ammonium Acetate

'BAKER ANALYZED' / ACS

0011

		PRODUCT NO.	PACKING	CONT. BOX	
▶ CH <sub>3</sub> COONH <sub>4</sub> <b>M =</b> 77.08 g/mol <b>CAS NO.</b> 631-61-8 <b>EINECS</b> 211-162-9 <b>NC CODE</b> 2915 29 00	<b>Meets ACS Specifications</b>				
	Assay	min. 97%	0011.0500	500 g	6
	Insoluble Matter	max. 0.005%	0011.1000	1 kg	6
	Nitrate (NO <sub>3</sub> )	max. 0.001%	0011.9025	25 kg	
	pH of 5% Solution at 25°C	6.7-7.3	0011.9050	50 kg	
	Residue after Ignition	max. 0.01%			
	Sulfate (SO <sub>4</sub> )	max. 0.001%			
	<b>Trace Impurities (in ppm):</b>				
	Chloride (Cl)	max. 5			
	Heavy Metals (as Pb)	max. 5			
Iron (Fe)	max. 5				

## Ammonium Acetate

10 mM (pH 7) / BAKER ANALYZED LC-MS Reagent

9829

		PRODUCT NO.	PACKING	CONT. BOX	
<b>NC CODE</b> 3822 00 00	<b>Certificate Provided Reporting Actual Lot Analysis</b>				
	Molarity	9.5-10.5 mM	9829.1000GL	1 l Glass	6
	pH at 20°C	7.00 ± 0.05			
	<b>Product Information (not specifications):</b>				
	Density (g/ml) at 20°C	0.998	Element concentrations are at time of lot release.		
	<b>Trace Impurities (in ppb):</b>				
	Aluminium (Al)	max. 50			
	Calcium (Ca)	max. 50			
	Iron (Fe)	max. 50			
	Magnesium (Mg)	max. 50			
Potassium (K)	max. 50				
Sodium (Na)	max. 50				
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>					
at 254 nm	max. 0.02				
at 280 nm	max. 0.01				

## Ammonium Bicarbonate

See Ammonium Hydrogen Carbonate

## Ammonium Bifluoride

See Ammonium Hydrogen Fluoride

## Ammonium Biphosphate

See Ammonium Dihydrogen Phosphate

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ammonium Carbonate

0391 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

<b>CAS NO.</b> 10361-29-2	Assay (NH <sub>3</sub> )	min. 30.0%
<b>EINECS</b> 233-786-0	Insoluble Matter	max. 0.005%
<b>NC CODE</b> 2836 10 00	Non-volatile Matter	max. 0.01%
<b>R:</b> 22-36/37	Sulfur Compounds (as SO <sub>4</sub> )	max. 0.002%
<b>S:</b> 26-36-47	<b>Trace Impurities (in ppm):</b>	
	Chloride (Cl)	max. 5
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 3
	<b>Ultraviolet Absorbance (10% (w/v) aqueous solution; 1.00-cm path vs distilled water; curve smooth throughout stated range with no extraneous impurity peaks):</b>	
	at 254 nm	max. 0.02
	at 280 nm	max. 0.01
	at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0391.1000	1 kg	

## Ammonium Carbonate

0015 Powder / 'BAKER ANALYZED' / ACS

<b>CAS NO.</b> 10361-29-2	<b>Meets ACS Specifications</b>	
<b>EINECS</b> 233-786-0	Assay (NH <sub>3</sub> )	min. 30.0%
<b>NC CODE</b> 2836 10 00	<b>Additional Specification(s):</b>	
<b>R:</b> 22-36/37	Insoluble Matter	max. 0.005%
<b>S:</b> 26-36-46	Non-volatile Matter	max. 0.01%
	Sulfur Compounds (as SO <sub>4</sub> )	max. 0.002%
	<b>Trace Impurities (in ppm):</b>	
	Chloride (Cl)	max. 5
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0015.1000	1 kg	

## Ammonium Carbonate

0017 Powder / 'BAKER'

<b>CAS NO.</b> 10361-29-2	Assay (NH <sub>3</sub> )	30.0-34%
<b>EINECS</b> 233-786-0	Appearance	passes test
<b>NC CODE</b> 2836 10 00	Chloride (Cl)	max. 0.002%
<b>R:</b> 22-36/37	Heavy Metals (as Pb)	max. 0.001%
<b>S:</b> 26-36-46	Insoluble Matter	max. 0.01%
	Non-volatile Matter	max. 0.1%
	Potassium (K)	max. 1 ppm
	Sodium (Na)	max. 3 ppm
	Sulfur Compounds (as SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0017.9025	25 kg	

## Ammonium Carbonate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ammonium Cerium(IV) Nitrate

1050 'BAKER ANALYZED' / ACS

▶ (NH <sub>4</sub> ) <sub>2</sub> Ce(NO <sub>3</sub> ) <sub>6</sub>	<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>	
<b>M</b> = 548.23 g/mol	Assay	min. 98.5%
<b>CAS NO.</b> 16774-21-3	Chloride (Cl)	max. 0.01%
<b>EINECS</b> 240-827-6	Insoluble in Dilute H <sub>2</sub> SO <sub>4</sub>	max. 0.05%
<b>NC CODE</b> 2846 10 00	Iron (Fe)	max. 0.005%
<b>UN/ID NO.</b> 1477	Phosphate (PO <sub>4</sub> )	max. 0.02%
<b>ADR/RID</b> 5.1 02		
<b>IMDG</b> 5.1/II		
<b>R:</b> 41-8		
<b>S:</b> 17-26-39		

PRODUCT NO.	PACKING	CONT. BOX
1050.0500GL	500 g Glass	



## Ammonium Chloride

'BAKER ANALYZED' / ACS

0018

▶ NH<sub>4</sub>Cl

**M** = 53.49 g/mol  
**CAS NO.** 12125-02-9  
**EINECS** 235-186-4  
**NC CODE** 2827 10 00  
**EC NO.** 17 014 00 8  
**R:** 22-36  
**S:** 22



harmful

**Meets ACS Specifications. Meets Reagent****Specifications for testing USP/NF monographs**

Assay (argentometric titrn.)	min. 99.5%
Calcium (Ca)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	4.5-5.5
Residue after Ignition	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.002%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Magnesium (Mg)	max. 5
Phosphate (PO <sub>4</sub> )	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0018.0500	500 g	6
0018.1000	1 kg	6

## Ammonium Chloride

'BAKER'

0019

▶ NH<sub>4</sub>Cl

**M** = 53.49 g/mol  
**CAS NO.** 12125-02-9  
**EINECS** 235-186-4  
**NC CODE** 2827 10 00  
**EC NO.** 17 014 00 8  
**R:** 22-36  
**S:** 22



harmful

Assay (dry basis)	99.5-100.5%
Acid or alkaline reacting substances	passes test
Appearance of solution	passes test
Bromide/Iodide	passes test
Calcium (Ca)	max. 200 ppm
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iron (Fe)	max. 20 ppm
Limit of thiocyanate (SCN)	passes test
Loss on Drying	max. 0.5%
pH of 5% Solution at 25°C	4.6-6.0
Residue on Ignition	max. 0.1%
Sulfate (SO <sub>4</sub> )	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
0019.1000	1 kg	6
0019.5000	5 kg	4
0019.9050	50 kg	

## Ammonium Chloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ammonium Citrate, Dibasic

See Ammonium Hydrogen Citrate

## Ammonium Dichromate

'BAKER ANALYZED' / ACS

0021

▶ (NH<sub>4</sub>)<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>

**M** = 252.06 g/mol  
**CAS NO.** 7789-09-5  
**EINECS** 232-143-1  
**NC CODE** 2841 50 00  
**EC NO.** 24 003 00 1  
**UN/ID NO.** 1439  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/II  
**R:** 2-21-25-26-34-42/43-45-46-48/23-50/53-60-61-8  
**S:** 45-53-60-61



dangerous for the environment



explosive



very toxic

**Exceeds ACS Specifications**

Assay (dried)	min. 99.5%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.005%
Insoluble Matter and NH <sub>4</sub> OH Precipitate	max. 0.005%
Iron (Fe)	max. 0.002%
Loss on Drying at 105°C	max. 3.0%
pH of 5% Solution at 25°C	3.5-5.0
Sodium (Na)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0021.0100	100 g	
0021.9050	50 kg	

## Ammonium Dihydrogen Phosphate

4931 ULTREX Ultrapure Reagent

▶  $\text{NH}_4\text{H}_2\text{PO}_4$   
**M** = 115.03 g/mol  
**CAS NO.** 7722-76-1  
**EINECS** 231-764-5  
**NC CODE** 3105 40 00

### Certificate Provided Reporting Actual Lot Analysis

**Actual Lot Analysis Lot. No. B08H23**  
 Assay ( $\text{NH}_4\text{H}_2\text{PO}_4$ ) 99.9%  
 Particulate Matter < 0.001%  
 pH of 5% Solution at 25°C 4.2

**Metallic Impurities in parts per million (µg/g):**

Aluminium (Al)	< 0.2
Barium (Ba)	< 0.2
Bismuth (Bi)	< 2.2
Cadmium (Cd)	0.1
Calcium (Ca)	0.2
Chromium (Cr)	0.2
Cobalt (Co)	0.4
Copper (Cu)	2
Iron (Fe)	< 0.2
Lead (Pb)	< 0.2
Magnesium (Mg)	0.1
Manganese (Mn)	0.1
Mercury (Hg)	7
Molybdenum (Mo)	0.1
Nickel (Ni)	< 0.2
Niobium (Nb)	0.1
Potassium (K)	0.6
Silver (Ag)	< 0.3
Sodium (Na)	0.3
Strontium (Sr)	0.2
Tin (Sn)	0.2
Titanium (Ti)	< 0.2
Vanadium (V)	0.1
Zinc (Zn)	< 0.2
Zirconium (Zr)	< 0.2

**Non-Metallic Impurities in parts per million (µg/g):**

Arsenic (As)	< 0.8
Fluoride (F)	14.3
Halide (as Cl)	< 0.0005
Nitrate ( $\text{NO}_3$ )	< 0.0002
Silicon (Si)	0.3
Sulfur Compounds (as $\text{SO}_4$ )	< 0.005

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 215 nm	0.01
at 220 nm	0.01
at 254 nm	0.007
at 260 nm	0.007
at 280 nm	0.006

PRODUCT NO.	PACKING	CONT. BOX
4931.0050	50 g	
4931.0500	500 g	

For Laboratory, Research or Manufacturing Use.

## Ammonium Dihydrogen Phosphate

0392 crystal / 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

▶  $\text{NH}_4\text{H}_2\text{PO}_4$   
**M** = 115.03 g/mol  
**CAS NO.** 7722-76-1  
**EINECS** 231-764-5  
**NC CODE** 3105 40 00

Assay	min. 98.0%
Ammonium Hydroxide Precipitate	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Nitrate ( $\text{NO}_3$ )	max. 0.001%
pH of 5% Solution at 25°C	3.8-4.4
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Sulfur Compounds (as $\text{SO}_4$ )	max. 0.005%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 0.5
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 254 nm	max. 0.03
at 280 nm	max. 0.02
at 350 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0392.1000	1 kg	

## Ammonium Dihydrogen Phosphate

'BAKER ANALYZED' / ACS

0029

▶  $\text{NH}_4\text{H}_2\text{PO}_4$ 

**M** = 115.03 g/mol  
**CAS NO.** 7722-76-1  
**EINECS** 231-764-5  
**NC CODE** 3105 40 00

**Meets ACS Specifications. Meets Reagent****Specifications for testing USP/NF monographs**

Assay	min. 98.0%
Calcium (Ca)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Magnesium (Mg)	max. 0.0005%
Nitrate ( $\text{NO}_3$ )	max. 0.001%
pH of 5% Solution at 25°C	3.8-4.4
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Sulfate ( $\text{SO}_4$ )	max. 0.01%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0029.1000	1 kg	6
0029.9010	10 kg	

## Ammonium Fluoride

'BAKER ANALYZED' / ACS

0023

▶  $\text{NH}_4\text{F}$ 

**M** = 37.04 g/mol  
**CAS NO.** 12125-01-8  
**EINECS** 235-185-9  
**NC CODE** 2826 11 00  
**EC NO.** 9 006 00 8  
**UN/ID NO.** 2505  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 23/24/25  
**S:** 1/2-26-45



toxic

**Meets ACS Specifications**

Assay	min. 98.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Residue after Ignition	max. 0.01%
Sulfate ( $\text{SO}_4$ )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0023.0250	250 g	6

## Ammonium Fluoride 40% MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Ammonium Heptamolybdate Tetrahydrate

'BAKER ANALYZED' / ACS

0024

▶  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$ 

**M** = 1235.86 g/mol  
**CAS NO.** 12054-85-2  
**EINECS** 234-722-4  
**NC CODE** 2841 70 00

**Meets ACS Specifications**

Assay (as $\text{MoO}_3$ )	81.0-83.0%
Arsenate, Phosphate and Silicate (as $\text{SiO}_2$ )	max. 0.001%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.005%
Nitrate ( $\text{NO}_3$ )	passes test
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.01%
Sulfate ( $\text{SO}_4$ )	max. 0.02%

**Trace Impurities (in ppm):**

Phosphate ( $\text{PO}_4$ )	max. 5
-----------------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0024.0250	250 g	6
0024.1000	1 kg	6
0024.5000	5 kg	
0024.9050	50 kg	

## Ammonium Heptamolybdate Tetrahydrate

'BAKER'

1890

▶  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$ 

**M** = 1235.86 g/mol  
**CAS NO.** 12054-85-2  
**EINECS** 234-722-4  
**NC CODE** 2841 70 00

Assay (as $\text{MoO}_3$ )	81.0-83.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.003%
Insoluble Matter	max. 0.01%
Nitrate ( $\text{NO}_3$ )	max. 0.01%
Phosphate ( $\text{PO}_4$ )	max. 0.001%
Sulfate ( $\text{SO}_4$ )	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1890.9025	25 kg	
1890.9050	50 kg	

## Ammonium Hydrogen Carbonate

0013 'BAKER ANALYZED'

▶  $\text{NH}_4\text{HCO}_3$

**M** = 79.06 g/mol  
**CAS NO.** 1066-33-7  
**EINECS** 213-911-5  
**NC CODE** 2836 10 00  
**R:** 22-36/37  
**S:** 26-36-46



harmful

Assay	99.0-101.0%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	7.0-8.0
Residue after Ignition	max. 0.005%
Sulfate ( $\text{SO}_4$ )	max. 0.001%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0013.1000	1 kg	
0013.9025	25 kg	
0013.9050	50 kg	

## Ammonium Hydrogen Citrate

0020 'BAKER ANALYZED' / ACS

▶  $(\text{NH}_4)_2\text{HC}_6\text{H}_5\text{O}_7$

**M** = 226.19 g/mol  
**CAS NO.** 3012-65-5  
**EINECS** 221-146-3  
**NC CODE** 2918 15 00  
**R:** 36  
**S:** 26



irritant

**Meets ACS Specifications**

Assay (by formol method)	98.0-103.0%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Oxalate ( $\text{C}_2\text{O}_4$ )	passes test
Residue after Ignition	max. 0.01%
Sulfur Compounds (as $\text{SO}_4$ )	max. 0.005%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Phosphate ( $\text{PO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0020.1000	1 kg	
0020.9025	25 kg	

## Ammonium Hydrogen Fluoride

0014 'BAKER ANALYZED'

▶  $\text{NH}_4\text{F}\cdot\text{HF}$

**M** = 57.04 g/mol  
**CAS NO.** 1341-49-7  
**EINECS** 215-676-4  
**NC CODE** 2826 11 00  
**EC NO.** 9 009 00 4  
**UN/ID NO.** 1727  
**ADR/RID** 8 C2  
**IMDG** 8/II  
**R:** 25-34  
**S:** 22-26-37-45



corrosive



toxic

Assay	min. 96.0%
Ammonium Fluoride (as $\text{NH}_4\text{F}$ )	max. 3.0%
Heavy Metals (as Pb)	max. 0.002%
Hydrofluoric Acid	max. 1.0% (w/w)
Insoluble Matter	max. 0.02%
Moisture (as $\text{H}_2\text{O}$ )	max. 0.4%
pH of 5% Solution at 25°C	4.0-6.5

PRODUCT NO.	PACKING	CONT. BOX
0014.5000	5 kg	
0014.9045	100 lbs	

Product may contain black specks that is indigenous to product.

## Ammonium Hydrogen Phosphate

0031 'BAKER ANALYZED' / ACS

▶  $(\text{NH}_4)_2\text{HPO}_4$

**M** = 132.06 g/mol  
**CAS NO.** 7783-28-0  
**EINECS** 231-987-8  
**NC CODE** 3105 30 00

**Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs**

Assay	min. 98.0%
Calcium (Ca)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Magnesium (Mg)	max. 0.0005%
Nitrate ( $\text{NO}_3$ )	max. 0.003%
pH of 5% Solution at 25°C	7.7-8.1
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Sulfate ( $\text{SO}_4$ )	max. 0.01%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
---------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0031.1000	1 kg	
0031.9050	50 kg	

## Ammonium Hydroxide

33% / 'BAKER'

6125

▶ NH<sub>4</sub>OH

M = 35.05 g/mol

1 l = 0.88 kg

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 00

EC NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

R: 34-50

S: 26-36/37/39-45-61



corrosive

dangerous  
for the  
environment

Assay (as NH <sub>3</sub> ) (acidimetric)	30-33%
Chloride (Cl)	max. 0.002%
Residue after Ignition	max. 0.003%
Substances Reducing KMnO <sub>4</sub>	max. 0.0008%
Sulfate (SO <sub>4</sub> )	max. 0.003%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
6125.1000	1 l	6
6125.2500	2.5 l	4
6125.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Ammonium Hydroxide

30% / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis

6162

▶ NH<sub>4</sub>OH

M = 35.05 g/mol

1 l = 0.90 kg

CAS NO. 1336-21-6

EINECS 215-647-6

NC CODE 2814 20 00

EC NO. 7 001 01 2

UN/ID NO. 2672

ADR/RID 8 C5

IMDG 8/III

R: 34-50

S: 26-36/37/39-45-61



corrosive

dangerous  
for the  
environment

Assay (NH <sub>3</sub> )	28.0-30.0%
Appearance	passes test
Color (APHA)	max. 10
Residue after Ignition	max. 3 ppm
Specific Gravity at 60°/60°F	0.896-0.902
Substances Reducing KMnO <sub>4</sub>	passes test

**Trace Impurities (in ppb):**

Aluminium (Al)	max. 20
Arsenic and Antimony (as As)	max. 50
Barium (Ba)	max. 10
Boron (B)	max. 20
Cadmium (Cd)	max. 5
Calcium (Ca)	max. 200
Chromium (Cr)	max. 5
Cobalt (Co)	max. 1
Copper (Cu)	max. 20
Heavy Metals (as Pb)	max. 200
Iron (Fe)	max. 10
Lead (Pb)	max. 5
Lithium (Li)	max. 20
Magnesium (Mg)	max. 20
Manganese (Mn)	max. 5
Mercury (Hg)	max. 5
Nickel (Ni)	max. 5
Potassium (K)	max. 500
Silicon (Si)	max. 1000
Silver (Ag)	max. 5
Sodium (Na)	max. 300
Strontium (Sr)	max. 10
Tin (Sn)	max. 10
Zinc (Zn)	max. 5

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 0.5
Phosphate (PO <sub>4</sub> )	max. 0.4
Total Sulfur (as SO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
6162.0500	500 ml	6
6162.4000	4 l Glass	4

(Assay about 14.5N).

Assay value tends to be less than reported due to vapor loss, especially on opening container.

## Ammonium Hydroxide 29% CMOS, Finyte, Finyte-1, Ultryte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)



# HPLC solvents and reagents

## Liquid Chromatography (HPLC)

### Fields of application for

#### J.T. Baker HPLC solvents

- Pharmaceutical / vitamins
- Food / drinks / beverages / flavours / wine
- Water / environment
- Petrochemistry
- Biology / biochemistry
- Cosmetics
- Paints / lacquers / solvents
- Other chemical industries

### We offer a complete product line:

- LC/MS solvents and reagents
- HPLC solvents
- HPLC acids
- HPLC buffer salts
- HPLC ion pair reagents

### Quality definition of HPLC Acetonitrile, Methanol and Water

In analytical and preparative HPLC, acetonitrile, methanol and water are the most common and most critical mobile phases. Mallinckrodt Baker has an extensive HPLC solvent and reagent program. As an example, acetonitrile and water qualities versus the most common applications are represented on the next page.



Acetonitrile HPLC qualities versus applications	Preparative HPLC	Isocratic Grade HPLC	Far UV HPLC	Gradient elution 254 nm	Gradient elution 210 nm	Protein profiling	Pesticide Analysis	PAH analysis	Proteomics and LC/MS application
9821 LC/MS Grade									
9017 Ultra Gradient Grade									
9012 Far UV/Gradient Grade									
8275 Isocratic Grade									

Methanol HPLC qualities versus applications	Preparative HPLC	Isocratic Grade HPLC	Gradient elution 254 nm	Proteomics and LC/MS application
9822 LC/MS Grade				
8402 Gradient Grade				
8404 Isocratic Grade				

Water HPLC qualities versus applications	Preparative HPLC	Isocratic Grade HPLC	Gradient elution 254 nm	Gradient elution 210 nm	Proteomics and LC/MS application
9823 LC/MS Grade					
4218 Gradient Grade					

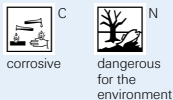
Check our extensive BAKER ANALYZED HPLC and LC/MS solvent and reagent program at [www.jtbaker.com](http://www.jtbaker.com)

## Ammonium Hydroxide

6005 28-30% / 'BAKER ANALYZED' / ACS

▶ NH<sub>4</sub>OH

**M** = 35.05 g/mol  
**1 l** = 0.90 kg  
**CAS NO.** 1336-21-6  
**EINECS** 215-647-6  
**NC CODE** 2814 20 00  
**EC NO.** 7 001 01 2  
**UN/ID NO.** 2672  
**ADR/RID** 8 C5  
**IMDG** 8/III  
**R:** 34-50  
**S:** 26-36/37/39-45-61



### Exceeds ACS Specifications

Assay (as NH <sub>3</sub> ) (acidimetric)	28.0-30.0%
Appearance	passes test
Carbon Dioxide (CO <sub>2</sub> )	max. 0.002%
Chloride (Cl)	max. 0.5 ppm
Color (APHA)	max. 5
Residue after Ignition	max. 0.001%
Specific Gravity at 60°/60°F	0.896-0.902
Substances Reducing KMnO <sub>4</sub>	passes test

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.2
Arsenic and Antimony (as As)	max. 3
Barium (Ba)	max. 0.3
Boron (B)	max. 0.05
Chromium (Cr)	max. 0.1
Copper (Cu)	max. 0.1
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.2
Magnesium (Mg)	max. 0.2
Manganese (Mn)	max. 0.1
Nickel (Ni)	max. 0.1
Nitrate (NO <sub>3</sub> )	max. 2
Phosphate (PO <sub>4</sub> )	max. 0.4
Sulfate (SO <sub>4</sub> )	max. 2
Tin (Sn)	max. 0.1
Titanium (Ti)	max. 0.1
Zinc (Zn)	max. 0.1

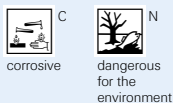
PRODUCT NO.	PACKING	CONT. BOX
6005.1000	1 l	6
6005.2500	2.5 l	4

## Ammonium Hydroxide

6051 25% / 'BAKER ANALYZED'

▶ NH<sub>4</sub>OH

**M** = 35.05 g/mol  
**1 l** = 0.91 kg  
**CAS NO.** 1336-21-6  
**EINECS** 215-647-6  
**NC CODE** 2814 20 00  
**EC NO.** 7 001 01 2  
**UN/ID NO.** 2672  
**ADR/RID** 8 C5  
**IMDG** 8/III  
**R:** 34-50  
**S:** 26-36/37/39-45-61



Assay (NH <sub>3</sub> )	25.0-26.0%
Carbon Dioxide (CO <sub>2</sub> )	max. 0.003%
Chloride (Cl)	max. 0.5 ppm
Phosphate (PO <sub>4</sub> )	max. 1 ppm
Residue after Ignition	max. 0.003%
Substances Reducing KMnO <sub>4</sub>	passes test
Total Sulfur (as SO <sub>4</sub> )	max. 5 ppm

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.1
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6051.1000	1 l	6
6051.2500	2.5 l	4
6051.9025	25 l	

## Ammonium Hydroxide 25% MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Ammonium Hydroxide

20% / ULTREX II Ultrapure Reagent

4807

▶ NH<sub>4</sub>OH

**M** = 35.05 g/mol

**CAS NO.** 1336-21-6

**EINECS** 215-647-6

**NC CODE** 2814 20 00

**EC NO.** 7 001 01 2

**UN/ID NO.** 2672

**ADR/RID** 8 C5

**IMDG** 8/III

**R:** 34

**S:** 20-26-36/37/39-45



corrosive

**Certificate Provided Reporting Actual Lot Analysis**

Assay (NH<sub>3</sub>) 20-22%

**Trace Impurities (in ppt) (pg/g):**

Aluminium (Al)	max. 20
Antimony (Sb)	max. 10
Arsenic (As)	max. 10
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 10
Erbium (Er)	max. 10
Europium (Eu)	max. 10
Gadolinium (Gd)	max. 10
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 10
Hafnium (Hf)	act. value reported
Holmium (Ho)	max. 10
Indium (In)	max. 10
Iron (Fe)	max. 20
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 20
Manganese (Mn)	max. 10
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 10
Nickel (Ni)	max. 10
Niobium (Nb)	max. 10
Palladium (Pd)	act. value reported
Platinum (Pt)	act. value reported
Potassium (K)	max. 20
Praseodymium (Pr)	max. 10

Rhenium (Re)	act. value reported
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	act. value reported
Samarium (Sm)	max. 10
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 20
Strontium (Sr)	max. 10
Tellurium (Te)	max. 10
Terbium (Tb)	max. 10
Thallium (Tl)	max. 10
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 10
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Uranium (U)	max. 10
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 10
Yttrium (Y)	act. value reported
Zinc (Zn)	max. 10
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
4807.0490	490 ml PE	

### Ammonium Hydroxide Solution

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Ammonium Iron(III) Citrate

'BAKER'

1110

**CAS NO.** 1185-57-5

**EINECS** 214-686-6

**NC CODE** 2918 15 00

Assay (as Fe) 14.5-16.0%

PRODUCT NO.	PACKING	CONT. BOX
1110.1000	1 kg	
1110.9050	50 kg	

Green.

### Ammonium Iron (III) Citrate, brown

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

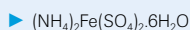
### Ammonium Iron (III) Citrate, green

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ammonium Iron (II) Sulfate Hexahydrate

0124 'BAKER ANALYZED' / ACS



**M** = 392.14 g/mol  
**CAS NO.** 7783-85-9  
**EINECS** 233-151-8  
**NC CODE** 2842 90 90

**Exceeds ACS Specifications. Meets Reagents**

**Specifications for testing USP/NF monographs**

Assay (by $\text{KMnO}_4$ titrn.)	98.5-101.5%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.003%
Ferric Iron ( $\text{Fe}^{3+}$ )	max. 0.01%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.002%
Manganese (Mn)	max. 0.01%
pH of 5% Solution at 25°C	3.0-5.0
Phosphate ( $\text{PO}_4$ )	max. 0.003%
Potassium (K)	max. 0.002%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.003%

PRODUCT NO.	PACKING	CONT. BOX
0124.0250	250 g	
0124.1000	1 kg	6

## Ammonium Iron(III) Sulfate Dodecahydrate

0118 'BAKER ANALYZED' / ACS



**M** = 482.19 g/mol  
**CAS NO.** 7783-83-7  
**EINECS** 233-382-4  
**NC CODE** 2833 30 00

**Meets ACS Specifications**

Assay (by Iodometry)	98.5-102.0%
Appearance	pale violet crystals
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.003%
Ferrous Iron ( $\text{Fe}^{++}$ )	passes test
Insoluble Matter	max. 0.01%
Nitrate ( $\text{NO}_3$ )	max. 0.01%
Substances not Precipitated by $\text{NH}_4\text{OH}$	max. 0.05%
Zinc (Zn)	max. 0.003%

PRODUCT NO.	PACKING	CONT. BOX
0118.0100	100 g	
0118.1000	1 kg	

## Ammonium Metavanadate

1010 Powder / 'BAKER ANALYZED' / ACS



**M** = 116.98 g/mol  
**CAS NO.** 7803-55-6  
**EINECS** 232-261-3  
**NC CODE** 2841 90 30  
**UN/ID NO.** 2859  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 25-36/37/38  
**S:** 37-45

**Meets ACS Specifications. Meets Reagent**

**Specifications for testing USP/NF monographs**

Assay	min. 99.0%
Appearance	passes test
Carbonate ( $\text{CO}_3$ )	passes test
Chloride (Cl)	max. 0.2%
Solubility in Ammonium Hydroxide	passes test
Sulfate ( $\text{SO}_4$ )	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1010.0125	125 g	

## ▶ Ammonium Molybdate

See Ammonium Heptamolybdate Tetrahydrate

## ▶ Ammonium Monovanadate

See Ammonium Metavanadate

Certificates of Analysis are available  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Ammonium Nitrate

'BAKER ANALYZED' / ACS

0025

▶  $\text{NH}_4\text{NO}_3$ 

**M** = 80.04 g/mol  
**CAS NO.** 6484-52-2  
**EINECS** 229-347-8  
**NC CODE** 3102 30 90  
**UN/ID NO.** 1942  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 8-9  
**S:** 15-16-41

**Exceeds ACS Specifications. Meets Reagents****Specifications for testing USP/NF monographs**

Assay	min. 99.5%
Insoluble Matter	max. 0.005%
Nitrite ( $\text{NO}_2$ )	passes test
pH of 5% Solution at 25°C	4.5-6.0
Residue after Ignition	max. 0.01%
Sulfate ( $\text{SO}_4$ )	max. 0.002%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Phosphate ( $\text{PO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
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0025.0100	100 g	
0025.1000	1 kg	

## Ammonium Peroxodisulfate

'BAKER ANALYZED' / ACS

0028

▶  $(\text{NH}_4)_2\text{S}_2\text{O}_8$ 

**M** = 228.20 g/mol  
**CAS NO.** 7727-54-0  
**EINECS** 231-786-5  
**NC CODE** 2833 40 00  
**EC NO.** 16 060 00 6  
**UN/ID NO.** 1444  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 22-36/37/38-42/43-8  
**S:** 22-24-26-37

**Meets ACS Specifications**

Assay	min. 98.0%
Chloride and Chlorate (as Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.05%
Titration Free Acid (meq/g)	max. 0.04

**Trace Impurities (in ppm):**

Manganese (Mn)	max. 0.5
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PRODUCT NO.	PACKING	CONT. BOX
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0028.1000	1 kg	6
0028.5000	5 kg	

## Ammonium Peroxodisulfate

'BAKER'

1899

▶  $(\text{NH}_4)_2\text{S}_2\text{O}_8$ 

**M** = 228.20 g/mol  
**CAS NO.** 7727-54-0  
**EINECS** 231-786-5  
**NC CODE** 2833 40 00  
**EC NO.** 16 060 00 6  
**UN/ID NO.** 1444  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 22-36/37/38-42/43-8  
**S:** 22-24-26-37



Assay	min. 98.0%
Chloride and Chlorate (as Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.003%
Iron (Fe)	max. 0.003%

**Trace Impurities (in ppm):**

Manganese (Mn)	max. 3
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PRODUCT NO.	PACKING	CONT. BOX
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1899.9050	50 kg	
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## Ammonium Persulfate

See Ammonium Peroxodisulfate

## Ammonium Phosphate, Dibasic

See Ammonium Hydrogen Phosphate

## Ammonium Phosphate, Monobasic

See Ammonium Dihydrogen Phosphate

## Ammonium Purpurate

See Murexide

## Ammonium Reineckate

See Reinecke Salt

## Ammonium Rhodanide

See Ammonium Thiocyanate

## Ammonium Sulfamate

1011 'BAKER ANALYZED' / ACS

▶  $\text{NH}_2\text{SO}_2\text{NH}_4$

M = 114.12 g/mol

CAS NO. 7773-06-0

EINECS 231-871-7

NC CODE 2842 90 90

### Meets ACS Specifications. Meets Reagent

#### Specifications for testing USP/NF monographs

Assay	min. 98.0%
Insoluble Matter	max. 0.02%
Melting Range	max. 2.0°C
Recorded Melting Point	133.0°C
Residue after Ignition	max. 0.10%

#### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
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PRODUCT NO.	PACKING	CONT. BOX
1011.0500	500 g	

## Ammonium Sulfate

4027 'BAKER ULTRAPURE BIOAGENT'

▶  $(\text{NH}_4)_2\text{SO}_4$

M = 132.14 g/mol

CAS NO. 7783-20-2

EINECS 231-984-1

NC CODE 3102 21 00

Assay	min. 99.5%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	max. 6.0
Protease Activity	none detected
Residue after Ignition	max. 0.005%
RNase Activity	none detected
Solution Test	passes test

#### Absorbance of a 1 M Solution, Maximum (1-cm path vs water):

at 260 nm	0.04
at 280 nm	0.04

#### Trace Impurities (in ppm):

Arsenic (As)	max. 0.2
Cadmium (Cd)	max. 2
Calcium (Ca)	max. 2
Chloride (Cl)	max. 3
Copper (Cu)	max. 0.2
Iron (Fe)	max. 1
Lead (Pb)	max. 0.1
Lithium (Li)	max. 2
Magnesium (Mg)	max. 2
Manganese (Mn)	max. 0.6
Nitrate ( $\text{NO}_3$ )	max. 10
Phosphate ( $\text{PO}_4$ )	max. 3
Potassium (K)	max. 2
Zinc (Zn)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
4027.1000	1 kg	
4027.5000	5 kg	
4027.9012	12 kg	

For Protein Precipitation and Liquid chromatography.

## Ammonium Sulfate

0032 'BAKER ANALYZED' / ACS

▶  $(\text{NH}_4)_2\text{SO}_4$

M = 132.14 g/mol

CAS NO. 7783-20-2

EINECS 231-984-1

NC CODE 3102 21 00

### Meets ACS Specifications

Assay (by formal method)	min. 99.0%
Insoluble Matter	max. 0.005%
Nitrate ( $\text{NO}_3$ )	max. 0.001%
pH of 5% Solution at 25°C	5.0-6.0
Residue after Ignition	max. 0.005%

#### Trace Impurities (in ppm):

Arsenic (As)	max. 0.3
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate ( $\text{PO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0032.1000	1 kg	6
0032.5000	5 kg	4
0032.9025BB	25 kg Bag-in-Box	
0032.9050	50 kg	

## Ammonium Sulfate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ammonium Sulfide

20% / 'BAKER ANALYZED'

7003

▶ (NH<sub>4</sub>)<sub>2</sub>S

**M** = 68.14 g/mol  
**1 l** = 1.00 kg  
**FLASHPOINT** 15 °C  
**CAS NO.** 12135-76-1  
**EINECS** 235-223-4  
**NC CODE** 2830 90 80  
**UN/ID NO.** 2683  
**ADR/RID** 8 CFT  
**IMDG** 8/II  
**R:** 11-31-34  
**S:** 16-23-26-36/37/39-45



corrosive



highly flammable

Assay	min. 20.0%
Calcium (Ca)	max. 0.003%
Carbonate (CO <sub>3</sub> )	max. 0.005%
Chloride (Cl)	max. 0.05%
Potassium (K)	max. 0.001%
Residue after Ignition	max. 0.05%
Sodium (Na)	max. 0.005%

**Trace Impurities (in ppm):**

Copper (Cu)	max. 5
Iron (Fe)	max. 5
Magnesium (Mg)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7003.1000	1 l	

## Ammonium Thiocyanate

'BAKER ANALYZED' / ACS

0034

▶ NH<sub>4</sub>SCN

**M** = 76.12 g/mol  
**CAS NO.** 1762-95-4  
**EINECS** 217-175-6  
**NC CODE** 2838 00 00  
**EC NO.** 615 004 00 3  
**R:** 20/21/22-32  
**S:** 13-2



harmful

**Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs**

Assay (argentometric titrn.)	min. 97.5%
Appearance	passes test
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Iodine-consuming Substances (as Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) (meq/g)	max. 0.004
pH of 5% Solution at 25°C	4.5-6.0
Residue after Ignition	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.005%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0034.0100	100 g	
0034.1000	1 kg	

## Ammonium Thiocyanate

'BAKER'

2662

▶ NH<sub>4</sub>SCN

**M** = 76.12 g/mol  
**CAS NO.** 1762-95-4  
**EINECS** 217-175-6  
**NC CODE** 2838 00 00  
**EC NO.** 615 004 00 3  
**R:** 20/21/22-32  
**S:** 13-2



harmful

Assay	min. 99.0%
Iron (Fe)	max. 3 ppm
pH of 5% Solution at 25°C	4.0-6.0

PRODUCT NO.	PACKING	CONT. BOX
2662.9025	25 kg	

## Ammonium Thiocyanate

0.1 mol/l / 'BAKER ANALYZED'

7122

▶ NH<sub>4</sub>SCN

**M** = 76.12 g/mol  
**CAS NO.** 1762-95-4  
**EINECS** 217-175-6  
**NC CODE** 2838 00 00

Titer (mol/l) 0.0995-0.1005

PRODUCT NO.	PACKING	CONT. BOX
7122.1000	1 l	

Volumetric Solution, ready for use.

## Ammonium Thiocyanate

0.1 mol/l / DILUT-IT

4650

▶ NH<sub>4</sub>SCN

**M** = 76.12 g/mol  
**CAS NO.** 1762-95-4  
**EINECS** 217-175-6  
**NC CODE** 2838 00 00

PRODUCT NO.	PACKING	CONT. BOX
4650	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Ammoniummeta-Vanadate

See Ammonium Metavanadate

### n-Amyl Alcohol

8009 'BAKER ANALYZED'

<p>▶ <math>\text{CH}_3(\text{CH}_2)_4\text{OH}</math></p> <p><b>M</b> = 88.15 g/mol</p> <p><b>1 l</b> = 0.82 kg</p> <p><b>FLASHPOINT</b> 33 °C</p> <p><b>CAS NO.</b> 71-41-0</p> <p><b>EINECS</b> 200-752-1</p> <p><b>NC CODE</b> 2905 15 00</p> <p><b>EC NO.</b> 603 006 00 7</p> <p><b>UN/ID NO.</b> 1105</p> <p><b>ADR/RID</b> 3 F1</p> <p><b>IMDG</b> 3/III</p> <p><b>R:</b> 10-20</p> <p><b>S:</b> 24/25</p> <p> Xn harmful</p>	<table border="0"> <tr> <td>Assay (by GC)</td> <td>min. 98%</td> </tr> <tr> <td>Acids and Esters (as Amyl Acetate)</td> <td>max. 0.01%</td> </tr> <tr> <td>Aldehydes</td> <td>passes test</td> </tr> <tr> <td>Boiling Range</td> <td>135-138°C</td> </tr> <tr> <td>Color (APHA)</td> <td>max. 5</td> </tr> <tr> <td>Residue after Evaporation</td> <td>max. 0.003%</td> </tr> <tr> <td>Water (H<sub>2</sub>O)</td> <td>max. 0.2%</td> </tr> </table>	Assay (by GC)	min. 98%	Acids and Esters (as Amyl Acetate)	max. 0.01%	Aldehydes	passes test	Boiling Range	135-138°C	Color (APHA)	max. 5	Residue after Evaporation	max. 0.003%	Water (H <sub>2</sub> O)	max. 0.2%	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>8009.1000</td> <td>1 l</td> <td>6</td> </tr> <tr> <td>8009.9025</td> <td>25 l</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	8009.1000	1 l	6	8009.9025	25 l	
Assay (by GC)	min. 98%																								
Acids and Esters (as Amyl Acetate)	max. 0.01%																								
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PRODUCT NO.	PACKING	CONT. BOX																							
8009.1000	1 l	6																							
8009.9025	25 l																								

### tert-Amyl Alcohol

8012 'BAKER ANALYZED'

<p>▶ <math>\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)_2\text{OH}</math></p> <p><b>M</b> = 88.15 g/mol</p> <p><b>1 l</b> = 0.81 kg</p> <p><b>FLASHPOINT</b> 19 °C</p> <p><b>CAS NO.</b> 75-85-4</p> <p><b>EINECS</b> 200-908-9</p> <p><b>NC CODE</b> 2905 15 00</p> <p><b>EC NO.</b> 603 007 00 2</p> <p><b>UN/ID NO.</b> 1105</p> <p><b>ADR/RID</b> 3 F1</p> <p><b>IMDG</b> 3/II</p> <p><b>R:</b> 11-20</p> <p><b>S:</b> 16-24/25-9</p> <p> Xn harmful</p> <p> F highly flammable</p>	<table border="0"> <tr> <td>Assay (by GC)</td> <td>min. 99.0%</td> </tr> <tr> <td>Acids and Esters (as Amyl Acetate)</td> <td>max. 0.06%</td> </tr> <tr> <td>Aldehydes</td> <td>passes test</td> </tr> <tr> <td>Residue after Evaporation</td> <td>max. 0.004%</td> </tr> </table>	Assay (by GC)	min. 99.0%	Acids and Esters (as Amyl Acetate)	max. 0.06%	Aldehydes	passes test	Residue after Evaporation	max. 0.004%	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>8012.0100</td> <td>100 ml</td> <td></td> </tr> <tr> <td>8012.1000</td> <td>1 l</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	8012.0100	100 ml		8012.1000	1 l	
Assay (by GC)	min. 99.0%																		
Acids and Esters (as Amyl Acetate)	max. 0.06%																		
Aldehydes	passes test																		
Residue after Evaporation	max. 0.004%																		
PRODUCT NO.	PACKING	CONT. BOX																	
8012.0100	100 ml																		
8012.1000	1 l																		

### Anhydron

0035 'BAKER ANALYZED' / magnesium perchlorate for drying / ACS

<p>▶ <math>\text{Mg}(\text{ClO}_4)_2</math></p> <p><b>M</b> = 223.21 g/mol</p> <p><b>CAS NO.</b> 10034-81-8</p> <p><b>EINECS</b> 233-108-3</p> <p><b>NC CODE</b> 2829 90 10</p> <p><b>UN/ID NO.</b> 1475</p> <p><b>ADR/RID</b> 5.1 O2</p> <p><b>IMDG</b> 5.1/II</p> <p><b>R:</b> 36/37/38-9</p> <p><b>S:</b> 17-22-27</p> <p> Xi irritant</p> <p> O oxidizing</p>	<p><b>Meets ACS Specifications</b></p> <table border="0"> <tr> <td>Loss on Drying at 190°C</td> <td>max. 8%</td> </tr> <tr> <td>Suitability for Moisture Absorption</td> <td>passes test</td> </tr> <tr> <td>Titration Base (meq/g)</td> <td>max. 0.025</td> </tr> <tr> <td>Titration Free Acid (meq/g)</td> <td>max. 0.005</td> </tr> </table>	Loss on Drying at 190°C	max. 8%	Suitability for Moisture Absorption	passes test	Titration Base (meq/g)	max. 0.025	Titration Free Acid (meq/g)	max. 0.005	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>0035.0500</td> <td>500 g</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	0035.0500	500 g	
Loss on Drying at 190°C	max. 8%															
Suitability for Moisture Absorption	passes test															
Titration Base (meq/g)	max. 0.025															
Titration Free Acid (meq/g)	max. 0.005															
PRODUCT NO.	PACKING	CONT. BOX														
0035.0500	500 g															

### Anhydrous Solvents

See for detailed information section Solvent applications, page 22

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



## Aniline

'BAKER ANALYZED' / ACS

7004

▶  $C_6H_5NH_2$ 

M = 93.13 g/mol

1 l = 1.02 kg

FLASHPOINT 70 °C

CAS NO. 62-53-3

EINECS 200-539-3

NC CODE 2921 41 00

EC NO. 612 008 00 7

UN/ID NO. 1547

ADR/RID 6.1 T1

IMDG 6.1/II

R: 23/24/25-40-41-43-48/23/24/25-50-68

S: 26-27-36/37/39-45-46-61-63

dangerous  
for the  
environment

toxic

## Meets ACS Specifications. Meets Reagent

## Specifications for testing USP/NF monographs

Assay (by GC) (corrected for water) min. 99.0%

Chlorobenzene ( $C_6H_5Cl$ ) max. 0.01%

Color (APHA) max. 250

Hydrocarbons passes test

Nitrobenzene ( $C_6H_5NO_2$ ) passes test

Residue after Ignition max. 0.005%

## Product Information (not specifications):

Boiling Point (typical) 184.4°C

PRODUCT NO.	PACKING	CONT. BOX
7004.0250	250 ml	
7004.1000	1 l	

NOTE: This product darkens to a reddish-brown color on storage.

## Aniline

'BAKER'

7005

▶  $C_6H_5NH_2$ 

M = 93.13 g/mol

1 l = 1.02 kg

FLASHPOINT 70 °C

CAS NO. 62-53-3

EINECS 200-539-3

NC CODE 2921 41 00

EC NO. 612 008 00 7

UN/ID NO. 1547

ADR/RID 6.1 T1

IMDG 6.1/II

R: 23/24/25-40-41-43-48/23/24/25-50-68

S: 26-27-36/37/39-45-46-61-63

dangerous  
for the  
environment

toxic

Appearance passes test

Boiling Point 183-186°C

PRODUCT NO.	PACKING	CONT. BOX
7005.1000	1 l	

Stored protected from light.

## Anisole

'BAKER'

8013

▶  $C_6H_5OCH_3$ 

M = 108.14 g/mol

1 l = 0.99 kg

FLASHPOINT 43 °C

CAS NO. 100-66-3

EINECS 202-876-1

NC CODE 2909 30 90

UN/ID NO. 2222

ADR/RID 3 F1

IMDG 3.3/III

R: 10-36/37/38

S: 16-26-37/39



irritant

Assay (by GC) min. 99.0%

Boiling Point 152-154°C

Phenol ( $C_6H_5OH$ ) max. 0.2%Water ( $H_2O$ ) max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
8013.0500	500 ml	

## Anthrone

1231 'BAKER ANALYZED' / ACS



**M** = 194.24 g/mol  
**CAS NO.** 90-44-8  
**EINECS** 201-994-0  
**NC CODE** 2914 39 00

### Meets ACS Specifications

Absorbance of reagent solution passes test  
 Appearance passes test  
 Melting range, within a 5°C range, including 156°C passes test  
 Sensitivity to Carbohydrates passes test  
 Solubility in Ethyl Acetate passes test

PRODUCT NO.	PACKING	CONT. BOX
1231.0025	25 g Glass	

## Antifoam B

7356 silicone emulsion

**11** = 1.00 kg  
**NC CODE** 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
7356.0100	100 ml	
7356.0500	500 ml	

## Antimony 1000 µg/ml

5703 (Matrix: 2% nitric acid plus a trace of tartaric acid) / 'BAKER INSTRALYZED' / Plasma Standard



**M** = 121.74 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-28-45



### Certificate Provided Reporting Actual Lot Analysis

Antimony (Sb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5703.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Antimony 1000 µg/ml

6968 (Matrix: 20% hydrochloric acid) / 'BAKER INSTRALYZED' / Atomic Absorption Standard

**M** = 121.74 g/mol  
**CAS NO.** 28300-74-5  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



Antimony (Sb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6968.0100	100 ml	
6968.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Antimony 1000 µg/ml

6802 'BAKER ANALYZED' / Atomic Absorption Standard



**M** = 121.74 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 36/37/38  
**S:** 26-28-45



Antimony (Sb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6802.0100	100 ml	
6802.0500	500 ml	

Antimony trichloride in hydrochloric acid 5 mol/l.

## Antimony 10000 µg/ml

(Matrix: 2% nitric acid plus a trace of tartaric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5717

▶ Sb

**M** = 121.74 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-28-45



irritant

### Certificate Provided Reporting Actual Lot Analysis

Antimony (Sb) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5717.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Antimony Potassium Tartrate, Trihydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Antimony Trichloride

'BAKER ANALYZED' / ACS

0037

▶ SbCl<sub>3</sub>

**M** = 228.11 g/mol  
**CAS NO.** 10025-91-9  
**EINECS** 233-047-2  
**NC CODE** 2827 39 80  
**EC NO.** 51 001 00 8  
**UN/ID NO.** 1733  
**ADR/RID** 8 C2  
**IMDG** 8/II  
**R**: 34-51/53  
**S**: 26-45-61



corrosive



dangerous for the environment

### Meets ACS Specifications

Assay	min. 99.0%
Arsenic (As)	max. 0.02%
Calcium (Ca)	max. 0.005%
Copper (Cu)	max. 0.001%
Insoluble in Chloroform	max. 0.05%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.005%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0037.0100	100 g	

## Antimony(III) Chloride

See Antimony Trichloride

## Apiezon Grease M

'BAKER' / for gaschromatography

4149

NC CODE	PRODUCT NO.	PACKING	CONT. BOX
2710 19 99	4149.0025	25 g Glass	

## L-Arginine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## L-Arginine Hydrochloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Arsenic 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5704

▶ As

**M** = 74.92 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 33 001 00 0  
**R**: 22-36/38-45  
**S**: 20-26-36/37/39-53



toxic

### Certificate Provided Reporting Actual Lot Analysis

Arsenic (As) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5704.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

# Arsen

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## Arsenic 1000 µg/ml

6919 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ As	Arsenic (As)	998-1002 µg/ml
<b>M</b> = 74.92 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 33 001 00 0		
<b>R:</b> 22-36/38-45		
<b>S:</b> 20-26-28-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
6919.0100	100 ml	
6919.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Arsenic 1000 µg/ml

6803 'BAKER ANALYZED' / Atomic Absorption Standard

▶ As	Arsenic (As)	998-1002 µg/ml
<b>M</b> = 74.92 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>R:</b> 22-36/38-45		
<b>S:</b> 20-26-36/37/39-45-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
6803.0100	100 ml	
6803.0500	500 ml	

Arsenic trioxide in nitric acid 0.5 mol/l.

## Arsenic 10000 µg/ml

5718 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ As	<b>Certificate Provided Reporting Actual Lot Analysis</b> Arsenic (As)	9980-10020 µg/ml
<b>M</b> = 74.92 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 33 001 00 0		
<b>R:</b> 25-36/38-45-52/53		
<b>S:</b> 20-26-36/37/39-45-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
5718.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## ▶ Ascorbic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## L(+)-Ascorbic Acid

1018 'BAKER ANALYZED' Biochemical

▶ HOCH <sub>2</sub> CH(OH)CHC(OH):C(OH)COO	Assay (dried)	min. 99.5%
<b>M</b> = 176.13 g/mol	Heavy Metals (as Pb)	max. 0.001%
<b>CAS NO.</b> 50-81-7	Iron (Fe)	max. 5
<b>EINECS</b> 200-066-2	Loss on Drying at 105°C	max. 0.1%
<b>NC CODE</b> 2936 27 00	Residue on Ignition	max. 0.05%
	Specific Rotation [α] <sub>D</sub> <sup>20</sup> (dried basis), c = 10 in water	+20.5° to +21.5°
	Water Insoluble Material	passes test

PRODUCT NO.	PACKING	CONT. BOX
1018.0100	100 g	6
1018.0500	500 g	6

## L(+)-Ascorbic Acid

1914 'BAKER'

▶ HOCH <sub>2</sub> CH(OH)CHC(OH):C(OH)COO	Appearance of solution	passes test
<b>M</b> = 176.13 g/mol	Assay	99.0 - 100.5%
<b>CAS NO.</b> 50-81-7	Copper (Cu)	max. 5 ppm
<b>EINECS</b> 200-066-2	Heavy Metals (as Pb)	max. 10 ppm
<b>NC CODE</b> 2936 27 00	Identification	passes test
	Iron (Fe)	max. 2 ppm
	Oxalic acid	passes test
	Specific Optical Rotation	+20.5 - +21.5°
	Sulfated Ash	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1914.0100	100 g	6
1914.0500	500 g	6

Stored in an airtight non-metallic container.  
Stored protected from light.

## ▶ L-Asparagine, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**DL-Aspartic Acid**

'BAKER ANALYZED' Biochemical

1546

▶  $\text{HOCOCH}(\text{NH}_2)\text{CH}_2\text{COOH}$ **M** = 133.10 g/mol**CAS NO.** 617-45-8**EINECS** 210-513-3**NC CODE** 2922 49 95

Assay min. 99%

Heavy Metals (as Pb) max. 0.002%

Homogeneity (by TLC) passes test

Loss on Drying at 105°C max. 0.3%

Residue after Ignition max. 0.3%

**Trace Impurities (in ppm):**

Arsenic (As) max. 3

PRODUCT NO.	PACKING	CONT. BOX
1546.0500	500 g	

**Auric Chloride**

See Tetrachloroauric(III) Acid

**BAKER DUAL-TINT**

pH 1-12 / pH Indicator Paper

2867-01

**Product Information (not specifications):**

pH Gradation 1

PRODUCT NO.	PACKING	CONT. BOX
2867-01	Dispenser contains 5m	

For Refill see PN 2873-01.

**BAKER DUAL-TINT**

pH 1-12 / pH Indicator Paper

2873-01

**Product Information (not specifications):**

pH Gradation 1

PRODUCT NO.	PACKING	CONT. BOX
2873-01	Refill contains 3x5m	

Refill for PN 2867-01.

**BAKER DUAL-TINT**

pH 1.0-4.3 / pH Indicator Paper

2878-01

**Product Information (not specifications):**

pH Gradation 0.3

PRODUCT NO.	PACKING	CONT. BOX
2878-01	Dispenser contains 5m	

For Refill see PN 2879-01.

**BAKER DUAL-TINT**

pH 1.0-4.3 / pH Indicator Paper

2879-01

**Product Information (not specifications):**

pH Gradation 0.3

PRODUCT NO.	PACKING	CONT. BOX
2879-01	Refill contains 3x5m	

Refill for PN 2878-01.

**BAKER DUAL-TINT**

pH 3.5-6.8 / pH Indicator Paper

2871-01

**Product Information (not specifications):**

pH Gradation 0.3

PRODUCT NO.	PACKING	CONT. BOX
2871-01	Dispenser contains 5m	

For Refill see PN 2876-01.

**BAKER DUAL-TINT**

pH 3.5-6.8 / pH Indicator Paper

2876-01

**Product Information (not specifications):**

pH Gradation 0.3

PRODUCT NO.	PACKING	CONT. BOX
2876-01	Refill contains 3x5m	

Refill for PN 2871-01.

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**2869-01** **BAKER DUAL-TINT**  
pH 5.0-8.0 / pH Indicator Paper

Product Information (not specifications):		PRODUCT NO.	PACKING	CONT. BOX
pH Gradation	0.3	2869-01	Dispenser contains 5m	
For Refill see PN 2875-01.				

**2875-01** **BAKER DUAL-TINT**  
pH 5.0-8.0 / pH Indicator Paper

Product Information (not specifications):		PRODUCT NO.	PACKING	CONT. BOX
pH Gradation	0.3	2875-01	Refill contains 3x5m	
Refill for PN 2869-01.				

**2868-01** **BAKER DUAL-TINT**  
pH 7.0-10.0 / pH Indicator Paper

Product Information (not specifications):		PRODUCT NO.	PACKING	CONT. BOX
pH Gradation	0.3	2868-01	Dispenser contains 5m	
For Refill see PN 2874-01.				

**2874-01** **BAKER DUAL-TINT**  
pH 7.0-10.0 / pH Indicator Paper

Product Information (not specifications):		PRODUCT NO.	PACKING	CONT. BOX
pH Gradation	0.3	2874-01	Refill contains 3x5m	
Refill for PN 2868-01.				

**2880-01** **BAKER DUAL-TINT**  
pH 9.5-14.0 / pH Indicator Paper

Product Information (not specifications):		PRODUCT NO.	PACKING	CONT. BOX
pH Gradation	0.5	2880-01	Dispenser contains 5m	
For Refill see PN 2881-01.				

**2881-01** **BAKER DUAL-TINT**  
pH 9.5-14.0 / pH Indicator Paper

Product Information (not specifications):		PRODUCT NO.	PACKING	CONT. BOX
pH Gradation	0.5	2881-01	Refill contains 3x5m	
Refill for PN 2880-01.				

**4408** **BAKER TESTSTRIPS for Ammonium (NH<sub>4</sub><sup>+</sup>)**  
Range: 0-400 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

PRODUCT NO.	PACKING	CONT. BOX
4408	1 box	
<p>Each plastic box contains 100 strips, 6x95 mm.            Gradations: 0-10-25-50-100-200-400 mg/l (ppm).            Kits include the necessary reagents for preparation and test strips for testing.            Test strips with color scale for quick and accurate determinations.</p>		

**BAKER TESTSTRIPS for Ascorbic Acid**

Range: 0-2000 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4409

PRODUCT NO.	PACKING	CONT. BOX
4409	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradation: 0-50-100-200-300-500-1000-2000 mg/l (ppm).  
 Test strips with color scale for quick and accurate determinations.

**BAKER TESTSTRIPS for Chromate (CrO<sub>4</sub><sup>2-</sup>)**

Range: 0-100 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4410

PRODUCT NO.	PACKING	CONT. BOX
4410	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradations: 0-3-10-30-100 mg/L (ppm).  
 Kits include the necessary reagents for preparation and test strips for testing.  
 Test strips with color scale for quick and accurate determinations.

**BAKER TESTSTRIPS for Cobalt (Co<sup>2+</sup>)**

Range: 0-1000 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4411

PRODUCT NO.	PACKING	CONT. BOX
4411	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradations: 0-10-25-50-100-250-500-1000 mg/l (ppm).  
 Test strips with color scale for quick and accurate determinations.

**BAKER TESTSTRIPS for Copper (Cu<sup>2+</sup>)**

Range: 0-300 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4412

PRODUCT NO.	PACKING	CONT. BOX
4412	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradation: 0-10-30-100-300 mg/l (ppm).  
 Test strips with color scale for quick and accurate determinations.

**BAKER TESTSTRIPS for Iron (Fe<sup>2+</sup>)**

Range: 0-100 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4413

PRODUCT NO.	PACKING	CONT. BOX
4413	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradations: 0-2-5-10-25-50-100 mg/l (ppm).  
 Kits include the necessary reagents for preparation and test strips for testing.  
 Test strips with color scale for quick and accurate determinations.

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**4414** **BAKER TESTSTRIPS for Nickel (Ni<sup>2+</sup>)**  
Range: 0-1000 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

PRODUCT NO.	PACKING	CONT. BOX
4414	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
Gradations: 0-10-25-50-100-250-500-1000 mg/l (ppm).  
Test strips with color scale for quick and accurate determinations.

**4421** **BAKER TESTSTRIPS for Nitrate / Nitrite (NO<sub>3</sub><sup>-</sup>/NO<sub>2</sub><sup>-</sup>)**  
Range: 0-500 mg/l NO<sub>3</sub><sup>-</sup> (ppm) ; 0-80 mg/l NO<sub>2</sub><sup>-</sup> (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

PRODUCT NO.	PACKING	CONT. BOX
4421	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
Gradations (NO<sub>2</sub><sup>-</sup>): 0-1-5-10-20-40-80 mg/l (ppm).  
Gradations (NO<sub>3</sub><sup>-</sup>): 0-10-25-50-100-250-500 mg/l (ppm).  
Test strips with color scale for quick and accurate determinations.

**4415** **BAKER TESTSTRIPS for Nitrite (NO<sub>2</sub><sup>-</sup>)**  
Range: 0-80 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

PRODUCT NO.	PACKING	CONT. BOX
4415	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
Gradation: 0-1-5-10-20-40-80 mg/l (ppm).  
Test strips with color scale for quick and accurate determinations.

**4416** **BAKER TESTSTRIPS for Peroxide (H<sub>2</sub>O<sub>2</sub>)**  
Range: 0-100 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

PRODUCT NO.	PACKING	CONT. BOX
4416	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
Gradation: 0-1-3-10-30-100 mg/l (ppm).  
Test strips with color scale for quick and accurate determinations.

**4417** **BAKER TESTSTRIPS for Potassium (K<sup>+</sup>)**  
Range: 0-1500 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

PRODUCT NO.	PACKING	CONT. BOX
4417	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
Gradations: 0-200-400-700-1000-1500 mg/l (ppm).  
Kits include the necessary reagents for preparation and test strips for testing.  
Test strips with color scale for quick and accurate determinations.



**BAKER TESTSTRIPS for Sulfite (SO<sub>3</sub><sup>2-</sup>)**

Range: 0-1000 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4418

PRODUCT NO.	PACKING	CONT. BOX
4418	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradations: 0-10-25-50-100-250-500-1000 mg/l (ppm).  
 Test strips with color scale for quick and accurate determinations.

**BAKER TESTSTRIPS for Tin (Sn<sup>2+</sup>)**

Range: 0-500 mg/l (ppm) / Test Strips for Semi-Quantitative Determinations of Ions

4419

PRODUCT NO.	PACKING	CONT. BOX
4419	1 box	

Each plastic box contains 100 strips, 6x95 mm.  
 Gradations: 0-10-25-50-100-250-500 mg/l (ppm).  
 Test strips with color scale for quick and accurate determinations.

**BAKER TESTSTRIPS for Water Hardness**

Test Strips for Semi-Quantitative Determinations of Ions

4420

PRODUCT NO.	PACKING	CONT. BOX
4420	1 box	

(1°d = 17.8 mg/l CaCO<sub>3</sub>).  
 Each plastic box contains 100 strips, 6x95 mm.  
 Gradation (German Hardness): < 3 - > 5 - > 10 - > 15 - > 20 - > 25 °d.  
 Test strips with color scale for quick and accurate determinations.

**BakerClean**

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

**Baker-Clear**

'BAKER' / Cleaning solution for general purpose

7341

1 l = 0.95 kg  
 FLASHPOINT 79 °C  
 S: 35

PRODUCT NO.	PACKING	CONT. BOX
7341.1000	1 l	
7341.2500	2.5 l	

**Baker-Clear 12**

'BAKER' / Cleaning solution (pH 12) for general purpose

7340

NC CODE 3822 00 00  
 UN/ID NO. 1760  
 ADR/RID 8 C9  
 IMDG 8/III  
 R: 38-41  
 S: 26-37/39-60



PRODUCT NO.	PACKING	CONT. BOX
7340.5000	5 l Jerrycan	

Use a 2% dilution for general use, 5% for intensive use or 20% for a strong cleaning effect (dilute with water).

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4399

## BAKER-pHIX pH Papers with color scale

pH 1-12 / pH Test Strips with color scale (also suitable for colored solutions)

**Product Information (not specifications):**

pH Gradation 1

PRODUCT NO.	PACKING	CONT. BOX
4399	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

4400

## BAKER-pHIX pH Papers with color scale

pH 1.8-3.8 / pH Test Strips with color scale (also suitable for colored solutions)

pH Gradation 0.2/0.3

PRODUCT NO.	PACKING	CONT. BOX
4400	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

4401

## BAKER-pHIX pH Papers with color scale

pH 2.8-4.6 / pH Test Strips with color scale (also suitable for colored solutions)

**Product Information (not specifications):**

pH Gradation 0.2/0.3

PRODUCT NO.	PACKING	CONT. BOX
4401	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

4402

## BAKER-pHIX pH Papers with color scale

pH 3.8-5.5 / pH Test Strips with color scale (also suitable for colored solutions)

**Product Information (not specifications):**

pH Gradation 0.2/0.3

PRODUCT NO.	PACKING	CONT. BOX
4402	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

4403

## BAKER-pHIX pH Papers with color scale

pH 4.0-9.0 / pH Test Strips with color scale (also suitable for colored solutions)

**Product Information (not specifications):**

pH Gradation 0.5

PRODUCT NO.	PACKING	CONT. BOX
4403	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

*Innovation is principal to our business.*

**BAKER-pHIX pH Papers with color scale**

pH 5.2-6.8 / pH Test Strips with color scale (also suitable for colored solutions)

4404

**Product Information (not specifications):**

pH Gradation 0.2/0.3

PRODUCT NO.	PACKING	CONT. BOX
4404	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

**BAKER-pHIX pH Papers with color scale**

pH 6.0-8.1 / pH Test Strips with color scale (also suitable for colored solutions)

4405

**Product Information (not specifications):**

pH Gradation 0.3

PRODUCT NO.	PACKING	CONT. BOX
4405	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.  
pH Gradation of 0.3 units.

**BAKER-pHIX pH Papers with color scale**

pH 7.2-8.8 / pH Test Strips with color scale (also suitable for colored solutions)

4406

**Product Information (not specifications):**

pH Gradation 0.2/0.3

PRODUCT NO.	PACKING	CONT. BOX
4406	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

**BAKER-pHIX pH Papers with color scale**

pH 8.0-9.7 / pH Test Strips with color scale (also suitable for colored solutions)

4407

**Product Information (not specifications):**

pH Gradation 0.2/0.3

PRODUCT NO.	PACKING	CONT. BOX
4407	1 box	

Each plastic box contains 200 strips, 11x100 mm. Indicator dyes and color scale fixed onto a single strip, for quick and accurate readings without referring to a separate scale.

**BAKER-pHIX pH Indicator Sticks**

pH 0-14 / Non-bleeding Test Strips

4390

**Product Information (not specifications):**

pH Gradation 1

PRODUCT NO.	PACKING	CONT. BOX
4390	1 box	

Each plastic box contains 100 sticks, 6x85 mm. The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

4391

## BAKER-pHIX pH Indicator Sticks

pH 0.0-6.0 / Non-bleeding Test Strips

**Product Information (not specifications):**

pH Gradation 0.5

PRODUCT NO.	PACKING	CONT. BOX
4391	1 box	

Each plastic box contains 100 sticks, 6x85 mm.  
The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

4392

## BAKER-pHIX pH Indicator Sticks

pH 1.7-3.8 / Non-bleeding Test Strips

**Product Information (not specifications):**

pH Gradation 0.3

PRODUCT NO.	PACKING	CONT. BOX
4392	1 box	

Each plastic box contains 100 sticks, 6x85 mm.  
The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

4393

## BAKER-pHIX pH Indicator Sticks

pH 2.0-9.0 / Non-bleeding Test Strips

**Product Information (not specifications):**

pH Gradation 0.5

PRODUCT NO.	PACKING	CONT. BOX
4393	1 box	

Each plastic box contains 100 sticks, 6x85 mm.  
The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

4394

## BAKER-pHIX pH Indicator Sticks

pH 3.6-6.1 / Non-bleeding Test Strips

**Product Information (not specifications):**

pH Gradation 0.3/0.5

PRODUCT NO.	PACKING	CONT. BOX
4394	1 box	

Each plastic box contains 100 sticks, 6x85 mm.  
The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

4395

## BAKER-pHIX pH Indicator Sticks

pH 4.5-10.0 / Non-bleeding Test Strips

**Product Information (not specifications):**

pH Gradation 0.5

PRODUCT NO.	PACKING	CONT. BOX
4395	1 box	

Each plastic box contains 100 sticks, 6x85 mm.  
The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

**BAKER-pHIX pH Indicator Sticks**

pH 6.0-7.7 / Non-bleeding Test Strips

4396

**Product Information (not specifications):**

pH Gradation 0.3/0.4

PRODUCT NO.	PACKING	CONT. BOX
4396	1 box	

Each plastic box contains 100 sticks, 6x85 mm. The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

**BAKER-pHIX pH Indicator Sticks**

pH 7.0-14.0 / Non-bleeding Test Strips

4397

**Product Information (not specifications):**

pH Gradation 0.5

PRODUCT NO.	PACKING	CONT. BOX
4397	1 box	

Each plastic box contains 100 sticks, 6x85 mm. The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

**BAKER-pHIX pH Indicator Sticks**

pH 7.5-9.5 / Non-bleeding Test Strips

4398

**Product Information (not specifications):**

pH Gradation 0.2/0.4

PRODUCT NO.	PACKING	CONT. BOX
4398	1 box	

Each plastic box contains 100 sticks, 6x85 mm. The pHIX indicator dyes are chemically bound to the cellulose fibers, avoiding bleeding even in strong alkaline samples.

**Barbituric Acid, Anhydrous**

'BAKER'

1547

▶ NHCONHCOCH2CO

M = 128.09 g/mol

CAS NO. 67-52-7

EINECS 200-658-0

NC CODE 2933 54 00

Assay (acidimetric)	min. 99%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.002%
Residue after Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1547.0100	100 g	6

**Barium 1000 µg/ml**

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5705

▶ Ba

M = 137.33 g/mol

NC CODE 3822 00 00

EC NO. 7 004 00 1

R: 36/37/38

S: 26-28-45


**Certificate Provided Reporting Actual Lot Analysis**

Barium (Ba) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5705.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

*Innovation is principal to our business.*

# Bariu

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## Barium 1000 µg/ml

6920 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ba Barium (Ba) 998-1002 µg/ml  
**M** = 137.33 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



PRODUCT NO.	PACKING	CONT. BOX
6920.0100	100 ml	
6920.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Barium 1000 µg/ml

6804 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ba Barium (Ba) 998-1002 µg/ml  
**M** = 137.33 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



PRODUCT NO.	PACKING	CONT. BOX
6804.0100	100 ml	
6804.0500	500 ml	

Barium nitrate in nitric acid 0.5 mol/l.

## Barium 10000 µg/ml

5719 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ba *Certificate Provided Reporting Actual Lot Analysis*  
 Barium (Ba) 9980-10020 µg/ml  
**M** = 137.33 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 7 004 00 1  
**R**: 36/38  
**S**: 26-37



PRODUCT NO.	PACKING	CONT. BOX
5719.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Barium Chloride

7248 0.5 mol/l / 'BAKER ANALYZED'

▶ BaCl<sub>2</sub> Titer (mol/l) 0.495-0.505  
**M** = 208.25 g/mol  
**CAS NO.** 10326-27-9  
**NC CODE** 2827 39 80  
**EC NO.** 56 002 00 7  
**UN/ID NO.** 3287  
**ADR/RID** 6.1 T4  
**IMDG** 6.1/III  
**R**: 20/22  
**S**: 28



PRODUCT NO.	PACKING	CONT. BOX
7248.9010	10 l	

## Barium Chloride

7645 0.05 mol/l / 'BAKER ANALYZED'

▶ BaCl<sub>2</sub> Molarity (M) 0.0495-0.0505  
 pH at 20°C 2.95-3.05  
**M** = 208.25 g/mol  
**CAS NO.** 10326-27-9  
**NC CODE** 2827 39 80  
**UN/ID NO.** 3287  
**ADR/RID** 6.1 T4  
**IMDG** 6.1/III  
**R**: 20/22  
**S**: 36



PRODUCT NO.	PACKING	CONT. BOX
7645.1000	1 l	

## Barium Chloride Dihydrate

'BAKER ANALYZED' / ACS

0045

▶ BaCl<sub>2</sub>·2H<sub>2</sub>O

**M** = 244.28 g/mol  
**CAS NO.** 10326-27-9  
**EINECS** 233-788-1  
**NC CODE** 2827 39 80  
**EC NO.** 56 002 00 7  
**UN/ID NO.** 1564  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 20-25  
**S:** 45

**Exceeds ACS Specifications**

Assay	99.0 - 101.0%
Calcium (Ca)	max. 0.05%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 2 ppm
Loss on Drying at 150°C	14.0-16.0%
Oxidizing Substances (as NO <sub>3</sub> )	max. 0.005%
pH of 5% Solution at 25°C	5.2-8.2
Potassium (K)	max. 0.0025%
Sodium (Na)	max. 0.005%
Strontium (Sr)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0045.0100	100 g	
0045.1000	1 kg	6

## Barium Nitrate

'BAKER ANALYZED' / ACS

0052

▶ Ba(NO<sub>3</sub>)<sub>2</sub>

**M** = 261.35 g/mol  
**CAS NO.** 10022-31-8  
**EINECS** 233-020-5  
**NC CODE** 2834 29 20  
**EC NO.** 56 002 00 7  
**UN/ID NO.** 1446  
**ADR/RID** 5.1 OT2  
**IMDG** 5.1/II  
**R:** 20/22  
**S:** 28

**Exceeds ACS Specifications**

Assay	min. 99.0%
Calcium (Ca)	max. 0.05%
Insoluble Matter	max. 0.01%
pH of 5% Solution at 25°C	5.0-7.0
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Strontium (Sr)	max. 0.05%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0052.0500	500 g	
0052.9012PE	12 kg PE Pail	

## Barium Sulfate

'BAKER ANALYZED'

0053

▶ BaSO<sub>4</sub>

**M** = 233.40 g/mol  
**CAS NO.** 7727-43-7  
**EINECS** 231-784-4  
**NC CODE** 2833 27 00

Assay	min. 97.0%
Acidity (as H <sub>2</sub> SO <sub>4</sub> )	max. 0.01%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Water Soluble Salts	max. 0.02%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 1
--------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0053.0500	500 g	

## Barium Sulfate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Basic Fuchsin

See Diamond Fuchsin

## Bathophenanthroline

See 4,7-Diphenyl-1,10-phenanthroline

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Benzene

8014 'BAKER ANALYZED' / ACS

▶ C<sub>6</sub>H<sub>6</sub>

**M** = 78.11 g/mol

**1 l** = 0.88 kg

**FLASHPOINT** – 11 °C

**CAS NO.** 71-43-2

**EINECS** 200-753-7

**NC CODE** 2902 20 00

**EC NO.** 601 020 00 8

**UN/ID NO.** 1114

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-36/38-45-46-48/23/24/25-65

**S:** 45-53



highly flammable



toxic

### Exceeds ACS Specifications

Assay	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water (H <sub>2</sub> O)	max. 0.05%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8014.1000	1 l	6
8014.2500	2.5 l	4
8014.9025	25 l	
8014.9200	200 l	

Thiophene Free.

## ▶ 1,2,3-Benzenetriol

See Pyrogallol

## ▶ Benzocaine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## 1270 Benzoic Acid

'BAKER ANALYZED' / ACS

▶ C<sub>6</sub>H<sub>5</sub>COOH

**M** = 122.12 g/mol

**FLASHPOINT** 121 °C

**CAS NO.** 65-85-0

**EINECS** 200-618-2

**NC CODE** 2916 31 00

**R:** 22-36

**S:** 24



harmful

### Meets ACS Specifications

Assay	min. 99.5%
Chlorine Compounds (as Cl)	max. 0.005%
Freezing Point	122.0-123.0°C
Heavy Metals (as Pb)	max. 5 ppm
Insoluble in Methanol	max. 0.005%
Residue after Ignition	max. 0.005%
Substances Reducing KMnO <sub>4</sub>	passes test
Sulfur Compounds (as S)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
1270.0250	250 g	

## ▶ Benzoic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## 2363 Benzotriazole

'BAKER ANALYZED'

▶ C<sub>6</sub>H<sub>4</sub>NHNH

**M** = 119.13 g/mol

**CAS NO.** 95-14-7

**EINECS** 202-394-1

**NC CODE** 2933 99 90

**R:** 22-36-52/53

**S:** 22-24



harmful

Assay	min. 99%
Appearance	passes test
Color of 10% Solution in Ethanol (APHA)	max. 100
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Melting Point	min. 95°C
Water (H <sub>2</sub> O)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
2363.9040	40 kg	



## Benzyl Alcohol

'BAKER ANALYZED'

7010

▶ $C_8H_8CH_2OH$	Assay (by GC)	min. 99%
<b>M</b> = 108.14 g/mol	BDA/Diacetal	max. 10 ppm
<b>1 l</b> = 1.04 kg	Boiling Range	202.5-206.5°C
<b>FLASHPOINT</b> 101 °C	Chloride Compounds (as Cl)	max. 0.02%
<b>CAS NO.</b> 100-51-6	Density (g/ml) at 25°C	1.038-1.042
<b>EINECS</b> 202-859-9	Residue after Ignition	max. 0.005%
<b>NC CODE</b> 2906 21 00	Solubility in Water	passes test
<b>EC NO.</b> 603 057 00 5		
<b>R:</b> 20/22		
<b>S:</b> 26		



harmful

PRODUCT NO.	PACKING	CONT. BOX
7010.1000	1 l	
7010.2500	2.5 l	

## Benzyl Alcohol

99% / HISTO GRADE

3402

▶ $C_8H_8CH_2OH$	Assay (by GC)	min. 99%
<b>M</b> = 108.14 g/mol		
<b>1 l</b> = 1.04 kg		
<b>FLASHPOINT</b> 101 °C		
<b>CAS NO.</b> 100-51-6		
<b>EINECS</b> 202-859-9		
<b>NC CODE</b> 2906 21 00		
<b>EC NO.</b> 603 057 00 5		
<b>R:</b> 20/22		
<b>S:</b> 26		



harmful

PRODUCT NO.	PACKING	CONT. BOX
3402.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Benzyl Alcohol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Beryllium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5706

▶ Be	<b>Certificate Provided Reporting Actual Lot Analysis</b>	
<b>M</b> = 9.01 g/mol	Beryllium (Be)	998-1002 µg/ml
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 4 002 00 2		
<b>R:</b> 20-36/38-49		
<b>S:</b> 26-45-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
5706.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Beryllium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6921

▶ Be	Beryllium (Be)	998-1002 µg/ml
<b>M</b> = 9.01 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 4 002 00 2		
<b>R:</b> 20-36/38-49		
<b>S:</b> 26-45-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
6921.0100	100 ml	
6921.0500	500 ml	


Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

# Beryl

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z


## Beryllium 1000 µg/ml

6805 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Be	Beryllium (Be)	995 - 1005 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 9.01 g/mol			6805.0100	100 ml	
<b>NC CODE</b> 3822 00 00			6805.0500	500 ml	
<b>R</b> : 20-36/38-49					
<b>S</b> : 26-45-53					
 T					
toxic					
<i>Basic Beryllium Acetate in Nitric Acid 0.5 mol/l.</i>					

## Beryllium 10000 µg/ml

5720 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Be	<i>Certificate Provided Reporting Actual Lot Analysis</i> Beryllium (Be)	9980-10020 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 9.01 g/mol			5720.0100	100 ml	
<b>NC CODE</b> 3822 00 00					
<b>EC NO.</b> 4 002 00 2					
<b>UN/ID NO.</b> 2031					
<b>ADR/RID</b> 8 CO1					
<b>IMDG</b> 8/II					
<b>R</b> : 22-23-43-48/20-49-52/53					
<b>S</b> : 36/37-45-53					
 T					
toxic					
<p>Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.</p>					

### ▶ Biopharmaceutical Products


See for detailed information section Pharmaceutical products, page 36

### ▶ Biotechnology Products

See for detailed information section Reagents for Molecular and Biotechnology, page 26


## Bismuth 1000 µg/ml

5707 0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Bi	<i>Certificate Provided Reporting Actual Lot Analysis</i> Bismuth (Bi)	998-1002 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 208.98 g/mol			5707.0100	100 ml	
<b>NC CODE</b> 3822 00 00					
<b>R</b> : 36/38					
<b>S</b> : 26					
 Xi					
irritant					
<p>Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.</p>					

## Bismuth 1000 µg/ml

6922 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Bi	Bismuth (Bi)	998-1002 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 208.98 g/mol			6922.0100	100 ml	
<b>NC CODE</b> 3822 00 00			6922.0500	500 ml	
<b>R</b> : 36/38					
<b>S</b> : 26					
 Xi					
irritant					
<p>Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.</p>					

## Bismuth 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6806

▶ Bi			PRODUCT	PACKING	CONT.
<b>M</b> = 208.98 g/mol	Bismuth (Bi)	998-1002 µg/ml	<b>NO.</b>		<b>BOX</b>
<b>NC CODE</b> 3822 00 00			6806.0100	100 ml	
<b>R:</b> 36/38			6806.0500	500 ml	
<b>S:</b> 26					
					<i>Bismuth(III)nitrate in nitric acid 0.5 mol/l.</i>

## Bismuth 10000 µg/ml

(Matrix: 10% nitric acid) / 'BAKER INSTRA-ANALYZED' Plasma Standard

5721

▶ Bi			PRODUCT	PACKING	CONT.
<b>Certificate Provided Reporting Actual Lot Analysis</b>			<b>NO.</b>		<b>BOX</b>
<b>M</b> = 208.98 g/mol	Bismuth (Bi)	9980-10020 µg/ml	5721.0100	100 ml	
<b>NC CODE</b> 3822 00 00					
<b>UN/ID NO.</b> 2031					
<b>ADR/RID</b> 8 CO1					
<b>IMDG</b> 8/II					
<b>R:</b> 34					
<b>S:</b> 20-23-26-36/37/39-45					
					Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Bismuth(III) Nitrate Pentahydrate

'BAKER ANALYZED'

1029

▶ Bi(NO <sub>3</sub> ) <sub>3</sub> ·5H <sub>2</sub> O			PRODUCT	PACKING	CONT.
<b>M</b> = 485.07 g/mol	Assay (by EDTA titrn.)	min. 99.0%	<b>NO.</b>		<b>BOX</b>
<b>CAS NO.</b> 10035-06-0	Arsenic (As)	max. 0.001%	1029.0500	500 g	
<b>EINECS</b> 233-791-8	Chloride (Cl)	max. 0.001%			
<b>NC CODE</b> 2834 29 80	Copper (Cu) (by AAS)	max. 0.002%			
<b>UN/ID NO.</b> 1477	Insoluble in HNO <sub>3</sub>	max. 0.005%			
<b>ADR/RID</b> 5.1 O2	Iron (Fe) (by AAS)	max. 0.001%			
<b>IMDG</b> 5.1/II	Lead (Pb) (by AAS)	max. 0.002%			
	Silver (Ag)	max. 0.001%			
	Sulfate (SO <sub>4</sub> )	max. 0.002%			

## Bismuth(III) Oxide

'BAKER ANALYZED'

1032

▶ Bi <sub>2</sub> O <sub>3</sub>			PRODUCT	PACKING	CONT.
<b>M</b> = 465.96 g/mol	Assay (by EDTA titrn.)	min. 99.0%	<b>NO.</b>		<b>BOX</b>
<b>CAS NO.</b> 1304-76-3	Chloride (Cl)	max. 0.001%	1032.0100	100 g	
<b>EINECS</b> 215-134-7	Iron (Fe) (by AAS)	max. 0.005%	1032.9025	25 kg Plastic pail	
<b>NC CODE</b> 2825 90 80	Lead (Pb) (by AAS)	max. 0.003%			
	Nitrate (NO <sub>3</sub> )	max. 0.03%			
	Sulfur Compounds (as SO <sub>4</sub> )	max. 0.002%			

## Bismuth Subgallate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Bismuth Subnitrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Bismuth Subsalicylate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Borax

See Disodium Tetraborate Decahydrate

# Boric

## 5168 ULTREX Ultrapure Reagent

▶ H<sub>3</sub>BO<sub>3</sub>

**M** = 61.83 g/mol  
**CAS NO.** 10043-35-3  
**EINECS** 233-139-2  
**NC CODE** 2810 00 90  
**R:** 36/37/38-60  
**S:** 45-53



toxic

### Certificate Provided Reporting Actual Lot Analysis

#### Actual Lot Analysis Lot No. Y36606

Assay (by acid-base titration)	99.9%
Nonvolatile with Methanol	0.004%
Particulate Matter	< 0.002%

#### Metallic Impurities in parts per million (µg/g):

Aluminium (Al)	< 20
Barium (Ba)	< 20
Calcium (Ca)	< 20
Chromium (Cr)	< 20
Cobalt (Co)	< 20
Copper (Cu)	< 10
Iron (Fe)	120
Manganese (Mn)	< 20
Nickel (Ni)	< 10
Tin (Sn)	< 100
Titanium (Ti)	< 20
Vanadium (V)	< 10
Zirconium (Zr)	< 10

#### Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)	< 0.04
Halide (as Cl)	2
Phosphate (PO <sub>4</sub> )	< 0.4
Sulfur Compounds (as SO <sub>4</sub> )	1

PRODUCT NO.	PACKING	CONT. BOX
5168.0100	100 g PE	

For application in Fiber Optics Manufacture.

## Boric Acid

### 4035 'BAKER ULTRAPURE BIOREAGENT'

▶ H<sub>3</sub>BO<sub>3</sub>

**M** = 61.83 g/mol  
**CAS NO.** 10043-35-3  
**EINECS** 233-139-2  
**NC CODE** 2810 00 90  
**R:** 36/37/38-60  
**S:** 45-53



toxic

### For Molecular Biology Buffers

Assay	min. 99.5%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
DNAase	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble in Methanol	max. 0.005%
Iron (Fe)	max. 0.001%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Protease	none detected
RNAase	none detected
Sulfate (SO <sub>4</sub> )	max. 0.005%

#### Trace Impurities (in ppm):

Arsenic (As)	max. 1
Magnesium (Mg)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4035.0500	500 g	
4035.2500	2.5 kg	

## Boric Acid

### 0055 'BAKER ANALYZED' / ACS

▶ H<sub>3</sub>BO<sub>3</sub>

**M** = 61.83 g/mol  
**CAS NO.** 10043-35-3  
**EINECS** 233-139-2  
**NC CODE** 2810 00 90  
**R:** 36/37/38-60  
**S:** 45-53



toxic

### Exceeds ACS Specifications

Assay	min. 99.5%
Arsenic (As)	max. 1 ppm
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble in Methanol	max. 0.005%
Iron (Fe)	max. 0.001%
Nonvolatile with Methanol	max. 0.05%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Sulfate (SO <sub>4</sub> )	max. 0.005%


PRODUCT NO.	PACKING	CONT. BOX
0055.0500	500 g	6
0055.1000	1 kg	6
0055.9010	10 kg	
0055.9025	25 kg	
0055.9050	50 kg	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Boric Acid**

'BAKER'

0501

▶ H <sub>3</sub> BO <sub>3</sub> <b>M</b> = 61.83 g/mol <b>CAS NO.</b> 10043-35-3 <b>EINECS</b> 233-139-2 <b>NC CODE</b> 2810 00 90 <b>R:</b> 36/37/38-60 <b>S:</b> 45-53  T toxic	Appearance of solution	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay	99.0-100.5%	0501.1000	1 kg	6
	Heavy Metals (as Pb)	max. 15 ppm	0501.9050	50 kg	
	Identification	passes test	Stored in a well closed container.		
	Loss on Drying	max. 0.5%			
	Organic Matter	passes test			
	pH	3.8-4.8			
	Solubility in Alcohol	passes test			
	Sulfates (as SO <sub>4</sub> )	max. 450 ppm			

**Boric Acid**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**Boric Anhydride**

'BAKER'

1176

▶ B <sub>2</sub> O <sub>3</sub> <b>M</b> = 69.62 g/mol <b>CAS NO.</b> 1303-86-2 <b>EINECS</b> 215-125-8 <b>NC CODE</b> 2810 00 10	Assay (B <sub>2</sub> O <sub>3</sub> ) (ignited basis)	min. 98.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Loss on Ignition	max. 10.0%	1176.0500	500 g	
	Sulfate (SO <sub>4</sub> )	max. 0.05%			

**Boron 1000 µg/ml**

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5708

▶ B <b>M</b> = 10.81 g/mol <b>NC CODE</b> 3822 00 00	<b>Certificate Provided Reporting Actual Lot Analysis</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Boron (B)	998-1002 µg/ml	5708.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

**Boron 1000 µg/ml**

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6923

▶ B <b>M</b> = 10.81 g/mol <b>NC CODE</b> 3822 00 00	Boron (B)	998-1002 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			6923.0100	100 ml	
			6923.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

**Boron 10000 µg/ml**

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5722

▶ B <b>M</b> = 10.81 g/mol <b>NC CODE</b> 3822 00 00	<b>Certificate Provided Reporting Actual Lot Analysis</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Boron (B)	9980-10020 µg/ml	5722.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

# Bouin

## Bouin's Fixative

3880 HISTO GRADE

NC CODE 3822 00 00  
 R: 20/21/22-36/37/38-40-43  
 S: 26-36/37/39



harmful

Fixative according to Bouin

PRODUCT NO.	PACKING	CONT. BOX
3880.1000	1 l Glass	

Ready to use Fixative for use in Histo-Pathology applications.

## Bovine Albumin, Fraction V

See Albumin (Bovine) Fraction V

## Brij 35

1240 'BAKER'

CAS NO. 9002-92-0  
 NC CODE 3402 13 00  
 R: 22-36  
 S: 24

Appearance of solution passes test

PRODUCT NO.	PACKING	CONT. BOX
1240.0250	250 g	

## Bromine

9003 'BAKER ANALYZED' / ACS

▶ Br

M = 79.90 g/mol  
 I l = 3.11 kg  
 CAS NO. 7726-95-6  
 EINECS 231-778-1  
 NC CODE 2801 30 90  
 EC NO. 35 001 00 5  
 UN/ID NO. 1744  
 ADR/RID 8 CT1  
 IMDG 8/I  
 R: 26-35-50  
 S: 26-45-61-7/9



corrosive



dangerous for the environment



very toxic

### Meets ACS Specifications

Assay	min. 99.5%
Chlorine (Cl)	max. 0.05%
Organic Bromine Compounds	passes test
Sulfur Compounds (as S)	max. 0.001%

### Additional Specification(s):

Iodine (I)	max. 0.001%
Residue after Evaporation	max. 0.005%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 2
Nickel (Ni)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9003.0100	100 ml	
9003.0500	500 ml	

## Bromine

9094 'BAKER'

▶ Br

M = 79.90 g/mol  
 I l = 3.11 kg  
 CAS NO. 7726-95-6  
 EINECS 231-778-1  
 NC CODE 2801 30 90  
 EC NO. 35 001 00 5  
 UN/ID NO. 1744  
 ADR/RID 8 CT1  
 IMDG 8/I  
 R: 26-35-50  
 S: 26-45-61-7/9



corrosive



dangerous for the environment



very toxic

Assay (Br)	min. 99%
Appearance	passes test
Iodine (I)	max. 0.002%
Residue after Evaporation	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
9094.0100	100 ml	
9094.0500	500 ml	

**Bromine (Bromide-Bromate) 0.05 mol Br<sub>2</sub>/l**

'BAKER ANALYZED'

7123

▶ Br<sub>2</sub>

NC CODE 2801 30 90

R: 45

S: 37-45-53



toxic

PRODUCT NO.	PACKING	CONT. BOX
7123.1000	1 l	

Volumetric Solution, ready for use.

**Bromine (Bromide-Bromate) 0.05 mol Br<sub>2</sub>/l**

'/10 equiv. = 7.99 g; 0.1N / DILUT-IT

4708

▶ Br<sub>2</sub>

NC CODE 2801 30 90

R: 45

S: 37-45-53



toxic

PRODUCT NO.	PACKING	CONT. BOX
4708	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

**Bromocresol Green**

'BAKER ANALYZED' / ACS

1511

▶ C<sub>8</sub>H<sub>4</sub>SO<sub>2</sub>OC(C<sub>6</sub>H<sub>2</sub>-2-CH<sub>3</sub>-3.5-Br<sub>2</sub>-4-OH)<sub>2</sub>

M = 698.02 g/mol

CAS NO. 76-60-8

EINECS 200-972-8

NC CODE 2934 99 90

**Meets ACS Specifications**

Clarity of Solution passes test

**Visual Transition Interval:**

pH 3.8 yellow

pH 5.4 blue

PRODUCT NO.	PACKING	CONT. BOX
1511.0005	5 g	

**Bromocresol Purple**

'BAKER'

1330

▶ C<sub>8</sub>H<sub>4</sub>SO<sub>2</sub>OC(C<sub>6</sub>H<sub>2</sub>-3-CH<sub>3</sub>-4-OH-5-Br)<sub>2</sub>

M = 540.23 g/mol

CAS NO. 115-40-2

EINECS 204-087-8

NC CODE 2934 99 90

Insoluble Matter passes test

**Visual Transition Interval:**

pH 5.2 yellow

pH 6.8 purple

PRODUCT NO.	PACKING	CONT. BOX
1330.0005	5 g	

**Bromoform**

'BAKER'

7354

▶ CHBr<sub>3</sub>

M = 252.73 g/mol

1 l = 2.82 kg

CAS NO. 75-25-2

EINECS 200-854-6

NC CODE 2903 30 36

EC NO. 602 007 00 0

UN/ID NO. 2515

ADR/RID 6.1 T1

IMDG 6.1/III

R: 23-36/38-51/53

S: 28-45-61



dangerous for the environment



toxic

Assay (by GC) min. 95.0%

Density (g/ml) at 25°C min. 2.80

Residue after Evaporation max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
7354.0500	500 ml	

**Bromophenol Blue**

'BAKER ANALYZED' / ACS

1369

▶ C<sub>8</sub>H<sub>4</sub>SO<sub>2</sub>OC(C<sub>6</sub>H<sub>2</sub>-3.5-Br<sub>2</sub>-4-OH)<sub>2</sub>

M = 669.97 g/mol

CAS NO. 115-39-9

EINECS 204-086-2

NC CODE 2934 99 90

**Meets ACS Specifications**

Clarity of Solution passes test

**Visual Transition Interval:**

pH 3.0 yellow

pH 4.6 blue

PRODUCT NO.	PACKING	CONT. BOX
1369.0005	5 g	

# Bromo

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Bromophenol Blue Sodium Salt

1472 'BAKER ANALYZED' / ACS

<p>▶ <math>C_9H_5Br_4O_5SNa</math></p> <p><b>M</b> = 691.95 g/mol</p> <p><b>CAS NO.</b> 34725-61-6</p> <p><b>EINECS</b> 252-170-2</p> <p><b>NC CODE</b> 2934 99 90</p>	<b>Meets ACS Specifications</b>	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>	
	Clarity of Solution	passes test	<b>NO.</b>	<b>BOX</b>	
	<b>Visual Transition Interval:</b>		1472.0010	10 g	
	pH 3.0	yellow			
	pH 4.6	blue			

## Bromothymol Blue

1513 'BAKER ANALYZED' / ACS

<p>▶ <math>C_8H_4SO_2OC[C_6H_2-CH_3-3-Br-4-OH-5-CH(CH_3)_2]</math></p> <p><b>M</b> = 624.39 g/mol</p> <p><b>CAS NO.</b> 76-59-5</p> <p><b>EINECS</b> 200-971-2</p> <p><b>NC CODE</b> 2934 99 90</p>	<b>Meets ACS Specifications</b>	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>	
	Clarity of Solution	passes test	<b>NO.</b>	<b>BOX</b>	
	<b>Visual Transition Interval:</b>		1513.0005	5 g	
	pH 6.0	yellow	1513.0025	25 g Glass	
	pH 7.6	blue			

## Brucine

2459 'BAKER'

<p>▶ <math>C_{23}H_{26}N_2O_4</math></p> <p><b>M</b> = 394.48 g/mol</p> <p><b>CAS NO.</b> 357-57-3</p> <p><b>EINECS</b> 206-614-7</p> <p><b>NC CODE</b> 2939 99 00</p> <p><b>EC NO.</b> 614 006 00 1</p> <p><b>UN/ID NO.</b> 1570</p> <p><b>ADR/RID</b> 6.1 T2</p> <p><b>IMDG</b> 6.1/I</p> <p><b>R:</b> 26/28-52/53</p> <p><b>S:</b> 13-45-61</p>	Assay (by Perchloric Acid titm.)	min. 99.5%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Melting Point	176-179°C	<b>NO.</b>	<b>BOX</b>	
	Nitrate (NO <sub>3</sub> )	passes test	2459.0010	10 g	
	Sensitivity to Nitrate	passes test			
	Specific Rotation [ $\alpha$ ] <sub>D</sub> <sup>20</sup>	-83 to -86°			
	Sulfated Ash	max. 0.1%			
	Water (H <sub>2</sub> O)	max. 0.5%			

**UN/ID NO.** 1570

**ADR/RID** 6.1 T2

**IMDG** 6.1/I

**R:** 26/28-52/53

**S:** 13-45-61

T+

very toxic

## Buffer

See Scotch Buffer

## Buffer Concentrate

4850 pH 1 / DILUT-IT

<b>NC CODE</b> 3822 00 00	pH at 20°C	1.00 ± 0.02	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
			<b>NO.</b>	<b>BOX</b>	
			4850	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains potassiumchloride / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Concentrate

4851 pH 2 / DILUT-IT

<b>NC CODE</b> 3822 00 00	pH at 20°C	2.00 ± 0.02	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
			<b>NO.</b>	<b>BOX</b>	
			4851	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains citric acid / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.



**Buffer Concentrate**

pH 3 / DILUT-IT

4852

NC CODE 3822 00 00      pH at 20°C      3.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4852	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains citric acid / sodium hydroxide / sodium chloride.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 4 / DILUT-IT

4795

NC CODE 3822 00 00      pH at 25°C      4.00 ± 0.01

**Composition:**

Buffer Capacity, B	0.016
Dilution value, Δ pH <sup>1</sup> / <sub>2</sub>	+ 0.05
Ionic Strength, I	0.05
NaOOC.C <sub>6</sub> H <sub>4</sub> COOH	0.05 M
Temperature Coefficient, d (pH)/dT (25°C)	+ 0.001
Useful Buffer Range, pH	3.0-5.0

PRODUCT NO.	PACKING	CONT. BOX
4795	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains phthalic acid / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 4 RED / DILUT-IT

4860

NC CODE 3822 00 00      pH at 20°C      4.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4860	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains potassium hydrogen phthalate / coloring agent.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 5.0 / 'BAKER ANALYZED'

7541

NC CODE 3822 00 00      pH 20°C (after dilution 7ml to 1L)      5.0 ± 0.05

PRODUCT NO.	PACKING	CONT. BOX
7541.9020	20 l Polycube	

Contains: 28 ml NaOH (50%) and 8.592 kg NaH<sub>2</sub>PO<sub>4</sub>·2aq and diluted with water to 20 L.

**Buffer Concentrate**

pH 5 / DILUT-IT

4853

NC CODE 3822 00 00      pH at 20°C      5.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4853	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains citric acid / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 6 / DILUT-IT

4854

NC CODE 3822 00 00      pH at 20°C      6.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4854	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains citric acid / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

# Bufte

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Buffer Concentrate

4796 pH 7 / DILUT-IT

NC CODE 3822 00 00

pH at 25°C 7.00 ± 0.01

**Composition:**

Buffer Capacity, B	0.028
Dilution value, Δ pH <sup>1</sup> / <sub>2</sub>	+ 0.08
Ionic Strength, I	0.1
Na <sub>2</sub> H PO <sub>4</sub>	0.029 M
NaH <sub>2</sub> PO <sub>4</sub>	0.021 M
Temperature Coefficient, d (pH)/dT (25°C)	-0.002
Useful Buffer Range, pH	6.5-7.5

PRODUCT NO.	PACKING	CONT. BOX
4796	1 amp.	6

*Volumetric concentrate, for dilution to 500ml.*  
Contains sodiumdihydrogenphosphate / disodiumhydrogenphosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Concentrate

4861 pH 7 GREEN / DILUT-IT

NC CODE 3822 00 00

pH at 20°C 7.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4861	1 amp.	6

*Volumetric concentrate, for dilution to 500ml.*  
Contains potassium dihydrogen phosphate / disodiumhydrogen phosphate / coloring agent.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Concentrate

4863 pH 7.20, according to Weise / DILUT-IT

NC CODE 3822 00 00

pH at 20°C 7.20 ± 0.05

PRODUCT NO.	PACKING	CONT. BOX
4863	1 amp.	6

*Volumetric Concentrate, for dilution to 1 l.*  
Contains potassiumdihydrogenphosphate / disodiumhydrogenphosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Concentrate

4856 pH 8 / DILUT-IT

NC CODE 3822 00 00

pH at 20°C 8.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4856	1 amp.	6

*Volumetric concentrate, for dilution to 500ml.*  
Contains sodium tetraborate / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Concentrate

4878 pH 9 / DILUT-IT

NC CODE 3822 00 00

pH at 20°C 9.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4878	1 amp.	6

*Volumetric concentrate, for dilution to 500ml.*  
Contains hydrochloric acid / disodium tetraborate.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 9 BLUE / DILUT-IT

4862

NC CODE 3822 00 00 pH at 20°C 9.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4862	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains sodium hydroxide / potassium chloride / boric acid / coloring agent.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 10 / DILUT-IT

4797

NC CODE 3822 00 00 pH at 25°C 10.00 ± 0.01

**Composition:**

Buffer Capacity, B	0.030
Dilution value, Δ pH <sub>1/2</sub>	+ 0.08
Ionic Strength, I	0.1
Na <sub>2</sub> CO <sub>3</sub>	0.025 M
NaHCO <sub>3</sub>	0.025 M
Temperature Coefficient, d (pH)/dT (25°C)	-0.010
Useful Buffer Range, pH	9.5-10.5

PRODUCT NO.	PACKING	CONT. BOX
4797	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains sodium carbonate / sodiumhydrogencarbonate.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 11 / DILUT-IT

4857

NC CODE 3822 00 00 pH at 20°C 11.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4857	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains sodium hydroxide / potassium chloride / boric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Concentrate**

pH 12 / DILUT-IT

4858

NC CODE 3822 00 00 pH at 20°C 12.00 ± 0.02

PRODUCT NO.	PACKING	CONT. BOX
4858	1 amp.	6

Volumetric concentrate, for dilution to 500ml.  
Contains sodium hydroxide / disodium hydrogen phosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffered Oxide Etchants**

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

**Buffer Solution**

pH 1.00 [KCl/HCl] / 'BAKER ANALYZED'

7261

NC CODE 3822 00 00 pH at 20°C 1.00 ± 0.02

**Temperature (°C):**

0	pH 0.94
10	pH 0.99
20	pH 1.00
30	pH 1.00
40	pH 1.01
50	pH 1.01
60	pH 1.01
70	pH 1.01
80	pH 1.02
90	pH 1.02

PRODUCT NO.	PACKING	CONT. BOX
7261.1000	1 l	

Contains potassiumchloride / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

7144 pH 2.00 [Citrate/HCl] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	2.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 1.99	7144.0500	500 ml	
	10	pH 1.99	7144.1000	1 l	6
	20	pH 2.00			
	30	pH 2.00			
	40	pH 2.00			
	50	pH 2.00			
	60	pH 2.00			
	70	pH 2.00			
	80	pH 2.00			
	90	pH 2.00			

Contains 0.01% sodium benzoate.  
Contains sodium citrate / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

7159 pH 3.00 [Citrate/HCl] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	3.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 3.03	7159.1000	1 l	6
	10	pH 3.02	7159.9020	20 l Polycube	
	20	pH 3.00			
	30	pH 3.00			
	40	pH 2.99			
	50	pH 2.98			
	60	pH 2.98			
	70	pH 2.98			
	80	pH 2.98			
	90	pH 2.97			

Contains 0.01% sodium benzoate.  
Contains sodium citrate / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

7262 pH 4.00 [Citrate/HCl] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	4.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 4.03	7262.1000	1 l	6
	10	pH 4.02	7262.5000	5 l HDPE	
	20	pH 4.00	7262.9010	10 l	
	30	pH 4.00			
	40	pH 4.00			
	50	pH 4.00			
	60	pH 4.00			
	70	pH 4.00			
	80	pH 4.00			
	90	pH 4.00			

Contains 0.01% sodium benzoate.  
Contains sodium citrate / hydrochloric acid.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

5657 pH 4.00 [Phthalate] / 'BAKER ANALYZED'

NC CODE	pH at 25°C	4.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 4.00	5657.0500	500 ml	6
	10	pH 4.00	5657.1000	1 l	6
	20	pH 4.00	5657.2500PE	2.5 l HDPE	4
	30	pH 4.01	5657.5000PE	5 l HDPE	4
	40	pH 4.03	5657.9010	10 l Polycube	
	50	pH 4.05			
	60	pH 4.08			
	70	pH 4.12			
	80	pH 4.16			
	90	pH 4.21			

Contains 0.01% sodium benzoate.  
Contains potassium hydrogen phthalate.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 4.00 [Phthalate] RED / 'BAKER ANALYZED'

5654

NC CODE 3822 00 00

pH at 20°C 4.00 ± 0.02

**Temperature (°C):**

0	pH 4.00
10	pH 4.00
20	pH 4.00
30	pH 4.01
40	pH 4.03
50	pH 4.05
60	pH 4.08
70	pH 4.12
80	pH 4.16
90	pH 4.21

PRODUCT NO.	PACKING	CONT. BOX
5654.0500	500 ml	6
5654.1000	1 l HDPE	6
5654.9010	10 l	

Contains 0.01% sodium benzoate.  
Contains potassium hydrogen phthalate.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 4.62 [Acetate] / 'BAKER ANALYZED'

7461

NC CODE 3822 00 00

pH at 20°C 4.62 ± 0.02

**Temperature (°C):**

20	pH 4.62
30	pH 4.62
40	pH 4.62
50	pH 4.65
60	pH 4.68
70	pH 4.69
80	pH 4.71
90	pH 4.75

PRODUCT NO.	PACKING	CONT. BOX
7461.0500	500 ml	
7461.1000	1 l	

Contains 0.01% sodium benzoate.  
Contains sodium acetate / acetic acid.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 5.00 [Citrate] / 'BAKER ANALYZED'

7263

NC CODE 3822 00 00

pH at 20°C 5.00 ± 0.05

**Temperature (°C):**

0	pH 5.05
10	pH 5.02
20	pH 5.00
30	pH 5.00
40	pH 5.00
50	pH 5.02
60	pH 5.04
70	pH 5.07
80	pH 5.10
90	pH 5.13

PRODUCT NO.	PACKING	CONT. BOX
7263.1000	1 l	6

Contains citric acid / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 6.00 [Citrate] / 'BAKER ANALYZED'

7264

NC CODE 3822 00 00

pH at 20°C 6.00 ± 0.05

**Temperature (°C):**

0	pH 6.03
10	pH 6.01
20	pH 6.00
30	pH 6.02
40	pH 6.04
50	pH 6.06
60	pH 6.09
70	pH 6.13
80	pH 6.18
90	pH 6.24

PRODUCT NO.	PACKING	CONT. BOX
7264.1000	1 l	6

Contains citric acid / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

# Bufte

A  
B  
C  
D  
E  
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G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Buffer Solution

7462 pH 6.88 / 'BAKER ANALYZED'

NC CODE	pH at 25°C	6.88 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 6.98	7462.0500	500 ml	
	10	pH 6.92	7462.1000	1 l	6
	20	pH 6.88			
	30	pH 6.85			
	40	pH 6.83			
	50	pH 6.83			
	60	pH 6.84			
	70	pH 6.85			
	80	pH 6.86			
	90	pH 6.88			

Contains 0.01% sodium benzoate.  
Contains potassiumdihydrogenphosphate / disodiumhydrogenphosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

5656 pH 7.00 [Phosphate] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	7.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 7.13	5656.0500	500 ml	6
	10	pH 7.05	5656.1000	1 l	6
	20	pH 7.00	5656.2500PE	2.5 l HDPE	4
	25	pH 6.98	5656.5000PE	5 l HDPE	4
	30	pH 6.98	5656.9010	10 l Polycube	
	40	pH 6.97			
	50	pH 6.96			
	60	pH 6.96			
	70	pH 6.97			
	80	pH 6.98			
	90	pH 7.00			

Contains 0.01% sodium benzoate.  
Contains potassiumdihydrogenphosphate / disodiumhydrogenphosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

5653 pH 7.00 [Phosphate] GREEN / 'BAKER ANALYZED'

NC CODE	pH at 20°C	7.00 ± 0.02	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 7.13	5653.0500	500 ml	6
	10	pH 7.05	5653.1000	1 l HDPE	6
	20	pH 7.00	5653.9010	10 l	
	25	pH 6.98	5653.9020	20 l Polycube	
	30	pH 6.98			
	40	pH 6.97			
	50	pH 6.96			
	60	pH 6.96			
	70	pH 6.97			
	80	pH 6.98			
	90	pH 7.00			

Contains 0.01% sodium benzoate.  
Contains potassiumdihydrogenphosphate / disodiumhydrogenphosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

7265 pH 8.00 [Phosphate] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	8.00 ± 0.05	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00	<b>Temperature (°C):</b>				
	0	pH 8.15	7265.1000	1 l	6
	10	pH 8.10			
	20	pH 8.00			
	30	pH 7.94			
	40	pH 7.90			
	50	pH 7.85			
	60	pH 7.83			
	70	pH 7.80			
	80	pH 7.78			
	90	pH 7.75			

Contains potassiumdihydrogenphosphate / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 9.00 [Borate] / 'BAKER ANALYZED'

7145

NC CODE 3822 00 00

pH at 20°C 9.00 ± 0.02

**Temperature (°C):**

0	pH 9.23
10	pH 9.10
20	pH 9.00
30	pH 8.91
40	pH 8.84
50	pH 8.78
60	pH 8.73
70	pH 8.69
80	pH 8.66
90	pH 8.62

PRODUCT NO.	PACKING	CONT. BOX
7145.0500	500 ml	6
7145.1000	1 l	6
7145.2500PE	2.5 l HDPE	4
7145.5000PE	5 l HDPE	4
7145.9020	20 l Polycube	

Contains 0.01% sodium benzoate.  
Contains boric acid / potassium chloride / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 9.00 [Borate] BLUE / 'BAKER ANALYZED'

5652

NC CODE 3822 00 00

pH at 20°C 9.00 ± 0.02

**Temperature (°C):**

0	pH 9.23
10	pH 9.10
20	pH 9.00
30	pH 8.91
40	pH 8.84
50	pH 8.78
60	pH 8.73
70	pH 8.69
80	pH 8.66
90	pH 8.62

PRODUCT NO.	PACKING	CONT. BOX
5652.0500	500 ml	6
5652.1000	1 l HDPE	6
5652.9010	10 l	

Contains 0.01% sodium benzoate.  
Contains boric acid / potassium chloride / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 10.00 [Borate] / 'BAKER ANALYZED'

5655

NC CODE 3822 00 00

pH at 25°C 10.00 ± 0.05

**Temperature (°C):**

0	pH 10.30
10	pH 10.17
20	pH 10.05
25	pH 10.00
30	pH 9.96
40	pH 9.89
50	pH 9.82
60	pH 9.76
70	pH 9.72
80	pH 9.68
90	pH 9.64

PRODUCT NO.	PACKING	CONT. BOX
5655.0500	500 ml	6
5655.1000	1 l	6
5655.9010	10 l Polycube	
5655.9020	20 l Polycube	

Contains 0.01% sodium benzoate.  
Contains boric acid / potassium chloride / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

**Buffer Solution**

pH 10.00 [NH<sub>4</sub>Cl/EDTA] / 'BAKER ANALYZED'

7273

NC CODE 3822 00 00

pH at 20°C 10.0 - 10.6

PRODUCT NO.	PACKING	CONT. BOX
7273.9020	20 l Polycube	

Contains ammoniumchloride / magnesium / potassium EDTA / sodiumsulfide / ammonia.  
This buffer is traceable to NIST Standard Reference Buffer.

# Bufte

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K  
L  
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Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Buffer Solution


**5651** pH 10.00 [Borate] BLUE / 'BAKER ANALYZED'

NC CODE	pH at 25°C	10.00 ± 0.05	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00			5651.0500	500 ml	6
	<b>Temperature (°C):</b>		5651.1000	1 l HDPE	6
	0	pH 10.30	5651.9010	10 l	
	10	pH 10.17			
	20	pH 10.05			
	25	pH 10.00			
	30	pH 9.96			
	40	pH 9.89			
	50	pH 9.82			
	60	pH 9.76			
	70	pH 9.72			
	80	pH 9.68			
	90	pH 9.64			

Contains 0.01% sodium benzoate.  
Contains boric acid / potassium chloride / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

**7268** pH 10-11 (NH<sub>4</sub>Cl/NH<sub>4</sub>OH) / 'BAKER ANALYZED'

NC CODE	pH at 20°C	10-11	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00			7268.1000	1 l	6
<b>R:</b> 36/37/38					
<b>S:</b> 26-36/37/39-45					
					

Contains ammoniumchloride / ammoniumhydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

**7267** pH 11.00 [Glycine] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	11.00 ± 0.05	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00			7267.1000	1 l	6
	<b>Temperature (°C):</b>				
	20	pH 11.00			
	30	pH 10.70			
	40	pH 10.42			
	50	pH 10.18			
	60	pH 9.92			
	70	pH 9.70			
	80	pH 9.50			
	90	pH 9.30			

Contains glycine / sodium chloride / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solution

**7269** pH 12.00 [Phosphate] / 'BAKER ANALYZED'

NC CODE	pH at 20°C	12.00 ± 0.05	PRODUCT NO.	PACKING	CONT. BOX
3822 00 00			7269.1000	1 l	
	<b>Temperature (°C):</b>				
	0	pH 12.58			
	10	pH 12.26			
	20	pH 12.00			
	30	pH 11.75			
	40	pH 11.53			
	50	pH 11.31			
	60	pH 11.09			
	70	pH 10.88			
	80	pH 10.68			
	90	pH 10.48			

Contains 0.01% sodium benzoate.  
Contains sodium hydroxide / disodium hydrogen phosphate.  
This buffer is traceable to NIST Standard Reference Buffer.

*Innovation is principal to our business.*



## Buffer Solution

pH 13.00 [Glycine] / 'BAKER ANALYZED'

7270

NC CODE 3822 00 00

pH at 20°C 13.00 ± 0.05

## Temperature (°C):

0	pH 13.71
10	pH 13.35
20	pH 13.00
30	pH 12.66
40	pH 12.37
50	pH 12.10
60	pH 11.84
70	pH 11.61
80	pH 11.40
90	pH 11.20

PRODUCT PACKING  
NO.

7270.1000 1 l

CONT.  
BOX

Contains 0.01% sodium benzoate.  
Contains glycine / sodium chloride / sodium hydroxide.  
This buffer is traceable to NIST Standard Reference Buffer.

## Buffer Solutions

See for detailed information section Reagents for pH Measurements, Titrimetry and Water Determination according to Karl Fischer, page 25

## 2-Butanone

See Methyl Ethyl Ketone

## 2-Butoxyethanol

'BAKER'

8414

▶ CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OH

M = 118.18 g/mol

l l = 0.90 kg

FLASHPOINT 61 °C

CAS NO. 111-76-2

EINECS 203-905-0

NC CODE 2909 43 00

EC NO. 603 014 00 0

UN/ID NO. 2810

ADR/RID 6.1 T1

IMDG 6.1/III

R: 20/21/22-36/38

S: 36/37-46



harmful

Acidity (as CH<sub>3</sub>COOH)

max. 0.01%

Boiling Range

169-173°C

Density (g/ml) at 20°C

0.900-0.904

Water (H<sub>2</sub>O)

max. 0.2%

PRODUCT PACKING  
NO.

8414.1000 1 l

8414.2500 2.5 l

CONT.  
BOX

## 2-(2-Butoxyethoxy)ethanol

'BAKER'

8417

▶ CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OH

M = 162.23 g/mol

l l = 0.96 kg

FLASHPOINT 78 °C

CAS NO. 112-34-5

EINECS 203-961-6

NC CODE 2909 44 00

EC NO. 603 096 00 8

R: 36

S: 24-26



irritant

Boiling Range

220-235°C

Density (g/ml) at 20°C

0.950-0.956

Water (H<sub>2</sub>O)

max. 0.5%

PRODUCT PACKING  
NO.

8417.1000 1 l

CONT.  
BOX

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

8018

## n-Butyl Acetate

'BAKER'

▶  $\text{CH}_3\text{COOCH}_2\text{CH}_2\text{CH}_2\text{CH}_3$   
**M** = 116.16 g/mol  
**1 I** = 0.88 kg  
**FLASHPOINT** 24 °C  
**CAS NO.** 123-86-4  
**EINECS** 204-658-1  
**NC CODE** 2915 33 00  
**EC NO.** 607 025 00 1  
**UN/ID NO.** 1123  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-66-67  
**S:** 25

Assay (by GC)	min. 98%
Acidity (as $\text{CH}_3\text{COOH}$ )	max. 0.005%
Boiling Range	124-127°C
Density (g/ml) at 20°C	0.878-0881
n-Butanol	max. 0.5%
Residue after Evaporation	max. 0.005%
Water ( $\text{H}_2\text{O}$ )	max. 0.05%
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
8018.1000	1 l	
8018.9025	25 l	
8018.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.



## n-Butyl Acetate MOS Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

8017

## n-Butyl Alcohol

'BAKER ANALYZED' / ACS

▶  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$   
**M** = 74.12 g/mol  
**1 I** = 0.81 kg  
**FLASHPOINT** 29 °C  
**CAS NO.** 71-36-3  
**EINECS** 200-751-6  
**NC CODE** 2905 13 00  
**EC NO.** 603 004 00 6  
**UN/ID NO.** 1120  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-22-37/38-41-67  
**S:** 13-26-37/39-46-7/9



harmful

<i>Exceeds ACS Specifications</i>	
Assay (by GC)	min. 99.4%
Aldehydes	passes test
Butyl Ether (by GC)	max. 0.2%
Carbonyl Compounds (as butyraldehyde)	max. 0.01%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Titration Acid (meq/g)	max. 0.0008
Water ( $\text{H}_2\text{O}$ )	max. 0.1%
<b>Trace Impurities (in ppm):</b>	
Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8017.1000	1 l	6
8017.2500	2.5 l	4
8017.5000	5 l EcoTainer	
8017.9025	25 l	4

For safe handling of 25 l tin cans, see Self-closing tap.



## n-Butylalcohol MOS Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

*MSDS (Material Safety Data Sheets)  
are available in 16 languages  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)*

## sec-Butyl Alcohol

'BAKER ANALYZED'

8103

▶  $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$   
**M** = 74.12 g/mol  
**1 l** = 0.80 kg  
**FLASHPOINT** 24 °C  
**CAS NO.** 78-92-2  
**EINECS** 201-158-5  
**NC CODE** 2905 14 90  
**EC NO.** 603 004 01 3  
**UN/ID NO.** 1120  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-36/37-67  
**S:** 13-24/25-26-46-7/9



Assay (by GC)	min. 99%
Boiling Range	98.5-100°C
Density (g/ml) at 25°C	0.801-0.803
Residue after Evaporation	max. 0.005%
Water (H <sub>2</sub> O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8103.1000	1 l	
8103.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## tert-Butyl Alcohol

'BAKER ANALYZED'

8019

▶  $(\text{CH}_3)_3\text{COH}$   
**M** = 74.12 g/mol  
**1 l** = 0.77 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 75-65-0  
**EINECS** 200-889-7  
**NC CODE** 2905 14 10  
**EC NO.** 603 005 00 1  
**UN/ID NO.** 1120  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20  
**S:** 16-9



Assay (by GC)	min. 99%
Boiling Range	81.5-83°C
Freezing Range	24.0-25.5°C
Recorded Boiling Point	82.4°C
Residue after Evaporation	max. 0.006%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8019.1000	1 l EcoTainer	6
8019.2500	2.5 l EcoTainer	

## tert-Butyl Alcohol

'BAKER'

8212

▶  $(\text{CH}_3)_3\text{COH}$   
**M** = 74.12 g/mol  
**1 l** = 0.77 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 75-65-0  
**EINECS** 200-889-7  
**NC CODE** 2905 14 10  
**EC NO.** 603 005 00 1  
**UN/ID NO.** 1120  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20  
**S:** 16-9



Boiling Range	81-83°C
Freezing Point	23-25.5°C
Residue after Evaporation	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
8212.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Butyl Chloride

See 1-Chlorobutane



# Butyl

A  
B  
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D  
E  
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G  
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I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## ▶ tert-Butyl Methyl Ether

See Methyl tert-Butyl Ether

## ▶ iso-Butyl Methyl Ketone

See Methyl Isobutyl Ketone

## ▶ Butylparaben

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ▶ Butyl Phosphate

See Tributyl Phosphate

## ▶ Butyl Phthalate

See Dibutyl Phthalate

## 5709 Cadmium 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Cd

**M** = 112.41 g/mol  
**NC CODE** 3822 00 00  
**R**: 20/21/22-36/38  
**S**: 26-36/37



### Certificate Provided Reporting Actual Lot Analysis

Cadmium (Cd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5709.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## 6924 Cadmium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Cd

**M** = 112.41 g/mol  
**NC CODE** 3822 00 00  
**R**: 20/21/22-36/38  
**S**: 26-36/37



Cadmium (Cd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6924.0100	100 ml	
6924.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## 6807 Cadmium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Cd

**M** = 112.41 g/mol  
**NC CODE** 3822 00 00  
**R**: 20/21/22-36/38  
**S**: 26-36/37



Cadmium (Cd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6807.0100	100 ml	
6807.0500	500 ml	

Cadmium nitrate in nitric acid 0.5 mol/l.

## 5723 Cadmium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Cd

**M** = 112.41 g/mol  
**NC CODE** 3822 00 00  
**R**: 20/21/22-36/38-52/53  
**S**: 26-36/37



### Certificate Provided Reporting Actual Lot Analysis

Cadmium (Cd) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5723.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

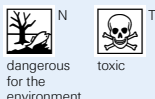
## Cadmium Chloride 2,5-Hydrate

'BAKER ANALYZED' / ACS

1208-01

▶ CdCl<sub>2</sub>·2.5H<sub>2</sub>O

**M** = 228.34 g/mol  
**CAS NO.** 7790-78-5  
**EINECS** 233-296-7  
**NC CODE** 2827 39 80  
**EC NO.** 48 008 00 3  
**UN/ID NO.** 2570  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 25-26-45-46-48/23/25-50/53-60-61  
**S:** 45-53-60-61

**Exceeds ACS Specifications**

Assay (CdCl <sub>2</sub> ) (by Ag titrn.)	79.5-81.0%
Ammonium (NH <sub>4</sub> )	max. 0.002%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.005%
Lead (Pb)	max. 0.005%
Nitrate and Nitrite (as NO <sub>3</sub> )	max. 0.003%
pH of 5% Solution at 25°C	3.5-5.0
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.005%
Zinc (Zn)	max. 0.05%

**Trace Impurities (in ppm):**

Copper (Cu)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1208-01	500 g HDPE	

## Cadmium Chloride Anhydrous

powder / 'BAKER ANALYZED' / ACS

1039

▶ CdCl<sub>2</sub>

**M** = 183.31 g/mol  
**CAS NO.** 10108-64-2  
**EINECS** 233-296-7  
**NC CODE** 2827 39 80  
**EC NO.** 48 008 00 3  
**UN/ID NO.** 2570  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 25-26-45-46-48/23/25-50/53-60-61  
**S:** 45-53-60-61

**Meets ACS Specifications**

Assay (argentometric titrn.)	min. 99.0%
Ammonium (NH <sub>4</sub> )	max. 0.01%
Calcium (Ca)	max. 0.01%
Copper (Cu)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.005%
Nitrate and Nitrite (as NO <sub>3</sub> )	max. 0.003%
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.01%
Zinc (Zn)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1039.0500	500 g	

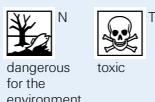
## Cadmium Sulfate Octahydrate

'BAKER ANALYZED' / ACS

1043

▶ 3CdSO<sub>4</sub>·8H<sub>2</sub>O

**M** = 769.51 g/mol  
**CAS NO.** 7790-84-3  
**EINECS** 233-331-6  
**NC CODE** 2833 29 10  
**EC NO.** 48 009 00 9  
**UN/ID NO.** 2570  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 22-48/23/25-49-50/53  
**S:** 45-53-60-61

**Meets ACS Specifications**

Assay	99.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.001%
Nitrate and Nitrite (as NO <sub>3</sub> )	max. 0.003%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.05%

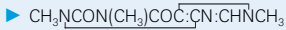
PRODUCT NO.	PACKING	CONT. BOX
1043.0100	100 g	
1043.9050	50 kg	

*Innovation is principal to our business.*

# Caffe

## Caffeine

1514 'BAKER'



**M** = 194.19 g/mol  
**CAS NO.** 58-08-2  
**EINECS** 200-362-1  
**NC CODE** 2939 30 00  
**EC NO.** 613 086 00 5  
**UN/ID NO.** 1544  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 22



Assay	98.5-101.5%
Acidity	passes test
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Loss on Drying	max. 0.5%
Sulfated Ash	max. 0.1%
Sulfates (as SO <sub>4</sub> )	max. 500 ppm

**Related Substances:**

Chloroform (CHCl <sub>3</sub> )	max. 0.5%
Methanol (CH <sub>3</sub> OH)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
1514.0500	500 g	

## Calamine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Calcium 1000 µg/ml

5710 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ca

**M** = 40.08 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



**Certificate Provided Reporting Actual Lot Analysis**

Calcium (Ca)	998-1002 µg/ml
--------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
5710.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Calcium 1000 µg/ml

6925 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ca

**M** = 40.08 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



Calcium (Ca)	998-1002 µg/ml
--------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
6925.0100	100 ml	
6925.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Calcium 1000 µg/ml

6808 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ca

**M** = 40.08 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



Calcium (Ca)	998-1002 µg/ml
--------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
6808.0100	100 ml	
6808.0500	500 ml	

Calcium nitrate in nitric acid 0.5 mol/l.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

### Calcium 10000 µg/ml

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5724

▶ Ca

**M** = 40.08 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO2  
**IMDG** 8/II  
**R:** 34  
**S:** 20-23-26-36/37/39-45



corrosive

#### Certificate Provided Reporting Actual Lot Analysis

Calcium (Ca)	9980-10020 µg/ml
--------------	------------------

PRODUCT NO.	PACKING	CONT. BOX
5724.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Calcium Acetate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Acetate. 1/2 H<sub>2</sub>O

'BAKER ANALYZED'

0059

▶ (CH<sub>3</sub>COO)<sub>2</sub>Ca. 1/2 H<sub>2</sub>O

**CAS NO.** 62-54-4  
**EINECS** 200-540-9  
**NC CODE** 2915 29 00

Assay	98.0-101.0%
Alkalinity	passes test
Barium (Ba)	max. 0.005%
Chloride (Cl)	max. 0.05%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Magnesium and Alkalies (as SO <sub>4</sub> )	max. 0.3%
Nitrate (NO <sub>3</sub> )	max. 0.003%
Sulfate (SO <sub>4</sub> )	max. 0.01%
Titrate Acid (meq/g)	max. 0.035

PRODUCT NO.	PACKING	CONT. BOX
0059.0500	500 g	6

### Calcium Acetate 1 mol/l

1N / 'BAKER ANALYZED'

7117

▶ (CH<sub>3</sub>COO)<sub>2</sub>Ca

**M** = 158.17 g/mol  
**EINECS** 200-540-9  
**NC CODE** 2915 29 00

Titer (mol/l)	0.995-1.005
---------------	-------------

PRODUCT NO.	PACKING	CONT. BOX
7117.9020	20 l Polycube	

Volumetric Solution, ready for use.

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

## Calcium Carbonate

4922 ULTREX Ultrapure Reagent

▶ CaCO<sub>3</sub>

**M** = 100.09 g/mol  
**CAS NO.** 471-34-1  
**EINECS** 207-439-9  
**NC CODE** 2836 50 00

### Certificate Provided Reporting Actual Lot Analysis

#### Actual Lot Analysis of Lot. No. X02584

Assay (dried basis)	100.00-100.00%
Alkalinity	passes test
Loss on Drying at 200°C	0.06%
Particulate Matter	0.2%

#### Metallic Impurities (in ppm):

Aluminium (Al)	< 1
Barium (Ba)	< 10
Bismuth (Bi)	< 10
Cadmium (Cd)	< 5
Chromium (Cr)	< 1
Cobalt (Co)	< 1
Copper (Cu)	< 1
Iron (Fe)	< 1
Lead (Pb)	< 10
Lithium (Li)	< 100
Magnesium (Mg)	1
Manganese (Mn)	< 1
Mercury (Hg)	0.002
Molybdenum (Mo)	< 1
Nickel (Ni)	< 5
Niobium (Nb)	< 10
Potassium (K)	< 1
Silver (Ag)	< 1
Sodium (Na)	1
Strontium (Sr)	< 1
Tin (Sn)	< 10
Titanium (Ti)	< 1
Vanadium (V)	< 1
Zinc (Zn)	< 10
Zirconium (Zr)	< 1

#### Non Metallic Impurities (in ppm):

Arsenic (As)	< 0.2
Fluoride (F)	4
Halide (as Cl)	3
Nitrogen Compounds (as N)	1300
Phosphate (PO <sub>4</sub> )	0.5
Silicon (Si)	< 1
Sulfur Compounds (as SO <sub>4</sub> )	2

PRODUCT NO.	PACKING	CONT. BOX
4922.0025	25 g Glass	
4922.0100	100 g Glass	

## Calcium Carbonate

1464 Powder / 'BAKER INSTRA-ANALYZED'

▶ CaCO<sub>3</sub>

**M** = 100.09 g/mol  
**CAS NO.** 471-34-1  
**EINECS** 207-439-9  
**NC CODE** 2836 50 00

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Fluoride (F)	max. 0.001%
Loss on Drying at 285°C	max. 1.0%
Sulfate (SO <sub>4</sub> )	max. 0.01%

#### Trace Impurities (in ppm):

Aluminium (Al)	max. 10
Cadmium (Cd)	max. 50
Chromium (Cr)	max. 5
Cobalt (Co)	max. 10
Copper (Cu)	max. 10
Iron (Fe)	max. 2
Lead (Pb)	max. 10
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 10
Nickel (Ni)	max. 20
Potassium (K) (by FES)	max. 50
Silicon (Si)	max. 5
Sodium (Na) (by FES)	max. 80
Tin (Sn)	max. 5
Titanium (Ti)	max. 20
Vanadium (V)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1464.0500	500 g	
<i>Flux Grade.</i>		

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### Calcium Carbonate

Powder / 'BAKER ANALYZED' / low in Alkalies / ACS

0061

▶ CaCO <sub>3</sub>	<b>M =</b> 100.09 g/mol <b>CAS NO.</b> 471-34-1 <b>EINECS</b> 207-439-9 <b>NC CODE</b> 2836 50 00	<b>Exceeds ACS Specifications</b> Assay (dried basis) min. 99.0% Ammonium (NH <sub>4</sub> ) max. 0.003% Average Particle Diameter, μm (APD) act. value reported Barium (Ba) max. 0.01% Bulk Density (g/cc)(typical) act. value reported Chloride (Cl) max. 0.001% Fluoride (F) max. 0.0015% Heavy Metals (as Pb) max. 0.001% Insoluble in Dilute HCl max. 0.01% Iron (Fe) max. 0.002% Magnesium (Mg) max. 0.01% Potassium (K) max. 0.01% Sodium (Na) max. 0.01% Specific Surface Area, m <sup>2</sup> /g (typical) act. value reported Strontium (Sr) max. 0.1% Sulfate (SO <sub>4</sub> ) max. 0.005% <b>Mesh (Wet Screen Analysis):</b> On U.S. No. 325 Sieve act. value reported	PRODUCT	PACKING	CONT.
			NO.		BOX
			0061.0500	500 g	

### Calcium Carbonate

Precipitated / 'BAKER ANALYZED'

0503

▶ CaCO <sub>3</sub>	<b>M =</b> 100.09 g/mol <b>CAS NO.</b> 471-34-1 <b>EINECS</b> 207-439-9 <b>NC CODE</b> 2836 50 00	Assay min. 99.0% Barium (Ba) max. 0.005% Chloride (Cl) max. 0.005% Insoluble in HCl max. 0.01% Iron (Fe) max. 0.002% Lead (Pb) max. 0.0005% Magnesium (Mg) max. 0.05% Nitrogen Compounds (as N) max. 0.001% Sulfate (SO <sub>4</sub> ) max. 0.01%	PRODUCT	PACKING	CONT.
			NO.		BOX
			0503.1000	1 kg	


### Calcium Carbonate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Chloride Anhydrous

Granular < 6mm / 'BAKER'

0070

▶ CaCl <sub>2</sub>	<b>M =</b> 110.99 g/mol <b>CAS NO.</b> 10043-52-4 <b>EINECS</b> 233-140-8 <b>NC CODE</b> 2827 20 00 <b>R:</b> 36 <b>S:</b> 22-24 	Assay min. 95%	PRODUCT	PACKING	CONT.
			NO.		BOX
			0070.1000	1 kg	6
			0070.5000	5 kg	

### Calcium Chloride, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

Find more Chromatography information at [www.jtbaker.com/chromatography](http://www.jtbaker.com/chromatography)


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# Calci

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## Calcium Chloride Dihydrate

0504 'BAKER ANALYZED'


▶ CaCl <sub>2</sub> ·2H <sub>2</sub> O	Assay	min. 99.0%
<b>M</b> = 147.02 g/mol	Ammonium (NH <sub>4</sub> )	max. 0.005%
<b>CAS NO.</b> 10035-04-8	Barium (Ba)	max. 0.003%
<b>EINECS</b> 233-140-8	Insoluble in Water	max. 0.005%
<b>NC CODE</b> 2827 20 00	Magnesium (Mg)	max. 0.05%
<b>EC NO.</b> 17 013 00 2	Oxidizing Substances (as NO <sub>3</sub> )	max. 0.003%
<b>R:</b> 36	pH of 5% Solution at 20°C	4.5-6.5
<b>S:</b> 22-24	Potassium (K)	max. 0.01%
	Sodium (Na)	max. 0.01%
irritant	Strontium (Sr)	max. 0.05%
	Sulfate (SO <sub>4</sub> )	max. 0.005%
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0504.0100	100 g	
0504.1000	1 kg	6
0504.9050	50 kg	

Appearance white to light cream colored.

## Calcium Chloride Dihydrate

0064 'BAKER'

▶ CaCl <sub>2</sub> ·2H <sub>2</sub> O	Assay	99.0-103.0%
<b>M</b> = 147.02 g/mol	Acid or alkaline reacting substances	passes test
<b>CAS NO.</b> 10035-04-8	Aluminium (Al)	passes test
<b>EINECS</b> 233-140-8	Appearance of solution	passes test
<b>NC CODE</b> 2827 20 00	Barium (Ba)	passes test
<b>EC NO.</b> 17 013 00 2	Heavy Metals (as Pb)	max. 0.001%
<b>R:</b> 36	Identification	passes test
<b>S:</b> 22-24	Iron (Fe)	max. 0.001%
	Iron, Aluminium and Phosphate	passes test
irritant	Magnesium and Alkalies (as SO <sub>4</sub> )	max. 0.3%
	Organic Volatile Impurities	passes test
	pH of 5% Solution at 25°C	4.5-9.2
	Sulfate (SO <sub>4</sub> )	max. 200 ppm

PRODUCT NO.	PACKING	CONT. BOX
0064.1000	1 kg	6
0064.5000	5 kg	
0064.9050	50 kg	

## Calcium Chloride, Dihydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Calcium Chloride

7232 0.0125 mol/l / 'BAKER ANALYZED'

▶ CaCl <sub>2</sub>	Titer (mol/l)	0.0120-0.0130
<b>M</b> = 110.99 g/mol		
<b>CAS NO.</b> 10043-52-4		
<b>EINECS</b> 233-140-8		
<b>NC CODE</b> 2827 20 00		

PRODUCT NO.	PACKING	CONT. BOX
7232.9020	20 l Polycube	

Volumetric Solution, ready for use.

## Calcium Chloride

7116 0.01 mol/l / 'BAKER ANALYZED'

▶ CaCl <sub>2</sub>	Titer (mol/l)	0.0095-0.0105
<b>M</b> = 110.99 g/mol		
<b>CAS NO.</b> 10043-52-4		
<b>EINECS</b> 233-140-8		
<b>NC CODE</b> 2827 20 00		

PRODUCT NO.	PACKING	CONT. BOX
7116.1000	1 l	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against Calcium Carbonate (NIST traceable reference standard).

The concentration of the solution is confirmed by titration with EDTA.

## Calcium Citrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Fluoride

'BAKER ANALYZED'

1046

▶ CaF <sub>2</sub> <b>M</b> = 78.08 g/mol <b>CAS NO.</b> 7789-75-5 <b>EINECS</b> 232-188-7 <b>NC CODE</b> 2826 19 00	Assay (by EDTA titrn.)	min. 95.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Chloride (Cl)	max. 0.05%	<b>NO.</b>		<b>BOX</b>
	Heavy Metals (as Pb)	max. 0.005%	1046.0500	500 g	
	Iron (Fe)	max. 0.005%			
	Sulfate (SO <sub>4</sub> )	max. 0.05%			

### Calcium Gluconate, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Gluconate, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Hydroxide

'BAKER ANALYZED'

0073

▶ Ca(OH) <sub>2</sub> <b>M</b> = 74.09 g/mol <b>CAS NO.</b> 1305-62-0 <b>EINECS</b> 215-137-3 <b>NC CODE</b> 2825 90 19 <b>R:</b> 41 <b>S:</b> 22-24-26-39	Assay	min. 95.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Chloride (Cl)	max. 0.03%	<b>NO.</b>		<b>BOX</b>
	Heavy Metals (as Pb)	max. 0.003%	0073.1000	1 kg	
	Insoluble in HCl	max. 0.03%			
	Iron (Fe)	max. 0.05%			
	Magnesium and Alkali Salts (as SO <sub>4</sub> )	max. 1.0%			
	Sulfur Compounds (as SO <sub>4</sub> )	max. 0.1%			



### Calcium Hydroxide

Powder / 'BAKER'

0074

▶ Ca(OH) <sub>2</sub> <b>M</b> = 74.09 g/mol <b>CAS NO.</b> 1305-62-0 <b>EINECS</b> 215-137-3 <b>NC CODE</b> 2825 90 19 <b>R:</b> 41 <b>S:</b> 22-24-26-39	Assay	95.0-100.5%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Acid Insoluble Substances	max. 0.5%	<b>NO.</b>		<b>BOX</b>
	Carbonate (CO <sub>3</sub> )	passes test	0074.1000	1 kg	
	Heavy Metals (as Pb)	max. 20 ppm	0074.9025	25 kg	
	Identification	passes test			
	Magnesium and Alkali salts	max. 4.8%			
	Organic Volatile Impurities	passes test			



### Calcium Hydroxide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Lactate, 5-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Calcium Lactate-Calcium Acetate solution

'BAKER ANALYZED'

7233

<b>NC CODE</b> 3822 00 00	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	<b>NO.</b>		<b>BOX</b>
	7233.9020	20 l Polycube	

Volumetric Solution, ready for use.

*Innovation is principal to our business.*

# Calci

## Calcium Nitrate Tetrahydrate

0076 'BAKER ANALYZED'

▶  $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$   
**M** = 236.15 g/mol  
**CAS NO.** 13477-34-4  
**EINECS** 233-332-1  
**NC CODE** 2834 29 80  
**UN/ID NO.** 1454  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 36-8  
**S:** 15-17-24-7



Assay (by EDTA titrn.)	99.0-103.0%
Barium (Ba)	max. 0.005%
Chloride (Cl)	max. 0.005%
Insoluble Matter and $\text{NH}_4\text{OH}$ Precipitate	max. 0.005%
Magnesium and Alkali Salts (as $\text{SO}_4$ )	max. 0.2%
pH of 5% Solution at 25°C	5.0-7.0
Sulfate ( $\text{SO}_4$ )	max. 0.002%
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0076.0100	100 g	
0076.1000	1 kg	6

## Calcium Oxide

0078 'BAKER ANALYZED'

▶  $\text{CaO}$   
**M** = 56.08 g/mol  
**CAS NO.** 1305-78-8  
**EINECS** 215-138-9  
**NC CODE** 2825 90 19  
**R:** 41  
**S:** 22-24-26-39



Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.005%
Insoluble in $\text{CH}_3\text{COOH}$ and $\text{NH}_4\text{OH}$	
Precipitate	max. 1.0%
Iron (Fe)	max. 0.1%
Loss on Ignition	max. 5.0%
Nitrate ( $\text{NO}_3$ )	max. 0.05%
Sulfate ( $\text{SO}_4$ )	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0078.1000	1 kg	6
0078.7100	100 lbs	
0078.9012	12 kg	

## Calcium Oxide

0154 Powder / 'BAKER'

▶  $\text{CaO}$   
**M** = 56.08 g/mol  
**CAS NO.** 1305-78-8  
**EINECS** 215-138-9  
**NC CODE** 2825 90 19  
**R:** 41  
**S:** 22-24-26-29



Assay	min. 90%
Carbonate	passes test
Insoluble Matter in HCl	max. 1.0%
Loss on Ignition	max. 10%
Magnesium and Alkalies	passes test

PRODUCT NO.	PACKING	CONT. BOX
0154.1000	1 kg	6
0154.9050	50 kg	

## Calcium Oxide

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Calcium Pantothenate

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Calcium Phosphate, Dibasic, Anhydrous

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Calcium Phosphate, Tribasic

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Calcium Sulfate Anhydrous

1701 1-3mm / 'BAKER' / for drying

▶  $\text{CaSO}_4$   
**M** = 136.14 g/mol  
**CAS NO.** 7778-18-9  
**EINECS** 231-900-3  
**NC CODE** 2833 29 90

Appearance	passes test
------------	-------------

PRODUCT NO.	PACKING	CONT. BOX
1701.1000	1 kg	

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I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

### Calcium Sulfate Anhydrous

3-5mm / 'BAKER' / for drying

1702

▶ CaSO <sub>4</sub> <b>M</b> = 136.14 g/mol <b>CAS NO.</b> 7778-18-9 <b>EINECS</b> 231-900-3 <b>NC CODE</b> 2833 29 90	Appearance	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			1702.1000	1 kg	
			1702.7100	100 lbs	

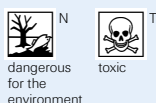
### Calcium Sulfate Anhydrous

with indicator, 3-15mm / 'BAKER' / for drying

1703

▶ CaSO <sub>4</sub> <b>M</b> = 136.14 g/mol <b>CAS NO.</b> 7778-18-9 <b>EINECS</b> 231-900-3 <b>NC CODE</b> 2833 29 90 <b>R:</b> 42/43-49-51/53 <b>S:</b> 20-22-24-53	Appearance	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			1703.1000	1 kg	
			1703.9050	50 kg	

Contains cobaltchloride.



### Calcium Sulfate Dihydrate

Powder / 'BAKER ANALYZED' / ACS

0081

▶ CaSO <sub>4</sub> ·2H <sub>2</sub> O <b>M</b> = 172.17 g/mol <b>CAS NO.</b> 10101-41-4 <b>EINECS</b> 231-900-3 <b>NC CODE</b> 2833 29 90	<b>Meets ACS Specifications</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay	98.0-102.0%	0081.1000	1 kg	6
	Carbonate (CO <sub>2</sub> )	passes test	0081.9050	50 kg	
	Chloride (Cl)	max. 0.005%			
	Heavy Metals (as Pb)	max. 0.002%			
	Insoluble in Dilute HCl	max. 0.02%			
	Iron (Fe)	max. 0.001%			
	Magnesium (Mg)	max. 0.02%			
	Nitrate (NO <sub>3</sub> )	passes test			
	Potassium (K)	max. 0.005%			
	Sodium (Na)	max. 0.02%			
	Strontium (Sr)	max. 0.05%			

### Calcium Sulfate Hemihydrate

Powder / 'BAKER TLC' / for Thin Layer Chromatography

0536

▶ CaSO <sub>4</sub> ·0.5H <sub>2</sub> O <b>M</b> = 145.15 g/mol <b>CAS NO.</b> 7778-18-9 <b>EINECS</b> 231-900-3 <b>NC CODE</b> 2833 29 90	Chloride (Cl)	max. 0.01%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Iron (Fe)	max. 0.01%	0536.0500	500 g	
	Suitability for TLC	passes test			

### Capping A (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9497

<b>1 l</b> = 0.91 kg <b>FLASHPOINT</b> -21 °C <b>NC CODE</b> 3822 00 00 <b>UN/ID NO.</b> 2924 <b>ADR/RID</b> 3 FC <b>IMDG</b> 3/II <b>R:</b> 11-19-20/21/22-37/38-41 <b>S:</b> 26-28-36/37/39-43A-45	<b>Suitable for Oligonucleotide Synthesis</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay Acetic Anhydride	9.0-11.0% (v/v)	9497.0180	180 ml Glass	
	Assay Pyridine	9.0-11.0% (v/v)	9497.0450	450 ml Glass	
	Appearance: clear, colorless solution free from visible particulates	passes test	9497.2000	2 l Glass	
			9497.2500	2.5 l Glass	
			9497.4000GL	4 l Glass	



## Capping A (ABI)

9510 'BAKER ANALYZED' / for DNA/RNA synthesis

1 l = 0.91 kg  
**FLASHPOINT** -21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-19-37/38-41  
**S:** 26-36/37/39-43A-45



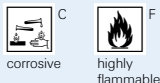
**Suitable for Oligonucleotide Synthesis**  
 Assay Acetic Anhydride 8.2-10.0% (v/v)  
 Appearance: clear, colorless solution free from visible particulates passes test

PRODUCT NO.	PACKING	CONT. BOX
9510.0200	200 ml Glass	
9510.0450	450 ml Glass	
9510.0900	900 ml Glass	
9510.2500	2.5 l Glass	
9510.4000GL	4 l Glass	

## Capping B (ABI)

9485 'BAKER ANALYZED' / for DNA/RNA synthesis

1 l = 0.91 kg  
**FLASHPOINT** -21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-19-34  
**S:** 16-20-26-9



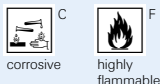
**Suitable for Oligonucleotide Synthesis**  
 Assay (1-Methylimidazole) 15.2-16.8% (v/v)  
 Appearance: clear, colorless solution free from visible particulates passes test  
 Water (H<sub>2</sub>O) max. 120 ppm

PRODUCT NO.	PACKING	CONT. BOX
9485.0180	180 ml Glass	
9485.0450	450 ml Glass	
9485.2000	2 l Glass	
9485.2500	2.5 l Glass	
9485.4000GL	4 l Glass	

## Capping B (ABI)

9512 'BAKER ANALYZED' / for DNA/RNA synthesis

1 l = 0.91 kg  
**FLASHPOINT** -21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-19-20/21/22-34  
**S:** 26-36/37/39-43A-45



**Suitable for Oligonucleotide Synthesis**  
 Assay (1-Methylimidazole) 9.5-10.5% (v/v)  
 Assay Pyridine 9.5-10.5% (v/v)  
 Appearance: clear, colorless solution free from visible particulates passes test  
 Water (H<sub>2</sub>O) max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
9512.0200	200 ml Glass	
9512.0450	450 ml Glass	
9512.0900	900 ml Glass	
9512.2500	2.5 l Glass	
9512.4000GL	4 l Glass	

## Capping A/B reagents for use in DNA synthesis

See for detailed information section Reagents for DNA/RNA Synthesis, page 261

## Capryl Alcohol

See 2-Octanol

## CAPS

4118 'BAKER ULTRAPURE BIOREAGENT'

▶ C <sub>9</sub> H <sub>19</sub> NO <sub>3</sub> S	Assay	min. 98.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 221.32 g/mol	Appearance	passes test	4118.0025	25 g Glass	
<b>CAS NO.</b> 1135-40-6	DNase Activity	none detected	4118.0100	100 g	
<b>EINECS</b> 214-492-1	Heavy Metals (as Pb)	max. 5 ppm	4118.1000	1 kg	
<b>NC CODE</b> 2922 50 00	Insoluble Matter	max. 0.5%			
	Protease Activity	none detected			
	RNase Activity	none detected			
	<b>Product Information (not specifications):</b>				
	pKa at 20°C	10.40			

## Carbamide

See Urea

### Carbon Tetrachloride

See Tetrachloromethane

### Castor Oil

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Caustic Potash

See Potassium Hydroxide

### CCV Solution I & II

'BAKER INSTRA-ANALYZED' / Plasma Standard

6106-01

**NC CODE** 3822 00 00  
**UN/ID NO.** 3264  
**ADR/RID** 8 C1  
**IMDG** 8/III  
**R:** 36/38  
**S:** 26-37



*Kit contains one bottle of each solution*

**Element Concentrations of Solution I (µg/ml):**

Barium (Ba)	500
Beryllium (Be)	200
Cadmium (Cd)	250
Cobalt (Co)	500
Copper (Cu)	500
Iron (Fe)	500
Lead (Pb)	500
Manganese (Mn)	500
Nickel (Ni)	500
Silver (Ag)	100
Thallium (Tl)	500
Zinc (Zn)	500

**Element Concentrations of Solution II (µg/ml):**

Aluminium (Al)	500
Antimony (Sb)	500
Arsenic (As)	500
Calcium (Ca)	5000
Chromium (Cr)	500
Magnesium (Mg)	5000
Potassium (K)	5000
Selenium (Se)	500
Sodium (Na)	5000
Vanadium (V)	500

PRODUCT NO.	PACKING	CONT. BOX
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6106-01 100 ml x 2

For use in EPA Contract Laboratory Program (CLP).  
Traceable to NIST.

### CDTA, Sodium Salt

See trans-1,2-Diaminocyclohexane-N,N,N,N-tetra- acetic acid, Sodium Salt

### Cedarwood Oil

'BAKER'

7397

**1 l =** 0.98 kg  
**NC CODE** 3302 90 90

Refractive Index  $n_D^{20}$  1.501-1.511

PRODUCT NO.	PACKING	CONT. BOX
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7397.0025 25 ml 6

For Immersion.

### Celite 503

'BAKER' / analytical filter aid

0902

**EINECS** 272-489-0  
**NC CODE** 3822 00 00  
**R:** 68/20  
**S:** 22



Appearance passes test

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

0902.1000 1 kg

# Celit

## Celite 545

3376 'BAKER ANALYZED'

CAS NO. 68855-54-9

EINECS 272-489-0

R: 68/20

S: 22



harmful

*Suitable for use in pesticide residue analysis after extraction with petroleum ether*

Loss on Drying at 110°C	max. 0.2%
Petroleum Ether Extractables	value on label
pH of 5% Slurry at 20°C	8.0-10.0

PRODUCT NO.	PACKING	CONT. BOX
3376.2500	2.5 kg	

## Cellulose

5007 'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

NC CODE 3912 11 00

PRODUCT NO.	PACKING	CONT. BOX
5007	25 sheets	

A flexible sheet coated with high purity cellulose powder.

## Cellulose

5036 'BAKER TLC' / for Thin Layer Chromatography

NC CODE 3912 11 00

Suitability for TLC passes test

**Physical Data (not specifications):**

Average Particle Diameter, $\mu\text{m}$ (APD)	2-20
Bulk Density (g/cc) (untapped)	0.4

PRODUCT NO.	PACKING	CONT. BOX
5036.0500	500 g	

## Cellulose DEAE

5016 'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

NC CODE 3912 39 10

PRODUCT NO.	PACKING	CONT. BOX
5016	25 sheets	

A flexible sheet coated with (2-(diethylamino)ethyl) cellulose powder.

## Cellulose 2-(Diethylamino)ethyl Ether

See Cellulose DEAE

## Cellulose PEI

5012 'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

NC CODE 3912 39 80

PRODUCT NO.	PACKING	CONT. BOX
5012	25 sheets	

A flexible sheet coated with polyetylenimine cellulose powder.

## Cerium(IV) Ammonium Nitrate

See Ammonium Cerium(IV) Nitrate

## Cerium(IV) Sulfate

2008 'BAKER ANALYZED'

▶  $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$

M = 404.30 g/mol

CAS NO. 10294-42-5

EINECS 237-029-5

NC CODE 2846 10 00

Assay	min. 98%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.005%
Insoluble in $\text{H}_2\text{SO}_4$	max. 0.005%
Iron (Fe)	max. 0.005%
Phosphate ( $\text{PO}_4$ )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
2008.1000PE	1 kg HDPE	6

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



### Cerium(IV) Sulfate 0.1 mol/l

0.1 mol/l / 'BAKER ANALYZED'

7114

PRODUCT NO.	PACKING	CONT. BOX
7114.1000	1 l	6
7114.9020	20 l Polycube	

Volumetric Solution, ready for use.

### Cervix Fixative

Cytology

3869

NC CODE 3822 00 00

UN/ID NO. 1993

ADR/RID 3 F1

IMDG 3/II

R: 11-36

S: 16-24/25-26-7/9



highly flammable

irritant

PRODUCT NO.	PACKING	CONT. BOX
3869.1200	125 ml HDPE x 12	

### Cervix Spray for Cytology

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

### Cesium Chloride

'BAKER ULTRAPURE BIOREAGENT'

4042

PRODUCT NO.	PACKING	CONT. BOX
4042.0100	100 g	
4042.1000	1 kg	

▶ CsCl

M = 168.37 g/mol

CAS NO. 7647-17-8

EINECS 231-600-2

NC CODE 2827 39 80

#### For Density Gradient Centrifugation

Assay min. 99.9%

Absorbance of 50% (w/v) Aqueous

Solution at 260 nm (1-cm path) max. 0.02

DNase Activity none detected

Protease Activity none detected

RNase Activity none detected

#### Trace Impurities (in ppm):

Aluminium (Al) max. 10

Barium (Ba) max. 5

Calcium (Ca) max. 10

Chromium (Cr) max. 5

Copper (Cu) max. 3

Iron (Fe) max. 2

Lead (Pb) max. 5

Lithium (Li) max. 5

Magnesium (Mg) max. 3

Manganese (Mn) max. 5

Potassium (K) performance only

Rubidium (Rb) max. 10

Sodium (Na) performance only

Strontium (Sr) max. 5

Sulfate (SO<sub>4</sub>) max. 5

Analytical applications are available  
in our Technical Library  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Cesium Chloride

1955 'BAKER INSTRA-ANALYZED'

▶ CsCl

**M** = 168.37 g/mol  
**CAS NO.** 7647-17-8  
**EINECS** 231-600-2  
**NC CODE** 2827 39 80

Assay	min. 99.5%
Absorbance of 50% (w/v) Aqueous Solution at 260 nm (1-cm path)	max. 0.02
<b>Trace Impurities (in ppm):</b>	
Aluminium (Al)	max. 0.1
Barium (Ba)	max. 5
Calcium (Ca)	max. 0.3
Chromium (Cr)	max. 0.1
Iron (Fe)	max. 0.2
Lithium (Li)	max. 0.5
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.1
Phosphorus (as P <sub>2</sub> O <sub>5</sub> )	max. 0.5
Potassium (K)	max. 1
Rubidium (Rb)	max. 5
Silicon Dioxide (SiO <sub>2</sub> )	max. 1
Sodium (Na)	max. 0.2
Strontium (Sr)	max. 0.2
Sulfate (SO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1955.0025	25 g Glass	
1955.0250	250 g	

## Cesium Chloride

2012 'BAKER ANALYZED'

▶ CsCl

**M** = 168.37 g/mol  
**CAS NO.** 7647-17-8  
**EINECS** 231-600-2  
**NC CODE** 2827 39 80

Assay	min. 99.5%
Nitrogen Compounds (as N)	max. 0.001%
<b>Trace Impurities (in ppm):</b>	
Aluminium (Al)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 3
Magnesium (Mg)	max. 5
Potassium (K)	max. 20
Sodium (Na)	max. 20
Sulfate (SO <sub>4</sub> )	max. 50

PRODUCT NO.	PACKING	CONT. BOX
2012.0100	100 g	

## Cetane

See n-Hexadecane

## cGMP Manufactured Products

See for detailed information section Biopharmaceutical Products, page 36

## CHAPS

4145 'BAKER ULTRAPURE BIOREAGENT'

▶ C<sub>32</sub>H<sub>58</sub>N<sub>2</sub>O<sub>7</sub>S

**M** = 614.89 g/mol  
**CAS NO.** 75621-03-3  
**NC CODE** 3822 00 00

Assay (by TLC)	min. 98%
Conductivity, μmhos	max. 100
Insoluble Matter	max. 0.2%
pH of 10% Slurry at 25°C	5.0-7.0
Solubility	passes test

PRODUCT NO.	PACKING	CONT. BOX
4145.0005	5 g	
4145.0025	25 g Glass	
4145.0100	100 g	
4145.1000	1 kg	

## Charcoal, Activated

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## CHES, Sodium salt

4147 'BAKER ULTRAPURE BIOREAGENT'

▶ C<sub>8</sub>H<sub>16</sub>NNaO<sub>3</sub>S

**M** = 229.27 g/mol  
**CAS NO.** 3076-05-9  
**EINECS** 221-352-3  
**NC CODE** 2921 30 99

Assay (dried basis)	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Protease Activity	none detected
RNase Activity	none detected
Water (by KF, volumetric)	max. 8.0%
<b>Product Information (not specifications):</b>	
pKa at 20°C	9.30

PRODUCT NO.	PACKING	CONT. BOX
4147.0025	25 g Glass	
4147.0100	100 g	
4147.1000	1 kg	

## Chloral Hydrate

'BAKER'

1052

		ASSAY	PRODUCT NO.	PACKING	CONT. BOX
▶ $\text{CCl}_3\text{CH}(\text{OH})_2$		Assay			
<b>M</b> =	165.40 g/mol	Appearance of solution	1052.0500	500 g	
<b>CAS NO.</b>	302-17-0	Chloral-alcoholate			
<b>EINECS</b>	206-117-5	Chlorides (as Cl)			
<b>NC CODE</b>	2905 59 99	Heavy Metals (as Pb)			
<b>EC NO.</b>	605 014 00 6	Identification			
<b>UN/ID NO.</b>	2811	Nonvolatile Residue			
<b>ADR/RID</b>	6.1 T2	pH (10% ; water)			
<b>IMDG</b>	6.1/II				
<b>R:</b>	25-36/38				
<b>S:</b>	25-45				
T toxic					
PRODUCT NO. 1052.0500    PACKING 500 g    CONT. BOX Stored in an airtight container.					

## Chloramine T

'BAKER ANALYZED'

1255

		ASSAY	PRODUCT NO.	PACKING	CONT. BOX
▶ $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa}\cdot 3\text{H}_2\text{O}$		Assay (as Chlorine)	1255.0250	250 g	
<b>M</b> =	281.69 g/mol	Insoluble in Ethanol			
<b>CAS NO.</b>	7080-50-4				
<b>EINECS</b>	204-854-7				
<b>NC CODE</b>	2935 00 90				
<b>EC NO.</b>	616 010 00 9				
<b>UN/ID NO.</b>	3263				
<b>ADR/RID</b>	8 C8				
<b>IMDG</b>	8/III				
<b>R:</b>	22-31-34-42				
<b>S:</b>	22-26-36/37/39-45-7				
C corrosive					

## N-Chloro-p-toluenesulfonamide, N-Sodium Derivate

See Chloramine T

## Chloroacetic Acid

'BAKER ANALYZED'

0177

		ASSAY	PRODUCT NO.	PACKING	CONT. BOX
▶ $\text{ClCH}_2\text{COOH}$		Assay	0177.1000	1 kg	
<b>M</b> =	94.50 g/mol	Chloride (Cl)			
<b>FLASHPOINT</b>	126 °C	Heavy Metals (as Pb)			
<b>CAS NO.</b>	79-11-8	Insoluble Matter			
<b>EINECS</b>	201-178-4	Iron (Fe)			
<b>NC CODE</b>	2915 40 00	Melting Point			
<b>EC NO.</b>	607 003 00 1	Residue after Ignition			
<b>UN/ID NO.</b>	1751	Substances Darkened by $\text{H}_2\text{SO}_4$			
<b>ADR/RID</b>	6.1 TC2	Sulfate ( $\text{SO}_4$ )			
<b>IMDG</b>	6.1/II				
<b>R:</b>	25-34-50				
<b>S:</b>	23-37-45-61				
N     T dangerous for the environment    toxic					

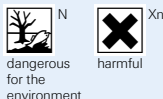
## Chloroauric Acid

See Tetrachloroauric(III) Acid

## Chlorobenzene

8023 'BAKER ANALYZED'

▶ C<sub>6</sub>H<sub>5</sub>Cl  
**M** = 112.56 g/mol  
**1 l** = 1.10 kg  
**FLASHPOINT** 28 °C  
**CAS NO.** 108-90-7  
**EINECS** 203-628-5  
**NC CODE** 2903 61 00  
**EC NO.** 602 033 00 1  
**UN/ID NO.** 1134  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20-51/53  
**S:** 24/25-61



Assay (by GC) min. 99%  
 Boiling Range max. 1.0°C  
 Density (g/ml) at 25°C 1.101-1.104  
 Recorded Boiling Point 132°C

PRODUCT NO.	PACKING	CONT. BOX
8023.1000	1 l	6
8023.2500	2.5 l	4
8023.9200	200 l	

## Chloroform

9257 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

▶ CHCl<sub>3</sub>  
**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37



Assay (by GC) (corrected for water) (exclusive of preservative) min. 99.8%  
 Chloride (Cl) (in ppm) max. 10  
 Color (APHA) max. 10  
 Residue after Evaporation (in ppm) max. 2  
 Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test  
 Titrable Acid (meq/g) max. 0.0005  
 Water (H<sub>2</sub>O) max. 0.05%  
**ECD Sensitive Impurities (as Heptachlor Epoxide):**  
 Single Impurities (pg/ml) max. 10  
**FID-Sensitive Impurities (as 2-Octanol):**  
 Single Impurities (ng/ml) max. 10

PRODUCT NO.	PACKING	CONT. BOX
9257.1000	1 l	6
9257.4000	4 l Glass	4

Stabilized with about 0.75% ethanol.

## Chloroform

9174 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

▶ CHCl<sub>3</sub>  
**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37



Assay (by GC) (exclusive of preservative) min. 99.8%  
 Preservative (as Amylene) max. 50 ppm  
 Water (H<sub>2</sub>O) max. 0.01%  
**Fluorescence Trace Impurities (as quinine base), ppb:**  
 Measured at 450 nm max. 1.0  
 Measured at Emission Maximum for  
 Solvent Impurities max. 2.5  
**Physical Data (not specifications):**  
 Density (g/ml) at 20°C 1.483  
**Trace Impurities:**  
 Chloride (Cl) (in ppm) max. 10  
 Residue after Evaporation (in ppm) max. 5  
 Titrable Acid (meq/g) max. 0.0005  
**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 254 nm max. 0.15  
 at 280 nm max. 0.05  
 at 350 nm max. 0.01  
 UV Cut-off, nm max. 245

PRODUCT NO.	PACKING	CONT. BOX
9174.1000	1 l	6
9174.2500	2.5 l	4

Stabilized with about 50 ppm Amylene.  
 Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

## Chloroform

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9175

▶ CHCl<sub>3</sub>

**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37



Assay (by GC) (exclusive of preservative) min. 99.8%  
 Preservative (C<sub>2</sub>H<sub>5</sub>OH) (by GC) 0.5-1.0% (w/w)  
 Residue after Evaporation max. 2 ppm  
 Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test  
 Titrable Acid (meq/g) max. 0.0005  
 Water (H<sub>2</sub>O) max. 0.01%

**Fluorescence Trace Impurities (as quinine base),**

**ppb:**  
 Measured at 450 nm max. 0.25  
 Measured at Emission Maximum for Solvent Impurities max. 1.0

**Physical Data (not specifications):**

Density (g/ml) at 20°C 1.478

**Trace Impurities (in ppm):**

Chloride (Cl) max. 10

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 254 nm max. 0.15  
 at 280 nm max. 0.01  
 at 350 nm max. 0.01  
 UV Cut-off, nm max. 245

PRODUCT NO.	PACKING	CONT. BOX
9175.1000	1 l	6
9175.2500	2.5 l	4

Stabilized with about 0.75% ethanol.  
 Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

## Chloroform

'BAKER ANALYZED' / for Dithizon / ACS

7018

▶ CHCl<sub>3</sub>

**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37

**Exceeds ACS Specifications**

Assay (by GC) min. 99.8%  
 Acetone and Aldehyde (as (CH<sub>3</sub>)<sub>2</sub>CO) max. 0.005%  
 Acid and Chloride passes test  
 Color (APHA) max. 10  
 Free Chlorine passes test  
 Preservative (C<sub>2</sub>H<sub>5</sub>OH) about 0.75%  
 Residue after Evaporation max. 0.001%  
 Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test  
 Suitability for Use in Dithizone Test passes test

**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5  
 Barium (Ba) max. 0.1  
 Boron (B) max. 0.02  
 Cadmium (Cd) max. 0.05  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.02  
 Cobalt (Co) max. 0.02  
 Copper (Cu) max. 0.02  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.05  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.02  
 Nickel (Ni) max. 0.02  
 Tin (Sn) max. 0.1  
 Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7018.1000	1 l	6
7018.10005	1 l EcoTainer	
7018.2500	2.5 l	4
7018.5000	5 l EcoTainer	
7018.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

Stabilized with about 0.75% ethanol.

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## Chloroform

7019 'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

▶ CHCl<sub>3</sub>

**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37



### Exceeds ACS Specifications

Assay (by GC)	min. 99.8%
Acetone and Aldehyde (as (CH <sub>3</sub> ) <sub>2</sub> CO)	max. 0.001%
Acid and Chloride	passes test
Color (APHA)	max. 10
Free Chlorine	passes test
Lead (Pb)	max. 0.05 ppm
Preservative (C <sub>2</sub> H <sub>5</sub> OH)	about 0.75%
Residue after Evaporation	max. 5 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Suitability for Use in Dithizone Test	passes test

### Ultraviolet Absorbance (1.00-cm path vs water):

at 245 nm	max. 1.00
at 255 nm	max. 0.25
at 260 nm	max. 0.15
at 270 nm	max. 0.05
at 290-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7019.0500	500 ml	
7019.1000	1 l	6
7019.2500	2.5 l	4

Stabilized with about 0.75% ethanol.

## Chloroform

7386 'BAKER ANALYZED' / for Dithizon

▶ CHCl<sub>3</sub>

**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37



Assay (by GC)	min. 99%
Acetone and Aldehyde (as (CH <sub>3</sub> ) <sub>2</sub> CO)	max. 0.005%
Acid and Chloride	passes test
Color (APHA)	max. 10
Density (g/ml) at 25°C	1.467-1.474
Free Chlorine	passes test
Preservative (C <sub>2</sub> H <sub>5</sub> OH)	about 0.75%
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7386.1000	1 l	6
7386.2500	2.5 l	4
7386.5000	5 l EcoTainer	
7386.9025	25 l	
7386.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
 For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with about 0.75% ethanol.

## Chloroform

7152 'BAKER'

▶ CHCl<sub>3</sub>

**M** = 119.38 g/mol  
**1 l** = 1.47 kg  
**CAS NO.** 67-66-3  
**EINECS** 200-663-8  
**NC CODE** 2903 13 00  
**EC NO.** 602 006 00 4  
**UN/ID NO.** 1888  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-38-40-48/20/22  
**S:** 36/37



Assay (by GC)	min. 99%
Appearance	passes test
Color (APHA)	max. 10
Ethanol (C <sub>2</sub> H <sub>5</sub> OH)	0.4-1.0% (m/m)
Residue after Evaporation	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
7152.1000	1 l	6
7152.2500	2.5 l	4
7152.9025	25 l	
7152.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with about 0.75% ethanol.

**Chloroform-d<sub>1</sub>**  
min. 99.8 Atom% D / 'BAKER'

7413

▶ CDCl <sub>3</sub>	Assay	min. 99.8%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M =</b> 120.38 g/mol			7413.0100	100 g	
<b>CAS NO.</b> 865-49-6					
<b>EINECS</b> 212-742-4					
<b>NC CODE</b> 2903 13 00					
<b>EC NO.</b> 602 006 00 4					
<b>UN/ID NO.</b> 1888					
<b>ADR/RID</b> 6.1 T1					
<b>IMDG</b> 6.1/III					
<b>R:</b> 22-38-40-48/20/22					
<b>S:</b> 36/37					
Xn harmful					

**Chloroplatinic Acid Hexahydrate**  
crystal / 'BAKER ANALYZED' / ACS

2890-03

▶ H <sub>2</sub> PtCl <sub>6</sub> ·6H <sub>2</sub> O	<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M =</b> 517.92 g/mol	Assay (Pt)	min. 37.50%	2890-03	1 g	
<b>CAS NO.</b> 18497-13-7	Alkalies and other Salts (as SO <sub>4</sub> )	max. 0.05%			
<b>EINECS</b> 241-010-7	Solubility in Alcohol	passes test			
<b>NC CODE</b> 2843 90 90	Suitability for Potassium Determination	passes test			
<b>EC NO.</b> 78 009 00 4					Keep in a cool place and tightly closed.
<b>UN/ID NO.</b> 2507					
<b>ADR/RID</b> 8 C2					
<b>IMDG</b> 8/III					
<b>R:</b> 25-34-42/43					
<b>S:</b> 22-26-36/37/39-45					
T toxic					

**3-(3-cholamidopropyl)dimethylammonio-1-propanesulfonate**  
See CHAPS

**Chromic Acid Anhydride**  
See Chromium(VI) Oxide

**Chromium 1000 µg/ml**  
0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5711

▶ Cr	<b>Certificate Provided Reporting Actual Lot Analysis</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M =</b> 52.00 g/mol	Chromium (Cr)	998-1002 µg/ml	5711.0100	100 ml	
<b>NC CODE</b> 3822 00 00					
<b>R:</b> 36/38					
<b>S:</b> 26					
Xi irritant					Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

**Chromium 1000 µg/ml**  
(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6926

▶ Cr	Chromium (Cr)	998-1002 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M =</b> 52.00 g/mol			6926.0100	100 ml	
<b>NC CODE</b> 3822 00 00			6926.0500	500 ml	
<b>R:</b> 36/38					
<b>S:</b> 26-37					
Xi irritant					Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

# Chrom

## Chromium 1000 µg/ml

6809 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Cr	Chromium (Cr)	998-1002 µg/ml
<b>M</b> = 52.00 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>R</b> : 36/38		
<b>S</b> : 26-37		



PRODUCT NO.	PACKING	CONT. BOX
6809.0100	100 ml	
6809.0500	500 ml	

Chromium nitrate in nitric acid 0.5 mol/l.

## Chromium 10000 µg/ml

5727 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Cr	<b>Certificate Provided Reporting Actual Lot Analysis</b>	
<b>M</b> = 52.00 g/mol	Chromium (Cr)	9980-10020 µg/ml
<b>NC CODE</b> 3822 00 00		
<b>R</b> : 36/38		
<b>S</b> : 26		



PRODUCT NO.	PACKING	CONT. BOX
5727.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Chromium(III) Chloride Hexahydrate

1055 'BAKER ANALYZED'

▶ CrCl <sub>3</sub> ·6H <sub>2</sub> O	Assay (by Iodometry)	99.0-102.0%
<b>M</b> = 266.45 g/mol	Insoluble Matter	max. 0.01%
<b>CAS NO.</b> 10060-12-5	Iron (Fe)	max. 0.01%
<b>EINECS</b> 233-038-3	pH of 5% Solution at 25°C	2.0-3.0
<b>NC CODE</b> 2827 39 80	Sulfate (SO <sub>4</sub> )	max. 0.01%
<b>R</b> : 21/22		
<b>S</b> : 24/25-28		



PRODUCT NO.	PACKING	CONT. BOX
1055.0250	250 g	

## Chromium(III) Oxide

0083 'BAKER'

▶ Cr <sub>2</sub> O <sub>3</sub>	Ammonium (NH <sub>4</sub> )	max. 0.01%
<b>M</b> = 151.99 g/mol	Chloride (Cl)	max. 0.02%
<b>CAS NO.</b> 1308-38-9	Iron (Fe)	max. 0.05%
<b>EINECS</b> 215-160-9	Sulfate (SO <sub>4</sub> )	max. 0.7%
<b>NC CODE</b> 2819 90 90		

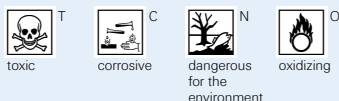
PRODUCT NO.	PACKING	CONT. BOX
0083.1000	1 kg	

## Chromium(VI) Oxide

0086 'BAKER ANALYZED' / ACS

▶ CrO <sub>3</sub>	<b>Meets ACS Specifications</b>	
<b>M</b> = 99.99 g/mol	Assay (by Iodometry)	min. 98.0%
<b>CAS NO.</b> 1333-82-0	Chloride (Cl)	max. 0.005%
<b>EINECS</b> 215-607-8	Insoluble Matter	max. 0.01%
<b>NC CODE</b> 2819 10 00	Iron, Aluminium and Barium	max. 0.03%
<b>EC NO.</b> 24 001 00 0	Nitrate (NO <sub>3</sub> )	max. 0.05%
<b>UN/ID NO.</b> 1463	Sodium (Na)	max. 0.2%
<b>ADR/RID</b> 5.1 OC2	Sulfate (SO <sub>4</sub> )	max. 0.005%
<b>IMDG</b> 5.1/II		

PRODUCT NO.	PACKING	CONT. BOX
0086.0500	500 g	



## Chromium Sesquioxide

See Chromium(III) Oxide

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



## Chromium Trioxide

See Chromium(VI) Oxide

## Chromotropic Acid, Disodium Salt

'BAKER ANALYZED'

1261

<p>▶ <math>(\text{HO})_2\text{C}_6\text{H}_4(\text{SO}_3\text{Na})_2 \cdot 2\text{H}_2\text{O}</math>  <b>M</b> = 400.30 g/mol  <b>CAS NO.</b> 5808-22-0  <b>EINECS</b> 204-972-9  <b>NC CODE</b> 2908 20 00</p>	Insoluble Matter	max. 0.01%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>	
	Suitability for Formaldehyde Determination	passes test				
	Water (H <sub>2</sub> O)	about 9%	1261.0025	25 g Glass		

## Citric Acid Anhydrous

'BAKER ANALYZED' / ACS

0090

<p>▶ <math>\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2</math>  <b>M</b> = 192.13 g/mol  <b>CAS NO.</b> 77-92-9  <b>EINECS</b> 201-069-1  <b>NC CODE</b> 2918 14 00</p>	<b>Meets ACS Specifications</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay	min. 99.5%			
	Chloride (Cl)	max. 0.001%	0090.1000	1 kg	6
	Insoluble Matter	max. 0.005%	0090.9025	25 kg	
	Oxalate (C <sub>2</sub> O <sub>4</sub> )	passes test	0090.9050	50 kg	
	Phosphate (PO <sub>4</sub> )	max. 0.001%			
	Residue after Ignition	max. 0.02%			
	Substances Carbonizable by Hot H <sub>2</sub> SO <sub>4</sub> (Tartrates, etc.)	passes test			
	Sulfate (SO <sub>4</sub> )	max. 0.002%			
	<b>Trace Impurities (in ppm):</b>				
	Iron (Fe)	max. 3			
	Lead (Pb)	max. 2			

## Citric Acid Anhydrous

'BAKER'

1995

<p>▶ <math>\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2</math>  <b>M</b> = 192.13 g/mol  <b>CAS NO.</b> 77-92-9  <b>EINECS</b> 201-069-1  <b>NC CODE</b> 2918 14 00</p>	Assay	99.5-101.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Appearance of solution	passes test			
	Heavy Metals (as Pb)	max. 10 ppm	1995.1000	1 kg	6
	Identification	passes test	1995.9050	50 kg	
	Oxalic acid	max. 350 ppm			
	Readily Carbonisable Substances	passes test			
	Sulfated Ash	max. 0.1%			
	Sulfates (as SO <sub>4</sub> )	max. 150 ppm			
	Water (H <sub>2</sub> O)	max. 1.0%			

## Citric Acid, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Citric Acid Monohydrate

crystal / 'BAKER ANALYZED' / ACS

0088

<p>▶ <math>\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O}</math>  <b>M</b> = 210.14 g/mol  <b>CAS NO.</b> 5949-29-1  <b>EINECS</b> 201-069-1  <b>NC CODE</b> 2918 14 00</p>	<b>Meets ACS Specifications</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay	99.0-102.0%			
	Chloride (Cl)	max. 0.001%	0088.1000	1 kg	6
	Insoluble Matter	max. 0.005%	0088.5000	5 kg	4
	Oxalate (C <sub>2</sub> O <sub>4</sub> )	passes test	0088.9050	50 kg	
	Phosphate (PO <sub>4</sub> )	max. 0.001%			
	Residue after Ignition	max. 0.02%			
	Substances Carbonizable by Hot H <sub>2</sub> SO <sub>4</sub> (Tartrates, etc.)	passes test			
	Sulfate (SO <sub>4</sub> )	max. 0.002%			
	<b>Trace Impurities (in ppm):</b>				
	Iron (Fe)	max. 3			
	Lead (Pb)	max. 2			

## Citric Acid Monohydrate

2064 crystal / 'BAKER'

▶  $\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O}$   
**M** = 210.14 g/mol  
**CAS NO.** 5949-29-1  
**EINECS** 201-069-1  
**NC CODE** 2918 14 00

Assay	99.5-100.5%
Arsenic (As)	max. 3 ppm
Heavy Metals	max. 0.001%
Identification	passes test
Limit of oxalate	passes test
Organic Volatile Impurities	passes test
Readily Carbonisable Substances	passes test
Residue after Ignition	max. 0.05%
Sulfate (SO <sub>4</sub> )	passes test
Water (H <sub>2</sub> O)	max. 8.8%

PRODUCT NO.	PACKING	CONT. BOX
2064.1000	1 kg	6
2064.5000	5 kg	
2064.9050	50 kg	

### Citric Acid, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Citric Acid Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Cleaner for Histology

See Paraffin Cleaner

### Cleaners for Use in Electronic Industries

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Cleaning

See Baker-Clear 12

## Cleaning Solution

7272 'BAKER ANALYZED'

**NC CODE** 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
7272.1000	1 l	
7272.9020	20 l	

Solution, ready for use.

## Cleland's Reagent

F780 'BAKER ULTRAPURE BIOREAGENT'

▶  $\text{HSCH}_2(\text{CHOH})_2\text{CH}_2\text{SH}$   
**M** = 154.25 g/mol  
**CAS NO.** 27565-41-9  
**NC CODE** 2930 90 70  
**R:** 22-36/38



Assay	min. 99.5%
Appearance	passes test
Melting Point	40-43°C
<b>Absorbance of a 0.1M Solution (1-cm path vs water):</b>	
at 260 nm	max. 0.40
at 280 nm	max. 0.06

PRODUCT NO.	PACKING	CONT. BOX
F780.0005	5 g	
F780.0025	25 g Glass	
F780.0100	100 g	
F780.1000	1 kg	

Keep material refrigerated between 2-8°C (36-46°F).

### CLk-222 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### CLk-288 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### CLk-820 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### CLk-888 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### CMOS chemicals

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
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X  
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Z

# GC solvents and reagents



## Gas Chromatography

### ULTRA RESI ANALYZED

#### solvents and salts for the industries:

- Pharmaceutical
- Food and Agriculture
- Environmental

#### We offer ultra high purity solvents and salts for:

- Organic residue extraction/concentration procedures
- Purge and trap analysis

Check our extensive line of ULTRA RESI ANALYZED solvent and reagents at [www.jtbaker.com](http://www.jtbaker.com)

Application fields of Ultra Resi Analyzed	Pesticide residues	PCB and Dioxine	PAH (Polycyclic Aromatic Hydrocarbons)	EOX	Various pharma applications	Capillary GC	GC/MS
Pharmaceutical							
Food and Agriculture							
Environmental (water and soil)							

## pCMP 800, pCMP 850 cleaners

See for detailed information section [Microelectronic materials page 32](#) or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Cobalt 1000 µg/ml

5712 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Co

**M** = 58.93 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 7 004 00 1  
**R:** 36/38  
**S:** 26



**Certificate Provided Reporting Actual Lot Analysis**

Cobalt (Co) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5712.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Cobalt 1000 µg/ml

6927 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Co

**M** = 58.93 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



Cobalt (Co) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6927.0100	100 ml	
6927.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Cobalt 1000 µg/ml

6810 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Co

**M** = 58.93 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



Cobalt (Co) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6810.0100	100 ml	
6810.0500	500 ml	

Cobalt nitrate in nitric acid 0.5 mol/l.

### Cobalt 10000 µg/ml

5728 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Co

**M** = 58.93 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 7 004 00 1  
**R:** 36/38-43  
**S:** 24-36/37



**Certificate Provided Reporting Actual Lot Analysis**

Cobalt (Co) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5728.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Cobalt Acetate Tetrahydrate

1057 'BAKER ANALYZED'

▶ (CH<sub>3</sub>COO)<sub>2</sub>Co·4H<sub>2</sub>O

**M** = 249.08 g/mol  
**CAS NO.** 6147-53-1  
**EINECS** 200-755-8  
**NC CODE** 2915 23 00  
**R:** 22-42/43  
**S:** 22-24-37



Assay (by EDTA titrn.)	min. 99.0%
Chloride (Cl)	max. 0.001%
Copper (Cu) (by AAS)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe) (by AAS)	max. 0.001%
Lead (Pb) (by AAS)	max. 0.001%
Nickel (Ni) (by AAS)	max. 0.15%
Nitrate (NO <sub>3</sub> )	max. 0.015%
pH of 5% Solution at 25°C	6.0-7.5
Sulfate (SO <sub>4</sub> )	max. 0.005%
Zinc (Zn) (by AAS)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1057.0100	100 g	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Cobalt Chloride Hexahydrate

'BAKER ANALYZED' / ACS

1059

▶  $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ 

M = 237.93 g/mol

CAS NO. 7791-13-1

EINECS 231-589-4

NC CODE 2827 34 00

EC NO. 27 004 00 5

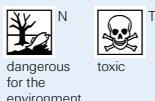
UN/ID NO. 3288

ADR/RID 6.1 T5

IMDG 6.1/III

R: 22-42/43-49-50/53

S: 22-45-53-60-61

**Exceeds ACS Specifications. Meets Reagents****Specifications for testing USP/NF monographs**

Assay (by EDTA titrm.)	98.0-102.0%
Calcium (Ca)	max. 0.005%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
Lead (Pb)	max. 0.002%
Magnesium (Mg)	max. 0.005%
Nickel (Ni)	max. 0.1%
Nitrate ( $\text{NO}_3$ )	max. 0.01%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate ( $\text{SO}_4$ )	max. 0.01%
Zinc (Zn)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
1059.0100	100 g	
1059.0250	250 g	6

## Cobalt Nitrate Hexahydrate

'BAKER ANALYZED' / ACS

0091

▶  $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ 

M = 291.04 g/mol

CAS NO. 10026-22-9

EINECS 233-402-1

NC CODE 2834 29 80

UN/ID NO. 1477

ADR/RID 5.1 O2

IMDG 5.1/II

R: 22-40-43

S: 36-37

**Exceeds ACS Specifications. Meets Reagents****Specifications for testing USP/NF monographs**

Assay (by EDTA titrm.)	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.002%
Magnesium (Mg)	max. 0.005%
Nickel (Ni)	max. 0.15%
pH of 5% Solution at 25°C	3.0-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate ( $\text{SO}_4$ )	max. 0.005%
Zinc (Zn)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0091.0500	500 g	

## Cobalt Sulfate Heptahydrate

'BAKER ANALYZED'

0093

▶  $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$ 

M = 281.10 g/mol

CAS NO. 10026-24-1

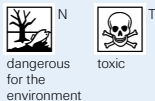
EINECS 233-334-2

NC CODE 2833 29 30

EC NO. 27 005 00 0

R: 22-42/43-49-50/53

S: 22-45-53-60-61



Assay (by EDTA titrm.)	97.0-103.0%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
Lead (Pb)	max. 0.002%
Nickel (Ni)	max. 500 ppm
Nitrate ( $\text{NO}_3$ )	max. 0.005%
pH of 5% Solution at 25°C	3.0-7.0
Zinc (Zn)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0093.0500	500 g	
0093.9050	50 kg	

## Sym-Colidine

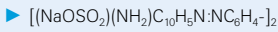
See 2,4,6-Trimethylpyridine

## Collodion

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Congo Red

1262 'BAKER'



M = 696.68 g/mol

CAS NO. 573-58-0

EINECS 209-358-4

NC CODE 3204 14 00

EC NO. 611 027 00 8

R: 45-63

S: 45-53

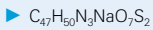


toxic

PRODUCT NO.	PACKING	CONT. BOX
1262.0100	100 g	

## COOMASSIE Brilliant Blue G-250

1473 'BAKER'



M = 854.03 g/mol

CAS NO. 6104-58-1

EINECS 228-058-4

NC CODE 3204 12 00

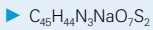
Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
1473.0025	25 g Glass	

C.I.42655.

## COOMASSIE Brilliant Blue R-250

1474 'BAKER'



M = 825.98 g/mol

CAS NO. 6104-59-2

EINECS 228-060-5

NC CODE 3204 12 00

PRODUCT NO.	PACKING	CONT. BOX
1474.0005	5 g	

C.I. 42660.

## Copper

9503 Heavy Foil 0.125 mm (0.005") / 'BAKER ANALYZED'



M = 63.55 g/mol

CAS NO. 7440-50-8

EINECS 231-159-6

NC CODE 7408 19 90

Assay	min. 99.90%
Antimony and Tin (as Sn)	max. 0.005%
Insoluble in $\text{HNO}_3$	max. 0.02%
Iron (Fe)	max. 0.01%
Lead (Pb)	max. 0.005%
Manganese (Mn)	max. 0.001%
Phosphorus (P)	max. 0.001%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9503.0500	500 g	

## Copper

9504 Wire 0.50 mm Ø / 'BAKER ANALYZED' / ACS



M = 63.55 g/mol

CAS NO. 7440-50-8

EINECS 231-159-6

NC CODE 7408 19 90

<b>Exceeds ACS Specifications</b>	
Assay	min. 99.90%
Antimony and Tin (as Sn)	max. 0.005%
Arsenic (As)	max. 5 ppm
Insoluble in diluted $\text{HNO}_3$	max. 0.02%
Iron (Fe)	max. 0.005%
Lead (Pb)	max. 0.005%
Manganese (Mn)	max. 0.001%
Phosphorus (P)	max. 0.001%
Silver (Ag)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
9504.0500	500 g	

## Copper

1728 Powder / Purified



M = 63.55 g/mol

CAS NO. 7440-50-8

EINECS 231-159-6

NC CODE 7408 19 90

Assay (Cu)	min. 99.0%
Insoluble Matter in $\text{HNO}_3$	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1728.0500	500 g	
1728.9012	12 kg	

**Copper 1000 µg/ml**

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5713

▶ Cu

**M** = 63.55 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



**Certificate Provided Reporting Actual Lot Analysis**

Copper (Cu) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5713.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

**Copper 1000 µg/ml**

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6928

▶ Cu

**M** = 63.55 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



Copper (Cu) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6928.0100	100 ml	
6928.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

**Copper 1000 µg/ml**

'BAKER ANALYZED' / Atomic Absorption Standard

6811

▶ Cu

**M** = 63.55 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



Copper (Cu) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6811.0100	100 ml	
6811.0500	500 ml	

Copper(II)nitrate in nitric acid 0.5 mol/l.

**Copper 10000 µg/ml**

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5729

▶ Cu

**M** = 63.55 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



**Certificate Provided Reporting Actual Lot Analysis**

Copper (Cu) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5729.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

**Copper(II) Acetate Monohydrate**

'BAKER ANALYZED' / ACS

0095

▶ (CH<sub>3</sub>COO)<sub>2</sub>Cu.H<sub>2</sub>O

**M** = 199.65 g/mol  
**CAS NO.** 6046-93-1  
**EINECS** 205-553-3  
**NC CODE** 2915 29 00  
**R**: 22  
**S**: 24



**Exceeds ACS Specifications**

Assay (by Iodometry)	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Nickel (Ni)	max. 0.01%
pH of 5% Solution at 25°C	5.0-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0095.0250	250 g	
0095.9050	50 g	

## Copper(II) Bromide

1067 'BAKER ANALYZED'

▶ CuBr<sub>2</sub>

**M** = 223.35 g/mol  
**CAS NO.** 7789-45-9  
**EINECS** 232-167-2  
**NC CODE** 2827 59 00  
**UN/ID NO.** 1759  
**ADR/RID** 8 C10  
**IMDG** 8/III  
**R:** 22-34  
**S:** 26-36/39-45



Assay	min 98%
Chloride (Cl)	max. 0.3%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
pH of 5% Solution at 25°C	2.5-4.5
Sulfate (SO <sub>4</sub> )	max. 0.01%

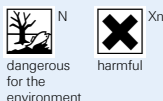
PRODUCT NO.	PACKING	CONT. BOX
1067.0500	500 g	

## Copper(I) Chloride

0108 powder / 'BAKER ANALYZED' / ACS

▶ CuCl

**M** = 99.00 g/mol  
**CAS NO.** 7758-89-6  
**EINECS** 231-842-9  
**NC CODE** 2827 39 90  
**EC NO.** 29 001 00 4  
**UN/ID NO.** 2802  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 22-50/53  
**S:** 22-60-61



### Meets ACS Specifications

Assay (CuCl)	min. 90.0%
Calcium (Ca)	max. 0.01%
Insoluble in Acid	max. 0.02%
Iron (Fe)	max. 0.005%
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.1%

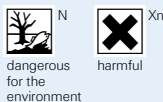
PRODUCT NO.	PACKING	CONT. BOX
0108.0500	500 g	

## Copper(II) Chloride Dihydrate

0097 'BAKER ANALYZED'

▶ CuCl<sub>2</sub>·2H<sub>2</sub>O

**M** = 170.48 g/mol  
**CAS NO.** 10125-13-0  
**EINECS** 231-210-2  
**NC CODE** 2827 39 80  
**UN/ID NO.** 2802  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 22-36/38-50/53  
**S:** 22-26-61



Assay	99.0-101.0%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
Nickel (Ni)	max. 0.01%
Nitrate (NO <sub>3</sub> )	max. 0.005%
pH of 5% Solution at 25°C	2.0-4.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0097.0250	250 g	



Up-to-date product specifications  
 are available online  
 at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)



### Copper(II) Chloride Dihydrate

'BAKER'


0515

▶ $CuCl_2 \cdot 2H_2O$ <b>M</b> = 170.48 g/mol <b>CAS NO.</b> 10125-13-0 <b>EINECS</b> 231-210-2 <b>NC CODE</b> 2827 39 80 <b>UN/ID NO.</b> 2802 <b>ADR/RID</b> 8 C2 <b>IMDG</b> 8/III <b>R:</b> 22-36/38-50/53 <b>S:</b> 22-26-61  N  Xn harmful	Assay	min. 95%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Insoluble Matter	max. 0.05%	<b>NO.</b>		<b>BOX</b>
			0515.1000	1 kg	

### Copper(II) Nitrate 2.5-Hydrate

'BAKER ANALYZED' / ACS


0099

▶ $Cu(NO_3)_2 \cdot 2.5H_2O$ <b>M</b> = 232.59 g/mol <b>CAS NO.</b> 3251-23-8 <b>EINECS</b> 221-838-5 <b>NC CODE</b> 2834 29 30 <b>UN/ID NO.</b> 1477 <b>ADR/RID</b> 5.1 O2 <b>IMDG</b> 5.1/II <b>R:</b> 22-36/38 <b>S:</b> 24/25  Xn harmful	<b>Exceeds ACS Specifications</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Assay	98.0-102.0%	<b>NO.</b>		<b>BOX</b>
	Calcium (Ca)	max. 0.005%	0099.0250	250 g	
	Chloride (Cl)	max. 0.002%	0099.9050	50 kg	
	Insoluble Matter	max. 0.01%			
	Iron (Fe)	max. 0.005%			
	Lead (Pb)	max. 0.001%			
	Nickel (Ni)	max. 0.01%			
	pH of 5% Solution at 25°C	3.0-4.0			
	Potassium (K)	max. 0.005%			
	Sodium (Na)	max. 0.01%			
	Sulfate (SO <sub>4</sub> )	max. 0.005%			

### Copper(I) Oxide

'BAKER ANALYZED'


1878-01

▶ $Cu_2O$ <b>M</b> = 143.09 g/mol <b>CAS NO.</b> 1317-39-1 <b>EINECS</b> 215-270-7 <b>NC CODE</b> 2825 50 00 <b>EC NO.</b> 29 002 00 0 <b>R:</b> 22 <b>S:</b> 22-36-60  Xn harmful	Assay	min. 96.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Chloride (Cl)	max. 0.5%	<b>NO.</b>		<b>BOX</b>
	Free Copper (Cu)	act. value reported	1878-01	500 g HDPE	
	Insoluble in HNO <sub>3</sub>	max. 0.3%			
	Iron (Fe)	max. 0.05%			
	Preservative (Zinc Stearate)	0.2-0.5%			
	Sulfate (SO <sub>4</sub> )	max. 0.05%			

### Copper(II) Oxide

Wire / 'BAKER ANALYZED' / ACS

0102

▶ $CuO$ <b>M</b> = 79.55 g/mol <b>CAS NO.</b> 1317-38-0 <b>EINECS</b> 215-269-1 <b>NC CODE</b> 2825 50 00 <b>R:</b> 22 <b>S:</b> 36-60  Xn harmful	<b>Exceeds ACS Specifications</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Carbon Compounds (as C)	max. 0.002%	<b>NO.</b>		<b>BOX</b>
	Nitrogen Compounds (as N)	max. 0.001%	0102.9050	50 kg	
	Sulfate (SO <sub>4</sub> )	max. 0.012%			

## Copper(II) Oxide

0101 Powder / 'BAKER ANALYZED' / ACS

▶ CuO

**M** = 79.55 g/mol  
**CAS NO.** 1317-38-0  
**EINECS** 215-269-1  
**NC CODE** 2825 50 00  
**R:** 22  
**S:** 36-60



harmful

### Exceeds ACS Specifications

Assay	min. 99.0%
Average Particle Diameter, $\mu\text{m}$ (APD) (by Sedigraph)(typical)	vol
Bulk Density (g/cc)(typical)	vol
Calcium (Ca)	max. 0.01%
Carbon Compounds (as C)	max. 0.01%
Chloride (Cl)	max. 0.005%
Free Alkali	passes test
Insoluble in Dilute HCl	max. 0.02%
Iron (Fe)	max. 0.05%
Nitrogen Compounds (as N)	max. 0.002%
Potassium (K)	max. 0.02%
Silicon (Si)	vol
Sodium (Na)	max. 0.05%
Specific Surface Area, $\text{m}^2/\text{g}$ (typical)	vol
Sulfate ( $\text{SO}_4$ )	max. 0.02%
<b>Mesh (Wet Screen Analysis):</b>	
On U.S. No. 325 Sieve	vol

PRODUCT NO.	PACKING	CONT. BOX
0101.0500	500 g	
0101.9050	50 kg	

vol = value on label.

## Copper(II) Sulfate Anhydrous

0107 'BAKER ANALYZED'

▶ CuSO<sub>4</sub>

**M** = 159.61 g/mol  
**CAS NO.** 7758-98-7  
**EINECS** 231-847-6  
**NC CODE** 2833 25 00  
**EC NO.** 29 004 00 0  
**UN/ID NO.** 3077  
**ADR/RID** 9 M7  
**IMDG** 9/III  
**R:** 22-36/38-50/53  
**S:** 22-60-61



dangerous for the environment



harmful

Assay (by Iodometry)	min. 99.0%
Ammonium Sulfide Metals, other than Iron (as Ni)	max. 0.01%
Chloride (Cl)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%
pH of 5% Solution at 25°C	3.0-5.0

PRODUCT NO.	PACKING	CONT. BOX
0107.1000	1 kg	
0107.9050	50 kg	

## Copper(II) Sulfate Pentahydrate

0104 Fine Crystals / 'BAKER ANALYZED' / ACS

▶ CuSO<sub>4</sub>·5H<sub>2</sub>O

**M** = 249.68 g/mol  
**CAS NO.** 7758-99-8  
**EINECS** 231-847-6  
**NC CODE** 2833 25 00  
**EC NO.** 29 004 00 0  
**UN/ID NO.** 3077  
**ADR/RID** 9 M7  
**IMDG** 9/III  
**R:** 22-36/38-50/53  
**S:** 22-60-61



dangerous for the environment



harmful

### Exceeds ACS Specifications

Assay	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.003%
Nickel (Ni)	max. 0.005%
Nitrogen Compounds (as N)	max. 0.001%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%

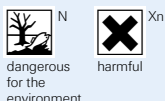
PRODUCT NO.	PACKING	CONT. BOX
0104.0250	250 g	6
0104.1000	1 kg	6
0104.9050	50 kg	

## Copper(II) Sulfate Pentahydrate

'BAKER'

0105

▶ $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	Assay	98.5-100.5%
<b>M</b> = 249.68 g/mol		
<b>CAS NO.</b> 7758-99-8		
<b>EINECS</b> 231-847-6		
<b>NC CODE</b> 2833 25 00		
<b>EC NO.</b> 29 004 00 0		
<b>UN/ID NO.</b> 3077		
<b>ADR/RID</b> 9 M7		
<b>IMDG</b> 9/III		
<b>R:</b> 22-36/38-50/53		
<b>S:</b> 22-60-61		



PRODUCT NO.	PACKING	CONT. BOX
0105.1000	1 kg	6
0105.5000	5 kg	
0105.9050	50 kg	

## Copper(II) Sulfate

0.1 mol/l / 'BAKER ANALYZED'

7251

▶ $\text{CuSO}_4$	Titer (mol/l)	0.0995-0.1005
<b>M</b> = 159.61 g/mol		
<b>NC CODE</b> 2833 25 00		
<b>R:</b> 52/53		
<b>S:</b> 61		

PRODUCT NO.	PACKING	CONT. BOX
7251.1000	1 l	6

## o-Cresol

'BAKER'

7085

▶ $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$	Assay (by GC)	min. 98%
<b>M</b> = 108.14 g/mol	Boiling Point	189-191°C
<b>FLASHPOINT</b> 81 °C	Freezing Point	29-31°C
<b>CAS NO.</b> 95-48-7		
<b>EINECS</b> 202-423-8		
<b>NC CODE</b> 2907 12 00		
<b>EC NO.</b> 604 004 00 9		
<b>UN/ID NO.</b> 2076		
<b>ADR/RID</b> 6.1 TC2		
<b>IMDG</b> 6.1/II		
<b>R:</b> 24/25-34		
<b>S:</b> 36/37/39-45		



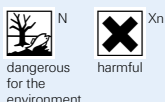
PRODUCT NO.	PACKING	CONT. BOX
7085.1000	1 l	

## Crystal Violet

'BAKER ANALYZED'

1065

▶ $[(\text{CH}_3)_2\text{NC}_6\text{H}_4]_2\text{C}:\text{C}_6\text{H}_4:\text{N}(\text{CH}_3)_2\text{Cl}$	Assay (dried basis)	min. 90%
<b>M</b> = 408.00 g/mol	Adsorbance	passes test
<b>CAS NO.</b> 548-62-9	Insoluble Matter	passes test
<b>EINECS</b> 208-953-6	Loss on Drying	max. 4%
<b>NC CODE</b> 3204 13 00	Sensitivity	passes test
<b>R:</b> 22-40-41-50/53	<b>Visual Transition Interval:</b>	
<b>S:</b> 22-26-36/37/39-61	pH (green)	0.8
	pH (violet)	2.6



PRODUCT NO.	PACKING	CONT. BOX
1065.0025	25 g Glass	
C.I. 42555		

## Cupric Sulfate, 5-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



**9258** 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

▶  $\text{CH}_2(\text{CH}_2)_4\text{CH}_2$   
**M** = 84.16 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** - 18 °C  
**CAS NO.** 110-82-7  
**EINECS** 203-806-2  
**NC CODE** 2902 11 00  
**EC NO.** 601 017 00 1  
**UN/ID NO.** 1145  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-50/53-65-67  
**S:** 16-33-60-61-62-9



Assay (by GC) (corrected for water)	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 2 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Water (by KF, coulometric)	max. 100 ppm
<b>ECD Sensitive Impurities (as Heptachlor Epoxide):</b>	
Single Impurity Peak (pg/ml)	max. 10
<b>FID-Sensitive Impurities (as 2-Octanol):</b>	
Single Impurity Peak (ng/ml)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
9258.1000	1 l	6
9258.2500	2.5 l	4

**9292** 'BAKER HPLC ANALYZED' / for Use in Liquid Chromatography and Spectrophotometry

▶  $\text{CH}_2(\text{CH}_2)_4\text{CH}_2$   
**M** = 84.16 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** - 18 °C  
**CAS NO.** 110-82-7  
**EINECS** 203-806-2  
**NC CODE** 2902 11 00  
**EC NO.** 601 017 00 1  
**UN/ID NO.** 1145  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-50/53-65-67  
**S:** 16-33-60-61-62-9



Assay (by GC) (corrected for water)	min. 99.5%
Residue after Evaporation	max. 2 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Water (by KF, coulometric)	max. 0.01%
<b>Fluorescence Trace Impurities (as quinine base), ppb:</b>	
Measured at 450 nm	max. 0.5
Measured at Emission Maximum	max. 1.0
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 220 nm	max. 0.30
at 230 nm	max. 0.20
at 240 nm	max. 0.08
at 254-400 nm	max. 0.01
UV Cut-off, nm	max. 205

PRODUCT NO.	PACKING	CONT. BOX
9292.4000	4 l Glass	4

Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

**8026** 'BAKER ANALYZED' / ACS

▶  $\text{CH}_2(\text{CH}_2)_4\text{CH}_2$   
**M** = 84.16 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** - 18 °C  
**CAS NO.** 110-82-7  
**EINECS** 203-806-2  
**NC CODE** 2902 11 00  
**EC NO.** 601 017 00 1  
**UN/ID NO.** 1145  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-50/53-65-67  
**S:** 16-33-60-61-62-9



<b>Exceeds ACS Specifications</b>	
Assay (by GC)	min. 99.0%
Appearance	clear
Color (APHA)	max. 10
Residue after Evaporation	max. 0.002%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Water (H <sub>2</sub> O)	max. 0.02%
<b>Trace Impurities (in ppm):</b>	
Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

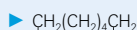
PRODUCT NO.	PACKING	CONT. BOX
8026.1000	1 l	6
8026.2500	2.5 l	4
8026.5000	5 l EcoTainer	4
8026.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.

## Cyclohexane

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

8706

**M** = 84.16 g/mol**1 l** = 0.78 kg**FLASHPOINT** - 18 °C**CAS NO.** 110-82-7**EINECS** 203-806-2**NC CODE** 2902 11 00**EC NO.** 601 017 00 1**UN/ID NO.** 1145**ADR/RID** 3 F1**IMDG** 3/II**R:** 11-38-50/53-65-67**S:** 16-33-60-61-62-9dangerous  
for the  
environment

harmful

highly  
flammable**Meets ACS Specifications**

Assay (by GC)	min. 99.0%
Appearance	clear
Color (APHA)	max. 10
Residue after Evaporation	max. 0.002%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Water (H <sub>2</sub> O)	max. 0.02%

**Ultraviolet Absorbance (1.00-cm path vs water):**

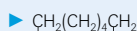
at 210 nm	max. 1.00
at 220 nm	max. 0.50
at 230 nm	max. 0.20
at 240 nm	max. 0.08
at 250 nm	max. 0.03
at 260 nm	max. 0.02
at 300-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8706.1000	1 l	
8706.2500	2.5 l	

## Cyclohexane

'BAKER'

8104

**M** = 84.16 g/mol**1 l** = 0.78 kg**FLASHPOINT** - 18 °C**CAS NO.** 110-82-7**EINECS** 203-806-2**NC CODE** 2902 11 00**EC NO.** 601 017 00 1**UN/ID NO.** 1145**ADR/RID** 3 F1**IMDG** 3/II**R:** 11-38-50/53-65-67**S:** 16-33-60-61-62-9dangerous  
for the  
environment

harmful

highly  
flammable

Assay (by GC)	min. 99%
Residue after Evaporation	max. 0.005%
Water (H <sub>2</sub> O)	max. 0.02%

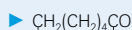
PRODUCT NO.	PACKING	CONT. BOX
8104.1000	1 l	6
8104.2500	2.5 l	4
8104.9025	25 l	
8104.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Cyclohexanone

'BAKER'

8028

**M** = 98.15 g/mol**1 l** = 0.94 kg**FLASHPOINT** 43 °C**CAS NO.** 108-94-1**EINECS** 203-806-2**NC CODE** 2914 22 00**EC NO.** 606 010 00 7**UN/ID NO.** 1915**ADR/RID** 3 F1**IMDG** 3/III**R:** 10-20**S:** 25

harmful

Boiling Range	153-157°C
Water (H <sub>2</sub> O)	max. 0.5%

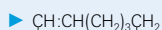
PRODUCT NO.	PACKING	CONT. BOX
8028.2500	2.5 l	

## Cyclohexanone M05 Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Cyclohexene

G045-01 'BAKER'



**M** = 82.15 g/mol

**1 l** = 0.81 kg

**FLASHPOINT** < -20 °C

**CAS NO.** 110-83-8

**EINECS** 203-807-8

**NC CODE** 2902 19 80

**UN/ID NO.** 2256

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-22-36/37

**S:** 16-23-33-9



harmful



highly flammable

Assay (by GC)

min. 99%

PRODUCT NO.	PACKING	CONT. BOX
G045-01	1 l Glass	

### ▶ 2-(cyclohexylamino)ethanesulfonic acid, Sodium salt

See CHES, Sodium salt

### ▶ 3-(Cyclohexylamino)-1-propanesulfonic acid

See CAPS

### ▶ L-Cysteine

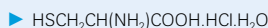
See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### ▶ L-Cysteine Hydrochloride, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## L(+)-Cysteinium Chloride Monohydrate

1576 'BAKER ANALYZED' Biochemical



**M** = 175.64 g/mol

**CAS NO.** 52-89-1

**EINECS** 200-157-7

**NC CODE** 2930 90 16

#### Meets NAS/NRC Specifications and Criteria for Biochemical Compounds

Assay	98.5-100.5%
Heavy Metals (as Pb)	max. 0.001%
Homogeneity (by TLC)	passes test
Iron (Fe)	max. 0.003%
Residue after Ignition	max. 0.1%
Specific Rotation $[\alpha]_D^{25}$ (c=2 in 5M HCl, calcd. as cysteine)	+6.03° to +7.03°
Sulfate ( $\text{SO}_4$ )	max. 0.03%
Water Insoluble Matter	passes test

#### Trace Impurities (in ppm):

Arsenic (As)	max. 1
--------------	--------

PRODUCT NO.	PACKING	CONT. BOX
1576.0100	100 g	
1576.1000	1 kg	

### ▶ DCYTA

See trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraacetic Acid

### ▶ DEAE Cellulose

See Cellulose DEAE

### ▶ Deblock reagents for use in DNA synthesis

See for detailed information section Reagents for DNA/RNA Synthesis, page 261

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

### Deblock-DCA (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9518

**1 l** = 1.34 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2927  
**ADR/RID** 6.1 TC1  
**IMDG** 6.1/II  
**R:** 36/38-40  
**S:** 23-25-26-3



#### Suitable for Oligonucleotide Synthesis

Assay (Dichloroacetic Acid) 2.90-3.10% (w/v)  
 Appearance: clear, colorless solution free from visible particulates passes test  
 Water (H<sub>2</sub>O) max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
9518.0900	900 ml Glass	
9518.2500	2.5 l Glass	
9518.4000GL	4 l Glass	

### Deblock-TCA (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9448

**1 l** = 1.34 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2927  
**ADR/RID** 6.1 TC1  
**IMDG** 6.1/II  
**R:** 36/37/38-40-52/53  
**S:** 23-25-26-3-36/37-61



#### Suitable for Oligonucleotide Synthesis

Assay (Trichloroacetic Acid) 2.90-3.10% (w/v)  
 Appearance: clear, colorless solution free from visible particulates passes test  
 Water (H<sub>2</sub>O) max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
9448.0450	450 ml Glass	
9448.2000	2 l Glass	
9448.2500	2.5 l Glass	

### Deblock-TCA (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9451

**1 l** = 1.34 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2927  
**ADR/RID** 6.1 TC1  
**IMDG** 6.1/II  
**R:** 36/37/38-40-52/53  
**S:** 23-25-26-3-36/37-61



#### Suitable for Oligonucleotide Synthesis

Assay (Trichloroacetic Acid) 2.90-3.10% (w/v)  
 Appearance: clear, colorless solution free from visible particulates passes test  
 Water (H<sub>2</sub>O) max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
9451.0180	180 ml Glass	
9451.0900	900 ml Glass	

### Deblock TCA-DCE (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9449

**1 l** = 1.25 kg  
**FLASHPOINT** 13 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-22-36/37/38-45-52/53  
**S:** 16-20-26-33-53-9



#### Suitable for Oligonucleotide Synthesis

Assay (Trichloroacetic Acid) 2.90-3.10%  
 Appearance: clear, colorless solution free from visible particulates passes test  
 Water (H<sub>2</sub>O) max. 100 ppm

PRODUCT NO.	PACKING	CONT. BOX
9449.2000GL	2 l Glass	
9449.2500	2.5 l	
9449.4000	4 l Glass	

Find our up-to-date Product Literature at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Decahydronaphthalene

7080 *cis-trans mixture / 'BAKER'*

▶ C <sub>10</sub> H <sub>18</sub>	Assay (by GC)	min. 98%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 138.25 g/mol			7080.2500	2.5 l	4
<b>1 l</b> = 0.88 kg					
<b>FLASHPOINT</b> 58 °C					
<b>CAS NO.</b> 91-17-8					
<b>EINECS</b> 202-046-9					
<b>NC CODE</b> 2902 19 80					
<b>UN/ID NO.</b> 1147					
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/III					
<b>R:</b> 10-65					
<b>S:</b> 16-36-60-9					

## Decalcifier, rapid

3930 **HISTO GRADE**

<b>NC CODE</b> 3822 00 00			<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>UN/ID NO.</b> 3264			3930.2500	2.5 l HDPE	
<b>ADR/RID</b> 8 C1					
<b>IMDG</b> 8/III					

Ready to use for Histo-Pathology applications.  
Rapid Decalcifier contains an acid mixture.

## ▶ Decalin

See Decahydronaphthalene

## n-Decane

8168 **'BAKER'**

▶ CH <sub>3</sub> (CH <sub>2</sub> ) <sub>8</sub> CH <sub>3</sub>	Assay (by GC)	min. 99%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 142.29 g/mol	Boiling Point	173-174°C	8168.0500	500 ml	
<b>1 l</b> = 0.73 kg					
<b>FLASHPOINT</b> 46 °C					
<b>CAS NO.</b> 124-18-5					
<b>EINECS</b> 204-686-4					
<b>NC CODE</b> 2901 10 00					
<b>UN/ID NO.</b> 2247					
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/III					
<b>R:</b> 10-65					
<b>S:</b> 23A-24-62					

## ▶ Decanedioyl Chloride

See Sebacoyl Chloride

## ▶ Deuteriochloroform

See Chloroform-d<sub>1</sub>

## Devarda's Alloy

0112 **'BAKER ANALYZED'**

<b>NC CODE</b> 7403 29 00	Aluminium (Al)	44 - 46%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Copper (Cu)	49 - 51%	0112.0500	500 g	
	Nitrogen (N)	max. 0.005%			
	Zinc (Zn)	4-6%			



### Dextrose, Anhydrous

ULTREX Ultrapure Reagent

4893

▶  $\text{HOCH}_2\text{CH}(\text{CHOH})_4\text{O}$   
**M** = 180.16 g/mol  
**CAS NO.** 50-99-7  
**EINECS** 200-075-1  
**NC CODE** 1702 30 51

**Certificate Provided Reporting Actual Lot Analysis**

**Actual Analysis Lot. No. N23H06**

Ash (sulfated)	< 0.01%
Loss on Drying at 105°C	0.04%
Particulate Matter	< 0.001%
Specific Rotation $[\alpha]_D^{20}$ (c = 10 in water)	52.7 °
Starch	passes test
Titration Acid ( $\mu\text{eq/g}$ )	0.0008

**Metallic Impurities in parts per million ( $\mu\text{g/g}$ ):**

Aluminium (Al)	0.1
Cadmium (Cd)	< 0.1
Calcium (Ca)	0.3
Chromium (Cr)	0.1
Cobalt (Co)	< 0.01
Copper (Cu)	0.3
Iron (Fe)	0.3
Lead (Pb)	0.1
Magnesium (Mg)	0.3
Manganese (Mn)	< 0.005
Molybdenum (Mo)	< 0.01
Nickel (Ni)	< 0.01
Silver (Ag)	0.3
Sodium (Na)	3
Tin (Sn)	1
Titanium (Ti)	0.1
Vanadium (V)	< 0.01
Zinc (Zn)	< 0.1

**Non-Metallic Impurities in parts per million ( $\mu\text{g/g}$ ):**

Arsenic (As)	< 1
Boron (B)	0.01
Chloride (Cl)	50
Nitrogen Compounds (as N)	< 2
Silicon (Si)	0.3
Sulfate and Sulfite (as $\text{SO}_4$ )	< 50

PRODUCT NO.	PACKING	CONT. BOX
4893.0100	100 g Glass	

### Dextrose, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Dextrose, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### 2,7-Diamino-10-ethyl-9-phenyl-phenanthridinium bromide

See Ethidium Bromide

### trans-1,2-Diaminocyclohexane-N,N,N',N'-tetracetic Acid

'BAKER ANALYZED'

1269

▶  $(\text{HOOCCH}_2)_2\text{NCH}(\text{CH}_2)_4\text{CHN}(\text{CH}_2\text{COOH})_2\cdot\text{H}_2\text{O}$   
**M** = 364.36 g/mol  
**CAS NO.** 13291-61-7  
**EINECS** 236-308-9  
**NC CODE** 2922 49 95

Assay	min. 99%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.1%
Sulfate ( $\text{SO}_4$ )	max. 0.01%
Water ( $\text{H}_2\text{O}$ )	4.8-5.6%

PRODUCT NO.	PACKING	CONT. BOX
1269.0025	25 g Glass	

### trans-1,2-Diaminocyclohexane-N,N,N',N'-tetracetic acid, Sodium Salt

0.1 mol/l / 'BAKER ANALYZED'

7244

**NC CODE** 2922 49 70      Titer      0.095-0.105 mol/l

PRODUCT NO.	PACKING	CONT. BOX
7244.1000	1 l	

### 1,2-Diaminoethane

See Ethylenediamine

A  
B  
C  
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G  
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J  
K  
L  
M  
N  
O  
P  
Q  
R  
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U  
V  
W  
X  
Y  
Z

## Diammonium Hydrogen Citrate

See Ammonium Hydrogen Citrate

## Diammonium Hydrogen Phosphate

See Ammonium Hydrogen Phosphate

## Diamond Fuchsin

0619 'BAKER ANALYZED'

▶ (CH <sub>3</sub> )(NH <sub>2</sub> )C <sub>6</sub> H <sub>3</sub> C(C <sub>6</sub> H <sub>4</sub> NH <sub>2</sub> ):C <sub>6</sub> H <sub>4</sub> :NH.HCl M = 337.86 g/mol CAS NO. 632-99-5 EINECS 211-189-6 NC CODE 2925 20 00	Insoluble Matter	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	<b>Visual Transition Interval:</b>		0619.0025	25 g Glass	6
	pH 1.0	purple			
	pH 3.1	red	C.I.42510.		

## 1,3-Diazole



See Imidazole

## 5',5-Dibromo-o-cresolsulfonphthalein

See Bromocresol Purple

## 1,2-Dibromoethane

7368 'BAKER'


▶ CH <sub>2</sub> BrCH <sub>2</sub> Br M = 187.86 g/mol 1 l = 2.15 kg CAS NO. 106-93-4 EINECS 203-444-5 NC CODE 2903 30 36 EC NO. 602 010 00 6 UN/ID NO. 1605 ADR/RID 6.1 T1 IMDG 6.1/I R: 23/24/25-36/37/38-45-51/53 S: 45-53-61  dangerous for the environment  toxic	Assay (by GC)	min. 96%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Appearance	clear	7368.1000	1 l	
	Color (APHA)	max. 30			

## 3',3-Dibromothymolsulfonphthalein

See Bromothymol Blue

## Dibutylamine

8578 'BAKER'

▶ (CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> NH M = 129.25 g/mol 1 l = 0.76 kg FLASHPOINT 39 °C CAS NO. 111-92-2 EINECS 203-921-8 NC CODE 2921 19 80 EC NO. 612 049 00 0 UN/ID NO. 2248 ADR/RID 8 CF1 IMDG 8/II R: 10-20/21/22  harmful	Assay	min. 99%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			8578.1000	1 l	

A  
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K  
L  
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R  
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T  
U  
V  
W  
X  
Y  
Z

## Dibutyl Phtalate

'BAKER'

7024

C <sub>8</sub> H <sub>4</sub> (COOC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>		Assay	min. 99.0%	PRODUCT	PACKING	CONT.
<b>M</b> =	278.35 g/mol	Density (g/ml) at 25°C	1.041-1.043	<b>NO.</b>		<b>BOX</b>
<b>1 l</b> =	1.04 kg			7024.1000	1 l	
<b>FLASHPOINT</b>	157 °C					
<b>CAS NO.</b>	84-74-2					
<b>EINECS</b>	201-557-4					
<b>NC CODE</b>	2917 31 00					
<b>EC NO.</b>	607 318 00 4					
<b>UN/ID NO.</b>	3082					
<b>ADR/RID</b>	9 M6					
<b>IMDG</b>	9/III					
<b>R:</b>	50-61-62					
<b>S:</b>	45-53-61					
	dangerous for the environment toxic					

## o-Dichlorobenzene

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9233

C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>		Assay (by GC) (corrected for water)	min. 98.5%	PRODUCT	PACKING	CONT.
<b>M</b> =	147.00 g/mol	Residue after Evaporation	max. 8 ppm	<b>NO.</b>		<b>BOX</b>
<b>1 l</b> =	1.30 kg	Water (H <sub>2</sub> O)	max. 0.02%	9233.1000	1 l	
<b>FLASHPOINT</b>	66 °C	<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>		9233.4000	4 l Glass	
<b>CAS NO.</b>	95-50-1	at 300 nm	max. 0.30			
<b>EINECS</b>	202-425-9	at 305 nm	max. 0.10			
<b>NC CODE</b>	2903 61 00	at 335 nm	max. 0.05			
<b>EC NO.</b>	602 034 00 7	at 375 nm	max. 0.01			
<b>UN/ID NO.</b>	1591	UV Cut-off, nm	max. 296			
<b>ADR/RID</b>	6.1 T1					
<b>IMDG</b>	6.1/III					
<b>R:</b>	22-36/37/38-50/53					
<b>S:</b>	23-60-61					
	dangerous for the environment harmful					
		Filtered through a 0.2 micron filter.				
		Packaged under Nitrogen.				

## o-Dichlorobenzene

'BAKER ANALYZED'

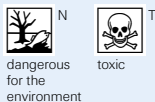
7025

C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>		Assay (by GC)	min. 99%	PRODUCT	PACKING	CONT.
<b>M</b> =	147.00 g/mol	Acidity (as HCl)	max. 0.005%	<b>NO.</b>		<b>BOX</b>
<b>1 l</b> =	1.30 kg	Boiling Range	179.5-181.5°C	7025.1000	1 l	
<b>FLASHPOINT</b>	66 °C	Density (g/ml) at 25°C	1.299-1.302			
<b>CAS NO.</b>	95-50-1	Residue after Evaporation	max. 0.005%			
<b>EINECS</b>	202-425-9	Water (H <sub>2</sub> O)	max. 0.05%			
<b>NC CODE</b>	2903 61 00					
<b>EC NO.</b>	602 034 00 7					
<b>UN/ID NO.</b>	1591					
<b>ADR/RID</b>	6.1 T1					
<b>IMDG</b>	6.1/III					
<b>R:</b>	22-36/37/38-50/53					
<b>S:</b>	23-60-61					
	dangerous for the environment harmful					

## o-Dichlorobenzene-Phenol Mix

7227 1:1 / 'BAKER ANALYZED' / for the viscosity determination of plastics, DIN 53728

**1 l** = 1.18 kg  
**FLASHPOINT** 79 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2810  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/II  
**R:** 23/24/25-34-37-48/20/21/22-50/53-68  
**S:** 26-28A-36/37/39-45-57



Color (APHA) max. 200  
 Water (H<sub>2</sub>O) max. 300 ppm

PRODUCT NO.	PACKING	CONT. BOX
7227.2500	2.5 l	

Volumetric Solution, ready for use.

## 1,2-Dichloroethane

8707 PHOTREX Reagent / For Spectrophotometry / ACS

▶ C<sub>2</sub>H<sub>4</sub>Cl<sub>2</sub>  
**M** = 98.96 g/mol  
**1 l** = 1.25 kg  
**FLASHPOINT** 13 °C  
**CAS NO.** 107-06-2  
**EINECS** 203-458-1  
**NC CODE** 2903 15 00  
**EC NO.** 602 012 00 7  
**UN/ID NO.** 1184  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-22-36/37/38-45  
**S:** 45-53



**Meets ACS Specifications**  
 Assay (by GC) (corrected for water) min. 99.0%  
 Appearance passes test  
 Color (APHA) max. 10  
 Residue after Evaporation max. 0.0005%  
 Titrable Acid (meq/g) max. 0.0003  
 Water (H<sub>2</sub>O) max. 0.03%

**Physical Data (not specifications):**  
 Boiling Point (typical) 83.5°C  
 Density (g/ml) at 25°C (typical) 1.246

**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 228 nm max. 1.00  
 at 230 nm max. 0.50  
 at 235 nm max. 0.20  
 at 240 nm max. 0.10  
 at 245 nm max. 0.05  
 at 250 nm max. 0.02  
 at 255 nm max. 0.01  
 at 400 nm max. 0.01

**Windows of Infrared Transmittance (0.1-mm path, 50-100% T), μm:**  
 2.5-3.3 passes test  
 3.4-6.7 passes test  
 7.2-7.4 passes test  
 8.3-9.6 passes test  
 9.8-10.4 passes test  
 11.6-12.7 passes test

PRODUCT NO.	PACKING	CONT. BOX
8707.0500	500 ml	

## 1,2-Dichloroethane

8042 'BAKER ANALYZED' / ACS

▶ C<sub>2</sub>H<sub>4</sub>Cl<sub>2</sub>  
**M** = 98.96 g/mol  
**1 l** = 1.25 kg  
**FLASHPOINT** 13 °C  
**CAS NO.** 107-06-2  
**EINECS** 203-458-1  
**NC CODE** 2903 15 00  
**EC NO.** 602 012 00 7  
**UN/ID NO.** 1184  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-22-36/37/38-45  
**S:** 45-53



**Meets ACS Specifications**  
 Assay (by GC) min. 99.0%  
 Appearance clear  
 Color (APHA) max. 10  
 Residue after Evaporation max. 0.002%  
 Titrable Acid (meq/g) max. 0.0003  
 Water (H<sub>2</sub>O) max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
8042.1000	1 l	6
8042.2500	2.5 l	4

A  
B  
C  
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K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## 1,2-Dichloroethane

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Dichloromethane

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9264

▶ CH<sub>2</sub>Cl<sub>2</sub>

**M** = 84.93 g/mol  
**1 l** = 1.32 kg  
**CAS NO.** 75-09-2  
**EINECS** 200-838-9  
**NC CODE** 2903 12 00  
**EC NO.** 602 004 00 3  
**UN/ID NO.** 1593  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 40  
**S:** 23-24/25-36/37



Assay (by GC) (exclusive of preservative)	min. 99.8%
Chloride (Cl)	max. 10 ppm
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Titration Acid (meq/g)	max. 0.0003
Water (H <sub>2</sub> O) (by Coulometry)	max. 0.02%
<b>ECD Sensitive Impurities (as Heptachlor Epoxide):</b>	
Single Impurity Peak (pg/ml)	max. 10
<b>FID-Sensitive Impurities (as 2-Octanol):</b>	
Single Impurity Peak (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9264.1000	1 l	6
9264.2500	2.5 l	4

## Dichloromethane

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9315

▶ CH<sub>2</sub>Cl<sub>2</sub>

**M** = 84.93 g/mol  
**1 l** = 1.32 kg  
**CAS NO.** 75-09-2  
**EINECS** 200-838-9  
**NC CODE** 2903 12 00  
**EC NO.** 602 004 00 3  
**UN/ID NO.** 1593  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 40  
**S:** 23-24/25-36/37



Assay (by GC)	min. 99.8%
Chloride (Cl)	max. 10 ppm
Density (g/ml) at 25°C	1.315-1.321
Preservative (Amylene) (ppm)	about 20
Residue after Evaporation (in ppm)	max. 2
Titration Acid (meq/g)	max. 0.0003
Water (H <sub>2</sub> O)	max. 0.02%
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 254 nm	max. 0.01
at 280 nm	max. 0.01
at 350 nm	max. 0.01
UV Cut-off, nm	max. 233

PRODUCT NO.	PACKING	CONT. BOX
9315.1000	1 l	6
9315.2500	2.5 l	4

Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

## Dichloromethane

BakerDRY / Low Water Solvent / ACS

9295

▶ CH<sub>2</sub>Cl<sub>2</sub>

**M** = 84.93 g/mol  
**1 l** = 1.32 kg  
**CAS NO.** 75-09-2  
**EINECS** 200-838-9  
**NC CODE** 2903 12 00  
**EC NO.** 602 004 00 3  
**UN/ID NO.** 1593  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 40  
**S:** 23-24/25-36/37



<b>Meets ACS Specifications</b>	
Assay (CH <sub>2</sub> Cl <sub>2</sub> )(by GC, corrected for water)	min. 99.5%
Appearance	passes test
Color (APHA)	max. 10
Free Halogens	passes test
Preservative (cyclohexane)	information only
Residue after Evaporation	max. 2 ppm
Titration Acid (µeq/g)	max. 0.2
Water (by KF, coulometric)	max. 30 ppm

PRODUCT NO.	PACKING	CONT. BOX
9295.1000	1 l	

Innovation is principal to our business.

## Dichloromethane

9316 'BAKER BIO-ANALYZED'

▶ CH<sub>2</sub>Cl<sub>2</sub>  
**M** = 84.93 g/mol  
**1 l** = 1.32 kg  
**CAS NO.** 75-09-2  
**EINECS** 200-838-9  
**NC CODE** 2903 12 00  
**EC NO.** 602 004 00 3  
**UN/ID NO.** 1593  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 40  
**S:** 23-24/25-36/37



Assay (CH <sub>2</sub> Cl <sub>2</sub> )(by GC)	min. 99.5%
Color (APHA)	max. 10
Preservative (as Amylene)	about 20 ppm
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0001
Water (by KF, coulometric)	max. 30 ppm

PRODUCT NO.	PACKING	CONT. BOX
9316.2500GL	2.5 l Glass	
9316.4000GL	4 l Glass	

## Dichloromethane

7053 'BAKER ANALYZED' / ACS

▶ CH<sub>2</sub>Cl<sub>2</sub>  
**M** = 84.93 g/mol  
**1 l** = 1.32 kg  
**CAS NO.** 75-09-2  
**EINECS** 200-838-9  
**NC CODE** 2903 12 00  
**EC NO.** 602 004 00 3  
**UN/ID NO.** 1593  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 40  
**S:** 23-24/25-36/37



**Exceeds ACS Specifications**

Assay (by GC)	min. 99.5%
Appearance	clear
Color (APHA)	max. 10
Free Halogens	passes test
Preservative (as Amylene)	about 20 ppm
Residue after Evaporation	max. 0.002%
Titration Acid (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.02%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7053.1000	1 l	6
7053.2500	2.5 l	4
7053.5000	5 l EcoTainer	4
7053.9025	25 l	
7053.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
 For safe handling of 25 l tin cans, see Self-closing tap.

## Dichloromethane

7305 'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

▶ CH<sub>2</sub>Cl<sub>2</sub>  
**M** = 84.93 g/mol  
**1 l** = 1.32 kg  
**CAS NO.** 75-09-2  
**EINECS** 200-838-9  
**NC CODE** 2903 12 00  
**EC NO.** 602 004 00 3  
**UN/ID NO.** 1593  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 40  
**S:** 23-24/25-36/37



**Exceeds ACS Specifications**

Assay (by GC)	min. 99.5%
Appearance	clear
Boiling Range (initial to dry point)	max. 2.0°C
Color (APHA)	max. 10
Density (g/ml) at 25°C	1.315-1.321
Free Halogens	passes test
Preservative (as Amylene)	about 20 ppm
Recorded Boiling Point	39.8°C
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.02%

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 235 nm	max. 1.00
at 240 nm	max. 0.35
at 250 nm	max. 0.10
at 260 nm	max. 0.04
at 340-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7305.1000	1 l	6

## Dichloromethane

'BAKER'

7153

▶ CH<sub>2</sub>Cl<sub>2</sub>

M = 84.93 g/mol

1 l = 1.32 kg

CAS NO. 75-09-2

EINECS 200-838-9

NC CODE 2903 12 00

EC NO. 602 004 00 3

UN/ID NO. 1593

ADR/RID 6.1 T1

IMDG 6.1/III

R: 40

S: 23-24/25-36/37



harmful

Assay (by GC)	min. 99%
Boiling Range	38-41°C
Preservative (as Amylene)	about 20 ppm
Residue after Evaporation	max. 0.005%
Water (H <sub>2</sub> O)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
7153.2500	2.5 l	4
7153.5000	5 l EcoTainer	
7153.9025	25 l	
7153.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Dichromium Trioxide

See Chromium(VI) Oxide

## Dicyclopentadiene

'BAKER'

8599

▶ CH<sub>2</sub>:CHCHCH<sub>2</sub>:CHCHCHCH<sub>2</sub>:CH:CH

M = 132.21 g/mol

1 l = 0.98 kg

FLASHPOINT 32 °C

CAS NO. 77-73-6

EINECS 201-052-9

NC CODE 2902 19 80

EC NO. 601 044 00 9

UN/ID NO. 2048

ADR/RID 3 F1

IMDG 3/III

R: 11-20/22-36/37/38-51/53

S: 36/37-61



dangerous for the environment



harmful



highly flammable

Boiling Point 166-173°C

PRODUCT NO.	PACKING	CONT. BOX
8599.0100	100 ml	

Stabilized with tert-Butylpyrocatechol.

## Diethanolamine

'BAKER ANALYZED'

7026

▶ (HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NH

M = 105.14 g/mol

1 l = 1.09 kg

FLASHPOINT 152 °C

CAS NO. 111-42-2

EINECS 203-868-0

NC CODE 2922 12 00

EC NO. 603 071 00 1

R: 22-38-41-48/22

S: 26-36/37/39-46



harmful

Assay	min. 98.5%
Density (g/ml) at 30°C	1.088-1.093
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.005%

## Trace Impurities (in ppm):

Chloride (Cl) max. 5

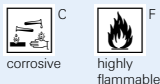
PRODUCT NO.	PACKING	CONT. BOX
7026.2500	2.5 l	4

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Diethylamine

8030 'BAKER ANALYZED'

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NH  
**M** = 73.14 g/mol  
**II** = 0.70 kg  
**FLASHPOINT** -39 °C  
**CAS NO.** 109-89-7  
**EINECS** 203-716-3  
**NC CODE** 2921 12 00  
**EC NO.** 612 003 00 0  
**UN/ID NO.** 1154  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-20/21/22-35  
**S:** 16-26-29-3-36/37/39-45



Assay (by GC)	min. 99.0%
Density (g/ml) at 25°C	0.698-0.702
Insoluble Matter	passes test
Residue after Evaporation	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
8030.1000	1 l	6

## Diethyl Ether

9237 'BAKER HPLC ANALYZED' / for use in Liquid Chromatography and Spectrophotometry

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O  
**M** = 74.12 g/mol  
**II** = 0.71 kg  
**FLASHPOINT** -45 °C  
**CAS NO.** 60-29-7  
**EINECS** 200-467-2  
**NC CODE** 2909 11 00  
**EC NO.** 603 022 00 4  
**UN/ID NO.** 1155  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-19-22-66-67  
**S:** 16-29-33-9



Assay (by GC) (corrected for water) (exclusive of preservative)	min. 99.5%
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 5 ppm
Preservative (C <sub>2</sub> H <sub>5</sub> OH)	1.5-2.5%
Residue after Evaporation	max. 5 ppm
Titration Acid (µeq/g)	max. 0.2

### Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm	max. 0.5
Measured at Emission Maximum for Solvent Impurities	max. 1.0

### Ultraviolet Absorbance (1.00-cm path vs water):

at 231 nm	max. 0.4
at 254 nm	max. 0.07
at 280 nm	max. 0.02
at 350-400 nm	max. 0.01
UV Cut-off, nm	max. 220

PRODUCT NO.	PACKING	CONT. BOX
9237.1000	1 l	6
9237.2500	2.5 l	

Contains Alcohol as a preservative.  
 Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

## Diethyl Ether

8033 'BAKER ANALYZED' / ACS

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O  
**M** = 74.12 g/mol  
**II** = 0.71 kg  
**FLASHPOINT** -45 °C  
**CAS NO.** 60-29-7  
**EINECS** 200-467-2  
**NC CODE** 2909 11 00  
**EC NO.** 603 022 00 4  
**UN/ID NO.** 1155  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-19-22-66-67  
**S:** 16-29-33-9



### Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay (by GC) (exclusive of preservative)	min. 98.0%
Carbonyl Compounds (as HCHO) (by polarography)	max. 0.001%
Color (APHA)	max. 10
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 1 ppm
Preservative (BHT)	min. 7 ppm
Preservative (C <sub>2</sub> H <sub>5</sub> OH)	1.5-3.5%
Preservative (H <sub>2</sub> O)	max. 0.5% (w/w)
Residue after Evaporation	max. 0.001%
Titration Acid (µeq/g)	max. 0.2

### Product Information (not specifications):

Density (g/ml) at 25°C (typical)	0.713
----------------------------------	-------

PRODUCT NO.	PACKING	CONT. BOX
8033.1000	1 l EcoTainer	6
8033.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

Contains Alcohol, Water and BHT as Preservatives.



## Diethyl Ether, Anhydrous

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9259

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT &lt; -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 00

EC NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

R: 12-19-66-67

S: 16-29-33-9



Assay (by GC) (corrected for water)  
(exclusive of preservative) min. 99.0%

### Diethyl Ether Interferences:

Color (APHA)	max. 10
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 5 ppm
Residue after Evaporation	max. 1 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Suitability for U.S. EPA Method 8151A	passes test
Titration Acid (µeq/g)	max. 0.2
Water (by KF, coulometric)	max. 0.08%

PRODUCT NO.	PACKING	CONT. BOX
9259.1000	1 l	6
9259.4000	4 l Glass	

## Diethyl Ether, Anhydrous

BakerDRY / Low Water Solvent / ACS

9250

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O

M = 74.12 g/mol

1 l = 0.71 kg

FLASHPOINT -20 °C

CAS NO. 60-29-7

EINECS 200-467-2

NC CODE 2909 11 00

EC NO. 603 022 00 4

UN/ID NO. 1155

ADR/RID 3 F1

IMDG 3/I

R: 12-19-22-66-67

S: 16-29-33-9



### Meets ACS Specifications

Assay (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O (by GC)	min. 99.0%
Alcohol (C <sub>2</sub> H <sub>5</sub> OH)	max. 0.05%
Carbonyl (HCHO) (by polarography)	max. 0.001%
Color (APHA)	max. 10
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 1 ppm
Residue after Evaporation	max. 5 ppm
Titration Acid (µeq/g)	max. 0.2
Water (by KF, coulometric)	max. 10 ppm

### Product Information (not specifications):

Density (g/ml) at 25°C (typical)	0.7079
----------------------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
9250.1000	1 l	

Contains no preservative.

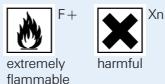
*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

**8254** 'BAKER ANALYZED' / ACS

## Diethyl Ether, Anhydrous

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O  
**M** = 74.12 g/mol  
**1 l** = 0.71 kg  
**FLASHPOINT** -20 °C  
**CAS NO.** 60-29-7  
**EINECS** 200-467-2  
**NC CODE** 2909 11 00  
**EC NO.** 603 022 00 4  
**UN/ID NO.** 1155  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-19-22-66-67  
**S:** 16-29-33-9



**Exceeds ACS Specifications**

Assay (by GC)	min. 99.5%
Alcohol (C <sub>2</sub> H <sub>5</sub> OH)	max. 0.01%
Carbonyl Compounds (as HCHO)	max. 0.001%
Color (APHA)	max. 10
Density (g/ml) at 20°C	0.714-0.716
Foreign Odor	passes test
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 3 ppm
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.01%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8254.1000	1 l	6
8254.10005	1 l EcoTainer	6
8254.5000	5 l EcoTainer	
8254.9025	25 l	

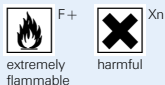
EcoTainer, the metal solvent can for more safety in the lab.  
 For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with 7 ppm BHT.

**8401** 'BAKER ANALYZED'

## Diethyl Ether, Anhydrous

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O  
**M** = 74.12 g/mol  
**1 l** = 0.71 kg  
**FLASHPOINT** -20 °C  
**CAS NO.** 60-29-7  
**EINECS** 200-467-2  
**NC CODE** 2909 11 00  
**EC NO.** 603 022 00 4  
**UN/ID NO.** 1155  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-19-22-66-67  
**S:** 16-29-33-9



Assay (by GC) min. 99.5%  
 Alcohol (C<sub>2</sub>H<sub>5</sub>OH) max. 0.01%  
 Carbonyl Compounds (as HCHO) max. 0.001%  
 Color (APHA) max. 10  
 Density (g/ml) at 20°C 0.714-0.716  
 Foreign Odor passes test  
 Peroxide (as H<sub>2</sub>O<sub>2</sub>) max. 3 ppm  
 Residue after Evaporation max. 0.001%  
 Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test  
 Water (H<sub>2</sub>O) max. 0.01%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8401.1000	1 l	6
8401.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

Stabilized with 7 ppm BHT.

### ▶ 1,4-Diethylene Dioxide

See 1,4-Dioxane

### ▶ Diethylene Glycol

See 2,2'-Oxydiethanol

## Diethylene Glycol Monobutyl Ether

See 2-(2-Butoxyethoxy)ethanol

## Diethyl Malonate

'BAKER'

7028

▶ $\text{CH}_2(\text{COOC}_2\text{H}_5)_2$	Assay (by GC)	min. 98.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
<b>M</b> = 160.17 g/mol	Density (g/ml) at 20°C	1.054-1.055	<b>NO.</b>		<b>BOX</b>
<b>II</b> = 1.07 kg	Identification (by IR)	passes test	7028.1000	1 l	
<b>FLASHPOINT</b> 93 °C					
<b>CAS NO.</b> 105-53-3					
<b>EINECS</b> 203-305-9					
<b>NC CODE</b> 2917 19 10					
<b>ADR/RID</b> 3.32c					
<b>S:</b> 24/25					

## Diglycol

See 2,2'-Oxydiethanol

## 9,10-Dihydro-9-oxoanthracene

See Anthrone

## 3,4-Dihydroxy-2-anthraquinonesulfonic acid, sodium salt

See Alizarin Red S

## 2,2'-Dihydroxydiethylamine

See Diethanolamine

## 2,2'-Dihydroxyethyl Ether

See 2,2'-Oxydiethanol

## 3',6'-Dihydroxyfluoran

See Fluorescein Disodium Salt

## 4,5-Dihydroxy-2,7-naphthalenedisulfonic acid, disodium salt

See Chromotropic Acid, Disodium Salt


## Diiron Trioxide

See Iron(III) Oxide

## Diisopropyl Ether

'BAKER ANALYZED'

8072

▶ $(\text{CH}_3)_2\text{CHOCH}(\text{CH}_3)_2$	Assay (by GC)	min. 98%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
<b>M</b> = 102.18 g/mol	Acidity (as $\text{CH}_3\text{CH}_2\text{COOH}$ )	max. 0.005%	<b>NO.</b>		<b>BOX</b>
<b>II</b> = 0.72 kg	Boiling Range	66-69°C	8072.1000	1 l	6
<b>FLASHPOINT</b> -20 °C	Density (g/ml) at 25°C	0.716-0.720			
<b>CAS NO.</b> 108-20-3	Peroxide (as $\text{C}_6\text{H}_{14}\text{O}_2$ )	max. 0.05%			
<b>EINECS</b> 203-560-6	Residue after Evaporation	max. 0.005%			
<b>NC CODE</b> 2909 19 00	<b>Trace Impurities (in ppm):</b>				
<b>EC NO.</b> 603 045 00 0	Aluminium (Al)	max. 0.5			
<b>UN/ID NO.</b> 1159	Barium (Ba)	max. 0.1			
<b>ADR/RID</b> 3 F1	Boron (B)	max. 0.02			
<b>IMDG</b> 3/II	Cadmium (Cd)	max. 0.05			
<b>R:</b> 11-19-66-67	Calcium (Ca)	max. 0.5			
<b>S:</b> 16-33-9	Chromium (Cr)	max. 0.02			
	Cobalt (Co)	max. 0.02			
highly flammable	Copper (Cu)	max. 0.02			
	Iron (Fe)	max. 0.1			
	Lead (Pb)	max. 0.1			
	Magnesium (Mg)	max. 0.1			
	Manganese (Mn)	max. 0.02			
	Nickel (Ni)	max. 0.02			
	Tin (Sn)	max. 0.1			
	Zinc (Zn)	max. 0.1			

## ▶ Dimethoxystrychnine

See [Brucine](#)

## ▶ N,N-Dimethylacetamide

7030 'BAKER ANALYZED'

▶ $\text{CH}_3\text{CON}(\text{CH}_3)_2$	Boiling Range	165-167°C
<b>M</b> = 87.12 g/mol	Density (g/ml) at 25°C	0.933-0.937
<b>II</b> = 0.93 kg	pH of 20% Solution at 25°C	4.0-7.0
<b>FLASHPOINT</b> 70 °C	Residue after Ignition	max. 0.005%
<b>CAS NO.</b> 127-19-5	Water (H <sub>2</sub> O)	max. 0.05%
<b>EINECS</b> 204-826-4		
<b>NC CODE</b> 2924 10 00		
<b>EC NO.</b> 616 011 00 4		
<b>R:</b> 20/21-61		
<b>S:</b> 45-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
7030.1000	1 l	6

## ▶ p-(Dimethylamino)azobenzene-o-carboxylic Acid

See [Methyl Red](#)

## ▶ p-Dimethylaminobenzaldehyde

1279 'BAKER ANALYZED'

▶ $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{CHO}$	Assay (by Perchloric Acid titrn.)	min. 99%
<b>M</b> = 149.19 g/mol	Heavy Metals (as Pb)	max. 0.001%
<b>CAS NO.</b> 100-10-7	Iron (Fe)	max. 0.001%
<b>EINECS</b> 202-819-0	Residue after Ignition	max. 0.1%
<b>NC CODE</b> 2922 30 00		

PRODUCT NO.	PACKING	CONT. BOX
1279.0100	100 g	

## ▶ o-[(p-(Dimethylamino(phenyl)azo) benzoic Acid

See [Methyl Red](#)

## ▶ Dimethylbenzene

See [Xylene](#)

## ▶ Dimethylformamide

9213 BakerDRY / For Use in Organic Synthesis / ACS

▶ $\text{HCON}(\text{CH}_3)_2$	<b>Meets ACS Specifications</b>	
<b>M</b> = 73.10 g/mol	Assay (HCON(CH <sub>3</sub> ) <sub>2</sub> ) (by GC, corrected for water)	min. 99.8%
<b>II</b> = 0.95 kg	Appearance	passes test
<b>FLASHPOINT</b> 58 °C	Color (APHA)	max. 15
<b>CAS NO.</b> 68-12-2	Residue after Evaporation	max. 0.005%
<b>EINECS</b> 200-679-5	Titration Acid (meq/g)	max. 0.0005
<b>NC CODE</b> 2924 19 00	Titration Base (meq/g)	max. 0.003
<b>EC NO.</b> 616 001 00 0	Water (by KF, coulometric)	max. 20 ppm
<b>UN/ID NO.</b> 2265	<b>Product Information (not specifications):</b>	
<b>ADR/RID</b> 3 F1	Boiling Point (typical)	153.0°C
<b>IMDG</b> 3/III	Density (g/ml) at 25°C (typical)	0.944
<b>R:</b> 20/21-36-61		
<b>S:</b> 45-53		



toxic

PRODUCT NO.	PACKING	CONT. BOX
9213.1000	1 l	

Dimethylformamide can have a teratogenic effect. Women in childbearing age are warned.

*Innovation is principal to our business.*

## Dimethylformamide

'BAKER BIO-ANALYZED' / For Biotech Applications

9344

▶  $\text{HCON}(\text{CH}_3)_2$

**M** = 73.10 g/mol  
**1 l** = 0.95 kg

**FLASHPOINT** 58 °C

**CAS NO.** 68-12-2  
**EINECS** 200-679-5  
**NC CODE** 2924 19 00  
**EC NO.** 616 001 00 0  
**UN/ID NO.** 2265  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 20/21-36-61  
**S:** 45-53



toxic

Assay (by GC) (corrected for water)	min. 99.8%
Amines (as dimethylamines)	max. 5 ppm
Appearance	passes test
Color (APHA)	max. 15
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.003
Water ( $\text{H}_2\text{O}$ )	max. 400 ppm

### Ultraviolet Absorbance (1.00-cm path vs water):

at 270 nm	max. 1.00
at 275 nm	max. 0.30
at 295 nm	max. 0.10
at 310 nm	max. 0.05
at 340 nm	max. 0.01
at 400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9344.4000	4 l Glass	

Dimethylformamide can have a teratogenic effect. Women in childbearing age are warned.

## Dimethylformamide

'BAKER ANALYZED' / ACS

7032

▶  $\text{HCON}(\text{CH}_3)_2$

**M** = 73.10 g/mol  
**1 l** = 0.95 kg

**FLASHPOINT** 58 °C

**CAS NO.** 68-12-2  
**EINECS** 200-679-5  
**NC CODE** 2924 19 00  
**EC NO.** 616 001 00 0  
**UN/ID NO.** 2265  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 20/21-36-61  
**S:** 45-53



toxic

### Exceeds ACS Specifications

Assay (by GC)	min. 99.8%
Appearance	clear
Color (APHA)	max. 15
Residue after Evaporation	max. 0.0005%
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.003
Water ( $\text{H}_2\text{O}$ )	max. 0.1%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7032.1000	1 l	6
7032.2500	2.5 l	4
7032.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Dimethylformamide can have a teratogenic effect. Women in childbearing age are warned.

## Dimethylformamide

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

7400

▶  $\text{HCON}(\text{CH}_3)_2$

**M** = 73.10 g/mol  
**1 l** = 0.95 kg

**FLASHPOINT** 58 °C

**CAS NO.** 68-12-2  
**EINECS** 200-679-5  
**NC CODE** 2924 19 00  
**EC NO.** 616 001 00 0  
**UN/ID NO.** 2265  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 20/21-36-61  
**S:** 45-53



toxic

### Exceeds ACS Specifications

Assay (by GC)	min. 99.8%
Appearance	clear
Color (APHA)	max. 15
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.003
Water ( $\text{H}_2\text{O}$ )	max. 0.05%

### Trace Impurities (in ppm):

Iron (Fe)	max. 0.05
-----------	-----------

### Ultraviolet Absorbance (1.00-cm path vs water):

at 270 nm	max. 1.00
at 275 nm	max. 0.30
at 295 nm	max. 0.10
at 310 nm	max. 0.05
at 340-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7400.0500	500 ml	6
7400.2500	2.5 l	

Dimethylformamide can have a teratogenic effect. Women in childbearing age are warned.

# Dimet

## 2,9-Dimethyl-1,10 phenanthroline Hydrochloride

2690 'BAKER ANALYZED'


▶ (CH <sub>3</sub> ) <sub>2</sub> C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> ·HCl·H <sub>2</sub> O M = 262.75 g/mol CAS NO. 7296-20-1 EINECS 230-732-8 NC CODE 2933 99 90	Sensitivity to Copper	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			2690.0001	1 g	

## 2',2-Dimethyl-5',5-di-iso-propylphenolphthalein

See Thymolphthalein


## Dimethyl Sulfoxide

9234 'BAKER BIO-ANALYZED'

▶ (CH <sub>3</sub> ) <sub>2</sub> SO M = 78.13 g/mol 1 l = 1.10 kg FLASHPOINT 95 °C CAS NO. 67-68-5 EINECS 200-664-3 NC CODE 2930 90 70 R: 36/38 S: 26  Xi irritant	Assay ((CH <sub>3</sub> ) <sub>2</sub> SO)(by GC, corrected for water)	min. 99.9%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Appearance	passes test	9234.4000GL	4 l Glass	
	Residue after Evaporation	max. 5 ppm			
	Titration Acid (meq/g)	max. 0.001			
	Water (by KF, coulometric)	max. 250 ppm			
	<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>				
	at 270 nm	max. 0.40			
	at 290 nm	max. 0.18			
	at 310 nm	max. 0.06			
	at 330 nm	max. 0.02			
	at 350-400 nm	max. 0.01			

## Dimethyl Sulfoxide

7093 'BAKER ANALYZED' / Ultraviolet Spectrophotometry

▶ (CH <sub>3</sub> ) <sub>2</sub> SO M = 78.13 g/mol 1 l = 1.10 kg FLASHPOINT 95 °C CAS NO. 67-68-5 EINECS 200-664-3 NC CODE 2930 90 70 R: 36/38 S: 26  Xi irritant	Assay	min. 99.5%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Color (APHA)	max. 10	7093.1000	1 l	6
	Residue after Evaporation	max. 0.005%			
	Water (H <sub>2</sub> O)	max. 0.05%			
	<b>Ultraviolet Absorbance (1.00-cm path vs water; curve smooth throughout stated range with no extraneous impurity peaks):</b>				
	at 270 nm	max. 1.0			
	at 275 nm	max. 0.40			
	at 280 nm	max. 0.30			
	at 300 nm	max. 0.10			
	at 335 nm	max. 0.03			
	at 400 nm	max. 0.01			

## Dimethyl Sulfoxide

7033 'BAKER ANALYZED'

▶ (CH <sub>3</sub> ) <sub>2</sub> SO M = 78.13 g/mol 1 l = 1.10 kg FLASHPOINT 95 °C CAS NO. 67-68-5 EINECS 200-664-3 NC CODE 2930 90 70 R: 36/38 S: 26  Xi irritant	Assay	min. 99.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Color (APHA)	max. 10	7033.1000	1 l	6
	Density (g/ml) at 25°C	min. 1.095	7033.5000C	5 l Jerrycan	
	Freezing Point	18.0-19.0°C	7033.9200	200 l	
	Residue after Evaporation	max. 0.01%			
	Water (H <sub>2</sub> O)	max. 0.2%			

## Dimethyl Sulfoxide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## 2,4-Dinitrophenylhydrazine

50% H<sub>2</sub>O / 'BAKER'

1293

▶ (NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHNH<sub>2</sub>

M = 198.14 g/mol

CAS NO. 119-26-6

EINECS 204-309-3

NC CODE 2928 00 90

UN/ID NO. 1325

ADR/RID 4.1 D

IMDG 4.1/II

R: 1-22-36/38

S: 35



explosive



harmful

Melting Point 198-200°C

Residue after Ignition max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1293.0100	100 g	

## 1,4-Dioxane

PHOTREX Reagent / For Spectrophotometry and Liquid Scintillation Counting / ACS

8434

▶ OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>

M = 88.11 g/mol

1 l = 1.03 kg

FLASHPOINT 11 °C

CAS NO. 123-91-1

EINECS 204-661-8

NC CODE 2932 99 85

EC NO. 603 024 00 5

UN/ID NO. 1165

ADR/RID 3 F1

IMDG 3/II

R: 11-19-36/37-40-66

S: 16-36/37-46



harmful



highly flammable

### Meets ACS Specifications

Assay (by GC) (corrected for water) min. 99.0%

at 420 nm max. 0.005

Carbonyl Compounds (as HCHO) (by polarography) max. 0.01%

Color (APHA) max. 10

Counting Efficiency for <sup>3</sup>H in Prepared 'Cocktail' act value reported

Freezing Point min. 11.0°C

Peroxide (as H<sub>2</sub>O<sub>2</sub>) max. 0.005%

Residue after Evaporation max. 0.001%

Titration Acid (meq/g) max. 0.0016

Water (by KF, coulometric) max. 0.02%

### Ultraviolet Absorbance (1.00-cm path vs water):

at 215 nm max. 1.00

at 225 nm max. 0.60

at 250 nm max. 0.25

at 270 nm max. 0.10

at 280 nm max. 0.05

at 295-400 nm max. 0.01

### Windows of Infrared Transmittance (0.1 mm path, 60-100% T), μm:

2.0-3.3 info only (not spec)

3.8-5.0 info only (not spec)

5.1-6.7 info only (not spec)

9.9-10.7 info only (not spec)

12.1-15.4 info only (not spec)

PRODUCT NO.	PACKING	CONT. BOX
8434.1000	1 l	

Use J.T.Baker Ultrex II  
and BAKER INSTRA-ANALYZED acids  
for low level trace element analysis.

See chapter 3 of this catalogue for more details.

## 8031 1,4-Dioxane 'BAKER ANALYZED'

▶  $\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2$   
**M** = 88.11 g/mol  
**1 I** = 1.03 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 123-91-1  
**EINECS** 204-661-8  
**NC CODE** 2932 99 85  
**EC NO.** 603 024 00 5  
**UN/ID NO.** 1165  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-19-36/37-40-66  
**S:** 16-36/37-46



harmful



highly flammable

Assay (by GC) min. 99.0%  
 Carbonyl (as HCHO) max. 0.05%  
 Color (APHA) max. 10  
 Freezing Point min. 11.0°C  
 Peroxide (as  $\text{H}_2\text{O}_2$ ) max. 0.01%  
 Residue after Evaporation max. 0.005%  
 Titrable Base (meq/g) max. 0.0002  
 Water ( $\text{H}_2\text{O}$ ) max. 0.1%

### Trace Impurities (in ppm):

Aluminium (Al) max. 0.5  
 Barium (Ba) max. 0.1  
 Boron (B) max. 0.02  
 Cadmium (Cd) max. 0.05  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.02  
 Cobalt (Co) max. 0.02  
 Copper (Cu) max. 0.02  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.1  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.02  
 Nickel (Ni) max. 0.02  
 Tin (Sn) max. 0.1  
 Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8031.1000	1 l	6
8031.10005	1 l EcoTainer	
8031.2500	2.5 l	4
8031.5000	5 l EcoTainer	
8031.9200	200 l	

Stabilized.

## 1071 Diphenylamine 'BAKER ANALYZED' / ACS

▶  $(\text{C}_6\text{H}_5)_2\text{NH}$   
**M** = 169.23 g/mol  
**CAS NO.** 122-39-4  
**EINECS** 204-539-4  
**NC CODE** 2921 44 00  
**EC NO.** 612 026 00 5  
**UN/ID NO.** 2811  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/II  
**R:** 23/24/25-33-50/53  
**S:** 28-36/37-45-60-61



dangerous for the environment



toxic

### Meets ACS Specifications

Melting Point 52.5-54.0°C  
 Nitrate ( $\text{NO}_3$ ) passes test  
 Residue after Ignition max. 0.03%  
 Sensitivity to Nitrate passes test  
 Solubility in Alcohol passes test

PRODUCT NO.	PACKING	CONT. BOX
1071.0100	100 g	

## 1295 Diphenylcarbazine 'BAKER ANALYZED' / ACS

▶  $\text{C}_6\text{H}_5\text{NHNHCONHNHC}_6\text{H}_5$   
**M** = 242.28 g/mol  
**CAS NO.** 140-22-7  
**EINECS** 205-403-7  
**NC CODE** 2928 00 90

### Meets ACS Specifications

Melting Point 173-176°C  
 Residue after Ignition max. 0.05%  
 Sensitivity for Chromate passes test  
 Solubility in Aqueous Acetone passes test

PRODUCT NO.	PACKING	CONT. BOX
1295.0025	25 g Glass	

## 1296 Diphenylcarbazono 'BAKER ANALYZED'

▶  $\text{C}_6\text{H}_5\text{NHNHCON:NC}_6\text{H}_5$   
**M** = 240.27 g/mol  
**CAS NO.** 538-62-5  
**EINECS** 208-698-0  
**NC CODE** 2928 00 90

Residue after Ignition max. 0.05%  
 Sensitivity for Mercury Detection passes test  
 Solubility passes test

PRODUCT NO.	PACKING	CONT. BOX
1296.0005	5 g	

## ▶ 1,5-Diphenylcarbohydrazide See Diphenylcarbazine



## 4,7-Diphenyl-1,10-phenanthroline

'BAKER ANALYZED'

1691

▶ $(C_6H_5)_2C_{12}H_6N_2$	Sensitivity to Iron	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 332.41 g/mol			1691.0002	2 g	
<b>CAS NO.</b> 1662-01-7					
<b>EINECS</b> 216-767-1					
<b>NC CODE</b> 2933 90 95					

## Dipotassium Hydrogen Phosphate

See Potassium Hydrogen Phosphate Anhydrous

## Disodium (Ethylenedinitrilo)tetracetate

See EDTA, Disodium Salt

## Disodium Tetraborate Anhydrous

'BAKER ANALYZED' / for X-ray Fluorescence Analysis

0367

▶ $Na_2B_4O_7$	Assay (acidimetric)	min. 99.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 201.22 g/mol	Barium (Ba)	max. 0.002%	0367.5000	5 kg	
<b>CAS NO.</b> 1330-43-4	Calcium (Ca)	max. 0.005%			
<b>EINECS</b> 215-540-4	Chloride (Cl)	max. 0.005%			
<b>NC CODE</b> 2840 11 00	Chromium (Cr)	max. 0.0002%			
<b>R</b> : 36/37/38-62-63	Cobalt (Co)	max. 0.0002%			
<b>S</b> : 22-26-36/37/39-45	Copper (Cu)	max. 0.0002%			
Xn harmful	Iron (Fe)	max. 0.001%			
	Lead (Pb)	max. 0.0002%			
	Lithium (Li)	max. 0.005%			
	Loss on ignition (800°C)	max. 1.0%			
	Magnesium (Mg)	max. 0.001%			
	Manganese (Mn)	max. 0.0005%			
	Nickel (Ni)	max. 0.0002%			
	Phosphate (as $PO_4$ )	max. 0.002%			
	Potassium (K)	max. 0.005%			
	Silicate (as $SiO_2$ )	max. 0.05%			
	Strontium (Sr)	max. 0.001%			
	Sulfate ( $SO_4$ )	max. 0.005%			

## Disodium Tetraborate Decahydrate

crystal / 'BAKER ANALYZED' / ACS

0268

▶ $Na_2B_4O_7 \cdot 10H_2O$	<b>Meets ACS Specifications</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 381.37 g/mol	Assay	99.5-105.0%	0268.1000	1 kg	6
<b>CAS NO.</b> 1303-96-4	Calcium (Ca)	max. 0.005%	0268.9010	10 kg	
<b>EINECS</b> 215-540-4	Chloride (Cl)	max. 0.001%			
<b>NC CODE</b> 2840 19 90	Heavy Metals (as Pb)	max. 0.001%			
<b>R</b> : 36/37/38-62-63	Insoluble Matter	max. 0.005%			
<b>S</b> : 22-26-36/37/39-45	pH of 0.01 M Solution at 25°C	9.15-9.20			
Xn harmful	Phosphate ( $PO_4$ )	max. 0.001%			
	Sulfate ( $SO_4$ )	max. 0.005%			
	<b>Trace Impurities (in ppm):</b>				
	Iron (Fe)	max. 5			

## Disodium Tetraborate Decahydrate

'BAKER'

0270

▶ $Na_2B_4O_7 \cdot 10H_2O$	Assay	99.0-103.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 381.37 g/mol	Ammonium ( $NH_4$ )	max. 10 ppm	0270.1000	1 kg	
<b>CAS NO.</b> 1303-96-4	Appearance of solution	passes test			
<b>EINECS</b> 215-540-4	Arsenic (As)	max. 5 ppm			
<b>NC CODE</b> 2840 19 90	Calcium (Ca)	max. 100 ppm			
<b>R</b> : 22	Heavy Metals (as Pb)	max. 25 ppm			
Xn harmful	Identification	passes test			
	pH	9.0 - 9.6			
	Sulfates (as $SO_4$ )	max. 50 ppm			

## Dithiothreitol

See Cleland's Reagent

## ▶ 1,4-Dithiothreitol (DTT, Cleland's Reagent)

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ▶ DMSO

See Dimethyl Sulfoxide

## ▶ DNA/RNA Synthesis reagents

See for detailed information section Reagents for DNA/RNA Synthesis, page 261

### 8172 n-Dodecane

'BAKER'

▶ $\text{CH}_3(\text{CH}_2)_{10}\text{CH}_3$ <b>M</b> = 170.34 g/mol <b>II</b> = 0.75 kg <b>FLASHPOINT</b> 74 °C <b>CAS NO.</b> 112-40-3 <b>EINECS</b> 203-967-9 <b>NC CODE</b> 2901 10 00	Assay (by GC)	min. 99%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Boiling Point	215-216°C	<b>NO.</b>		<b>BOX</b>
	Density (g/ml) at 20°C	0.748-0.749	8172.0500	500 ml	
	Freezing Point	-9 to -10°C			

### L034-07 1-Dodecanol

'BAKER'

▶ $\text{CH}_3(\text{CH}_2)_{11}\text{OH}$ <b>M</b> = 186.34 g/mol <b>II</b> = 0.83 kg <b>FLASHPOINT</b> 107 °C <b>CAS NO.</b> 112-53-8 <b>EINECS</b> 203-982-0 <b>NC CODE</b> 2905 17 00	Assay (by GC)	min. 98%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Appearance	passes test	<b>NO.</b>		<b>BOX</b>
	Water (H <sub>2</sub> O)	max. 0.1%	L034-07	500 ml Glass	

## ▶ Dodecyl Alcohol

See 1-Dodecanol

### 4533

## ▶ Drum opener for 10, 25 and 200 litre solvents cans

<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
<b>NO.</b>		<b>BOX</b>
4533	1 unit	

## ▶ Edetate Disodium

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ▶ Edge bead removers

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### 1109 EDTA

Powder / 'BAKER ANALYZED'

▶ $(\text{HOCOCH}_2)_2\text{NCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{COOH})_2$ <b>M</b> = 292.25 g/mol <b>CAS NO.</b> 60-00-4 <b>EINECS</b> 200-448-9 <b>NC CODE</b> 2922 49 95 <b>R:</b> 36-52/53 <b>S:</b> 61	Assay	99.4-100.6%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Heavy Metals (as Pb)	max. 0.001%	<b>NO.</b>		<b>BOX</b>
	Insoluble in Dilute NH <sub>4</sub> OH	max. 0.005%	1109.0100	100 g	
	Iron (Fe)	max. 0.005%	1109.1000	1 kg	6
	Residue after Ignition	max. 0.2%			



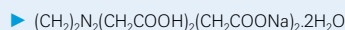
### EDTA

See Ethylenediamine Tetraacetic Acid

## EDTA, Disodium Salt

crystal / 'BAKER ULTRAPURE BIOREAGENT'

4040



**M** = 372.24 g/mol  
**CAS NO.** 6381-92-6  
**EINECS** 205-358-3  
**NC CODE** 2922 49 95  
**R:** 20/21/22  
**S:** 36/37-9



harmful

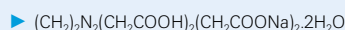
Assay	99.5-100.5%
Calcium (Ca)	max. 0.005%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.005%
Nitritotriacetic Acid	max. 0.1%
pH of 5% Solution at 25°C	4.0-6.0
Protease Activity	none detected
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4040.0100	100 g	
4040.0500	500 g	
4040.1000	1 kg	
4040.5000	5 kg	

## EDTA, Disodium Salt

'BAKER ANALYZED'

1073



**M** = 372.24 g/mol  
**CAS NO.** 6381-92-6  
**EINECS** 205-358-3  
**NC CODE** 2922 49 95  
**R:** 20/21/22  
**S:** 36/37-9



harmful

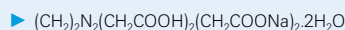
Assay	99.0-101.0%
Heavy Metals (as Pb)	max.0.001%
Insoluble Matter	max.0.005%
pH of 5% Solution at 25°C	4.0-6.0
Sulfate (SO <sub>4</sub> )	max. 0.01%
<b>Trace Impurities (in ppm):</b>	
Copper (Cu)	max. 3
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1073.0250	250 g	6
1073.0500	500 g	6
1073.1000	1 kg	6

## EDTA, Disodium Salt

'BAKER'

2060



**M** = 372.24 g/mol  
**CAS NO.** 6381-92-6  
**EINECS** 205-358-3  
**NC CODE** 2922 49 95  
**R:** 20/21/22  
**S:** 36/37-9



harmful

Assay	min. 98%
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PRODUCT NO.	PACKING	CONT. BOX
2060.1000	1 kg	6
2060.5000	5 kg	

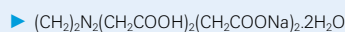
## EDTA, Disodium Salt

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## EDTA, Disodium Salt

(1ml = 1mg CaCO<sub>3</sub>) / standard solution / 'BAKER ANALYZED'

7092



**M** = 372.24 g/mol  
**EINECS** 231-791-2  
**NC CODE** 2922 49 95

Heavy Metals (as Pb)	max. 5 ppm
Iron (Fe)	max. 5 ppm
Titer	0.98-1.02mg CaCO <sub>3</sub> /ml

PRODUCT NO.	PACKING	CONT. BOX
7092.1000	1 l	
7092.9020	20 l Polycube	

*Volumetric Solution, ready for use.*

The titer found falls within the range 0.98-1.02 mg CaCO<sub>3</sub>/ml.

## EDTA, Disodium Salt

0.1 mol/l / 'BAKER ANALYZED'

7124

**EINECS** 205-358-3  
**NC CODE** 2922 49 95

Titer (mol/l)	0.0997-0.1003
---------------	---------------

PRODUCT NO.	PACKING	CONT. BOX
7124.1000	1 l	
7124.5000	5 l HDPE	
7124.9020	20 l Polycube	

*Volumetric Solution, ready for use.*

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

# EDTA

## EDTA, Disodium Salt

**7126** Solution A, 0.1 mol/l / 'BAKER ANALYZED' / 0.1M solution with Mg- and Zn-complex for the determination of waterhardness. 1 ml represents 5.6°dH/100 ml water.

NC CODE	2922 49 95	PRODUCT NO.	PACKING	CONT. BOX
		7126.1000	1 l	

Volumetric Solution, ready for use.

## EDTA, Disodium Salt

**7481** 0.05 mol/l / 'BAKER ANALYZED'

EINECS	231-791-2	Titer (mol/l)	0.0495-0.0505	PRODUCT NO.	PACKING	CONT. BOX
NC CODE	2922 49 95			7481.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## EDTA, Disodium Salt

**7125** 0.02 mol/l / 'BAKER ANALYZED'

CAS NO.	139-33-3	Titer (mol/l)	0.0195-0.0205	PRODUCT NO.	PACKING	CONT. BOX
EINECS	205-358-3			7125.1000	1 l	
NC CODE	2922 49 95					

Volumetric Solution, ready for use.

## EDTA, Disodium Salt

**7127** Solution B, 0.01783 mol/l / 'BAKER ANALYZED' / 0.01783M solution with Mg- and Zn-complex for the determination of waterhardness. 1 ml represents 1°dH/100 ml water.

NC CODE	2922 49 95	PRODUCT NO.	PACKING	CONT. BOX
		7127.1000	1 l	
		7127.5000	5 l HDPE	
		7127.9010	10 l Polycube	
		7127.9020	20 l Polycube	

Volumetric Solution, ready for use.

## EDTA, Disodium Salt

**7613** 0.01 mol/l / 'BAKER ANALYZED'

CAS NO.	139-33-3	Molarity (M)	0.0099-0.0101	PRODUCT NO.	PACKING	CONT. BOX
EINECS	205-358-3			7613.1000	1 l	6
NC CODE	2922 49 95					

Volumetric Solution, ready for use.

## EDTA, Disodium Salt

**4871** Solution A, 0.1 mol/l / DILUT-IT

NC CODE	2922 49 95	PRODUCT NO.	PACKING	CONT. BOX
		4871	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## EDTA, Disodium Salt

**4653** 0.1 mol/l; 1/10 M = 33.62g, 0.1M / DILUT-IT



M = 336.21 g/mol

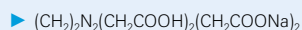
CAS NO.	139-33-3	PRODUCT NO.	PACKING	CONT. BOX
EINECS	205-358-3	4653	500 ml Sealed Bottle	6
NC CODE	2922 49 95			

Volumetric Concentrate, for dilution to 1 l.

**EDTA, Disodium Salt**

0.02 mol/l; 1/50 M = 6.724g; 0.02M / DILUT-IT

4652



M = 336.21 g/mol

CAS NO. 139-33-3

EINECS 205-358-3

NC CODE 2922 49 95

PRODUCT NO.	PACKING	CONT. BOX
4652	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

**EDTA, Disodium Salt**

0.01 mol/l / DILUT-IT

4870

EINECS 205-358-3

NC CODE 2922 49 95

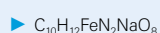
PRODUCT NO.	PACKING	CONT. BOX
4870	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

**EDTA, Iron(III) Sodium Salt**

13% Iron / 'BAKER'

1883



M = 367.05 g/mol

CAS NO. 15708-41-5

EINECS 239-802-2

NC CODE 2922 49 90

Appearance	passes test
Iron (Fe)	12.5-13.5%
Total EDTA	min. 67.5%

PRODUCT NO.	PACKING	CONT. BOX
1883.0500	500 g	

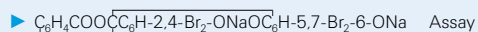
**Ehrlich's Reagent**

See p-Dimethylaminobenzaldehyde

**Eosin Y (Yellowish)**

'BAKER'

1303



M = 691.88 g/mol

CAS NO. 15086-94-9

EINECS 239-138-3

NC CODE 3204 12 00

min. 88%

PRODUCT NO.	PACKING	CONT. BOX
1303.0025	25 g Glass	

C.I. 45380.

**Eosine-Y (aqueous)**

Histology

3874

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
3874.1000	1 l Glass	
3874.2500	2.5 l Glass	

**Eosine-Y-solution**

Histology

3871

1 l = 0.91 kg

FLASHPOINT 29 °C

NC CODE 3822 00 00

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3.2/III

R: 10

S: 16-7/9

*Eosine Y Staining Solution for use in combination with Hematoxylin*

PRODUCT NO.	PACKING	CONT. BOX
3871.1000	1 l Glass	
3871.2500	2.5 l Glass	

**Eosin-Methyleneblue dye according Leishman**

See Leishman Stain

**Eosin-Methyleneblue solution according Leishman**

See Leishman

**Eosin-Methyleneblue solution according Wright**

See Wright

# Eosin

## Eosine Solution for HE staining



See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

## 1,2-Epoxypropane

See Propylene Oxide

## Eriochrome Black T

1107 'BAKER ANALYZED'

▶ $\text{HOC}_{10}\text{H}_6\text{N}_2\text{NC}_{10}\text{H}_4(\text{OH})(\text{NO}_2)\text{SO}_3\text{Na}$	Sensitivity as Indicator	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 461.40 g/mol			1107.0025	25 g Glass	
<b>CAS NO.</b> 1787-61-7					
<b>EINECS</b> 217-250-3					
<b>NC CODE</b> 3204 19 00					
<b>UN/ID NO.</b> 3077					
<b>ADR/RID</b> 9 M7					
<b>IMDG</b> 9/III					
<b>R:</b> 36-51/53					
<b>S:</b> 26-61					
 N	 Xi				
dangerous for the environment	irritant				

## Etching Chemicals

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Ethanal

See Acetaldehyde

## 1,2-Ethanedio


See Ethylene Glycol

## N,N'-1,2-Ethanediybis[N-(carboxymethyl)glycine], Disodium salt

See EDTA, Disodium Salt

## Ethanol

8462 Absolute / 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

▶ $\text{C}_2\text{H}_5\text{OH}$	Assay (by GC)	min. 99.5%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 46.07 g/mol	Density (g/ml) at 20°C	0.789 - 0.790	8462.1000	1 l	6
<b>II</b> = 0.79 kg	Free Acid (as $\text{CH}_3\text{COOH}$ )	max. 0.001%	8462.2500	2.5 l	4
<b>FLASHPOINT</b> 12 °C	Residue after Evaporation	max. 0.001%	Excluding excise.		
<b>CAS NO.</b> 64-17-5	Water ( $\text{H}_2\text{O}$ )	max. 0.2%			
<b>EINECS</b> 200-578-6	<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>				
<b>NC CODE</b> 2207 10 00	at 210 nm	max. 0.7			
<b>EC NO.</b> 603 002 00 5	at 240 nm	max. 0.1			
<b>UN/ID NO.</b> 1170	at 260 nm	max. 0.01			
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/II					
<b>R:</b> 11					
<b>S:</b> 16-7					
 F					
highly flammable					

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Ethanol

Absolute / 'BAKER ANALYZED' / ACS

8006

▶ C<sub>2</sub>H<sub>5</sub>OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 00

EC NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

R: 11

S: 16-7



highly flammable

**Exceeds ACS Specifications**

Assay	min.99.9%(by volume)
Acetone, isopropylalcohol	passes test
Color (APHA)	max. 10
Methanol (CH <sub>3</sub> OH)	max. 0.1%
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titrate Acid (meq/g)	max. 0.0005
Titrate Base (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.2%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.2
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8006.0250GL	250 ml Glass	
8006.1000	1 l	6
8006.1000S	1 l EcoTainer	
8006.1000PE	1 l HDPE	6
8006.2500	2.5 l	4
8006.2500PE	2.5 l HDPE	4
8006.5000	5 l EcoTainer	4
8006.5000PE	5 l HDPE	
8006.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.  
Excluding excise.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Ethanol

Absolute / 'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

8098

▶ C<sub>2</sub>H<sub>5</sub>OH

M = 46.07 g/mol

1 l = 0.79 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 00

EC NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

R: 11

S: 16-7



highly flammable

**Meets ACS Specifications**

Assay	min. 99.5%
Residue after Evaporation	max. 0.001%
Water (H <sub>2</sub> O)	max. 0.2%

**Ultraviolet Absorbance (1.00-cm path vs water; curve smooth throughout stated range with no extraneous impurity peaks):**

at 210 nm	max. 1.00
at 220 nm	max. 0.50
at 230 nm	max. 0.20
at 250 nm	max. 0.05
at 270-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8098.0500	500 ml	6
8098.2500	2.5 l	

Excluding excise.

*J.T.Baker HYDRA-POINT Karl Fischer Reagents are fast and accurate.*

*Refer to the Hydra-Point section of this catalogue.*

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
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P  
Q  
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S  
T  
U  
V  
W  
X  
Y  
Z

## 8228 Ethanol Absolute / 'BAKER'

▶ C <sub>2</sub> H <sub>5</sub> OH	Assay	min. 99.5%
<b>M</b> = 46.07 g/mol	Color (APHA)	max. 10
<b>1 l</b> = 0.79 kg		
<b>FLASHPOINT</b> 12 °C		
<b>CAS NO.</b> 64-17-5		
<b>EINECS</b> 200-578-6		
<b>NC CODE</b> 2207 10 00		
<b>EC NO.</b> 603 002 00 5		
<b>UN/ID NO.</b> 1170		
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/II		
<b>R:</b> 11		
<b>S:</b> 16-7		



PRODUCT NO.	PACKING	CONT. BOX
8228.1000	1 l	6
8228.2500	2.5 l	4
8228.9025	25 l	
8228.9200	200 l	

Excluding excise.  
For safe handling of 25 l tin cans, see Self-closing tap.

## 3406 Ethanol 99.8% / HISTO GRADE

▶ C <sub>2</sub> H <sub>5</sub> OH	Assay	min. 99.8%
<b>M</b> = 46.07 g/mol	Calcium (Ca)	max. 5 ppm
<b>1 l</b> = 0.79 kg	Iron (Fe)	max. 1 ppm
<b>FLASHPOINT</b> 12 °C	Residue after Evaporation	max. 0.0015%
<b>CAS NO.</b> 64-17-5	Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
<b>EINECS</b> 200-578-6	Titration Acid (meq/g)	max. 0.001
<b>NC CODE</b> 2207 10 00	Water (H <sub>2</sub> O)	max. 0.2%
<b>EC NO.</b> 603 002 00 5		
<b>UN/ID NO.</b> 1170		
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/II		
<b>R:</b> 11		
<b>S:</b> 16-7		



PRODUCT NO.	PACKING	CONT. BOX
3406.2500PE	2.5 l HDPE	
3406.5000	5 l Jerrycan	
3406.9010	10 l Jerrycan	
3406.9025	25 l Jerrycan	

Excluding excise.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Ethanol, absolute MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*



## Ethanol

95% / 'BAKER ANALYZED' / ACS

8007

▶ C<sub>2</sub>H<sub>5</sub>OH

M = 46.07 g/mol

1 l = 0.81 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 00

EC NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

R: 11

S: 16-7



highly flammable

**Exceeds ACS Specifications**

Assay	min. 95.0% by volume
Acetone, isopropylalcohol	passes test
Color (APHA)	max. 10
Methanol (CH <sub>3</sub> OH)	max. 0.1%
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0005
Titration Base (meq/g)	max. 0.0002

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8007.1000	1 l	6
8007.10005	1 l EcoTainer	
8007.2500	2.5 l	4
8007.2500PE	2.5 l HDPE	4
8007.5000	5 l EcoTainer	4
8007.9025	25 l	
8007.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab. Excluding excise.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Ethanol

96% / 'BAKER'

8229

▶ C<sub>2</sub>H<sub>5</sub>OH

M = 46.07 g/mol

1 l = 0.81 kg

FLASHPOINT 12 °C

CAS NO. 64-17-5

EINECS 200-578-6

NC CODE 2207 10 00

EC NO. 603 002 00 5

UN/ID NO. 1170

ADR/RID 3 F1

IMDG 3/II

R: 11

S: 16-7



highly flammable

Assay (96.0-97.2%)	passes test
Appearance	passes test
Boiling Point	78.0-79.0°C
Density (g/ml) at 20°C	0.804-0.809
Furfural	passes test
Fuseloid, aldehyde	passes test
Heavy Metals, Zinc (as Pb)	max. 2 ppm
Identification (by IR)	passes test
Iron (Fe)	max. 1 ppm
Methanol (CH <sub>3</sub> OH)	max. 500 ppm
Residue after Evaporation	max. 0.0015%
Substances Reducing KMnO <sub>4</sub>	passes test
Titration acid	passes test
Titration base	passes test

**UV-absorbance (1cm vs hexane):**

220-270 nm (no maxima)	passes test
at 220 nm	max. 0.30
at 230 nm	max. 0.18
at 240 nm	max. 0.08
at 270 nm	max. 0.02

PRODUCT NO.	PACKING	CONT. BOX
8229.1000	1 l	6
8229.2500	2.5 l	4
8229.5000	5 l EcoTainer	
8229.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab. Excluding excise.  
For safe handling of 25 l tin cans, see Self-closing tap.

Mallinckrodt Baker's chemistry  
is Part of a pure process™.

## Ethanol

3405 96% / HISTO GRADE

▶ C<sub>2</sub>H<sub>5</sub>OH

**M** = 46.07 g/mol

**1 l** = 0.81 kg

**FLASHPOINT** 12 °C

**CAS NO.** 64-17-5

**EINECS** 200-578-6

**NC CODE** 2207 10 00

**EC NO.** 603 002 00 5

**UN/ID NO.** 1170

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11

**S:** 16-7



highly flammable

Assay	min. 96%
Calcium (Ca)	max. 5 ppm
Iron (Fe)	max. 1 ppm
Residue after Evaporation	max. 0.0015%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.001

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

3405.2500PE 2.5 l HDPE

3405.5000 5 l Jerrycan

3405.9010 10 l Jerrycan

3405.9025 25 l Jerrycan

Excluding excise.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Ethanol 99%, denatured

3408 HISTO GRADE

▶ C<sub>2</sub>H<sub>5</sub>OH

**M** = 46.07 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** 12 °C

**CAS NO.** 64-17-5

**EINECS** 200-578-6

**NC CODE** 2207 10 00

**EC NO.** 603 002 00 5

**UN/ID NO.** 1170

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20/21/22-68/20/21/22

**S:** 16-23-36/37-45-7/9



harmful



highly flammable

Assay (exclusive about 5% methanol)	min. 99%
Methanol (CH <sub>3</sub> OH)	4-6%
Water (H <sub>2</sub> O)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

3408.5000 5 l Jerrycan

3408.9010 10 l Jerrycan

3408.9025 25 l Jerrycan

Excluding excise.

Denatured with 5% methanol.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Ethanol 96%, denatured

3407 HISTO GRADE

▶ C<sub>2</sub>H<sub>5</sub>OH

**M** = 46.07 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** 12 °C

**CAS NO.** 64-17-5

**EINECS** 200-578-6

**NC CODE** 2207 10 00

**EC NO.** 603 002 00 5

**UN/ID NO.** 1170

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20/21/22-68/20/21/22

**S:** 16-23-36/37-45-7/9



harmful



highly flammable

Assay (exclusive about 5% methanol)	min. 96%
Methanol (CH <sub>3</sub> OH)	4-6%
Water (H <sub>2</sub> O)	4-6%

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

3407.5000 5 l Jerrycan

3407.9010 10 l Jerrycan

3407.9025 25 l Jerrycan

3407.9200PE 200 l HDPE

Excluding excise.

Denatured with 5% methanol.

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Ethanol 70% Solution Denatured, Sterile

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ethanolamine

'BAKER ANALYZED'

7055

		ASSAY	PRODUCT NO.	PACKING	CONT. BOX
▶ $\text{HOCH}_2\text{CH}_2\text{NH}_2$		Assay			
<b>M</b> = 61.08 g/mol		Density (g/ml) at 25°C			
<b>1 l</b> = 1.01 kg		Heavy Metals (as Pb)	7055.1000	1 l	6
<b>FLASHPOINT</b> 85 °C		Iron (Fe)	7055.2500	2.5 l	
<b>CAS NO.</b> 141-43-5		Residue after Ignition			
<b>EINECS</b> 205-483-3					
<b>NC CODE</b> 2922 11 00					
<b>EC NO.</b> 603 030 00 8					
<b>UN/ID NO.</b> 2491					
<b>ADR/RID</b> 8 C7					
<b>IMDG</b> 8/III					
<b>R:</b> 20-36/37/38					
Xn harmful					

## Ether

See Diethyl Ether

## Ether

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ethidium Bromide

'BAKER ULTRAPURE BIOAGENT'

4007

		ASSAY	PRODUCT NO.	PACKING	CONT. BOX
▶ $\text{C}_{21}\text{H}_{20}\text{BrN}_3$		<b>For Nucleic Acid Detection</b>			
<b>M</b> = 394.31 g/mol		Assay (dried basis)			
<b>CAS NO.</b> 1239-45-8		DNase Activity	4007.0001	1 g	
<b>EINECS</b> 214-984-6		Protease Activity	4007.0005	5 g	
<b>NC CODE</b> 2933 99 90		RNase Activity			
<b>UN/ID NO.</b> 2811		UV Absorbance at Maximum			
<b>ADR/RID</b> 6.1 T2		UV Absorbance, nm			
<b>IMDG</b> 6.1/I		Visible Absorbance at Maximum			
<b>R:</b> 21/22-26-36/37/38-40		Visible Absorbance, nm			
<b>S:</b> 22-26-36/37-43A-45					
T+ very toxic					

## 2-Ethoxyethanol

'BAKER ANALYZED'

8083

		ASSAY	PRODUCT NO.	PACKING	CONT. BOX
▶ $\text{C}_2\text{H}_5\text{OCH}_2\text{CH}_2\text{OH}$		Assay (by GC)			
<b>M</b> = 90.12 g/mol		Boiling Range (95%)			
<b>1 l</b> = 0.93 kg		Density (g/ml) at 20°C	8083.1000	1 l	6
<b>FLASHPOINT</b> 40 °C		Residue after Evaporation			
<b>CAS NO.</b> 110-80-5		Water (H <sub>2</sub> O)			
<b>EINECS</b> 203-804-1					
<b>NC CODE</b> 2909 44 00					
<b>EC NO.</b> 603 012 00 0					
<b>UN/ID NO.</b> 1171					
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/III					
<b>R:</b> 10-20/21/22-60-61					
<b>S:</b> 45-53					
T toxic					

## Ethyl Acetate

9260 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

▶  $\text{CH}_3\text{COOC}_2\text{H}_5$   
**M** = 88.11 g/mol  
**1 l** = 0.90 kg  
**FLASHPOINT** -4 °C  
**CAS NO.** 141-78-6  
**EINECS** 205-500-4  
**NC CODE** 2915 31 00  
**EC NO.** 607 022 00 5  
**UN/ID NO.** 1173  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-36-66-67  
**S:** 16-26-33



Assay (by GC) (corrected for water)	min. 99.6%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Titration Acid (meq/g)	max. 0.0008
Water ( $\text{H}_2\text{O}$ )	max. 0.05%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**  
 Single Impurity Peak (pg/ml) max. 10

**FID-Sensitive Impurities (as 2-Octanol):**  
 Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9260.1000	1 l	6
9260.2500	2.5 l	4

## Ethyl Acetate

9831 BAKER ANALYZED LC-MS Reagent

▶  $\text{CH}_3\text{COOC}_2\text{H}_5$   
**M** = 88.11 g/mol  
**1 l** = 0.90 kg  
**FLASHPOINT** -4 °C  
**CAS NO.** 141-78-6  
**EINECS** 205-500-4  
**NC CODE** 2915 31 00  
**EC NO.** 607 022 00 5  
**UN/ID NO.** 1173  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-36-66-67  
**S:** 16-26-33



**Certificate Provided Reporting Actual Lot Analysis**

Assay (by GC)	min. 99.6%
Residue after Evaporation	max. 1 ppm
Water ( $\text{H}_2\text{O}$ )	max. 0.05%

**Product Information (not specifications):**  
 Density (g/ml) at 20°C 0.90

**Trace Impurities (in ppb):**

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 265 nm	max. 0.05
at 280 nm	max. 0.02

PRODUCT NO.	PACKING	CONT. BOX
9831.1000GL	1 l Glass	6

Element concentrations are at time of lot release.

## Ethyl Acetate

9282 'BAKER HPLC ANALYZED' / for Use in Liquid Chromatography and Spectrophotometry

▶  $\text{CH}_3\text{COOC}_2\text{H}_5$   
**M** = 88.11 g/mol  
**1 l** = 0.90 kg  
**FLASHPOINT** -4 °C  
**CAS NO.** 141-78-6  
**EINECS** 205-500-4  
**NC CODE** 2915 31 00  
**EC NO.** 607 022 00 5  
**UN/ID NO.** 1173  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-36-66-67  
**S:** 16-26-33



Assay (by GC) (corrected for water)	min. 99.6%
Residue after Evaporation	max. 2 ppm
Titration Acid ( $\mu\text{eq/g}$ )	max. 0.8
Water (by KF, volumetric)	max. 0.04%

**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm	max. 0.3
Measured at Emission Maximum	max. 1.0

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 265 nm	max. 0.05
at 280 nm	max. 0.02
at 330-400 nm	max. 0.01
UV Cut-off, nm	max. 255

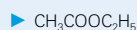
PRODUCT NO.	PACKING	CONT. BOX
9282.1000	1 l	6
9282.4000	4 l Glass	4

Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

## Ethyl Acetate

'BAKER INSTRA-ANALYZED' / GC-Spectrophotometric quality / ACS

8204



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 00

EC NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

R: 11-36-66-67

S: 16-26-33

**Meets ACS Specifications**

Assay (by GC)	min. 99.5%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.003%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0009
Water (H <sub>2</sub> O)	max. 0.2%

**Ultraviolet Absorbance (1.00-cm path vs water; curve smooth throughout stated range with no extraneous impurity peaks):**

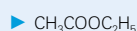
at 255 nm	max. 1.00
at 257 nm	max. 0.50
at 263 nm	max. 0.10
at 275 nm	max. 0.05
at 330-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8204.1000	1 l	

## Ethyl Acetate

'BAKER BIO-ANALYZED'

9276



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 00

EC NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

R: 11-36-66-67

S: 16-26-33



Assay (by GC) (corrected for water)	min. 99.6%
Residue after Evaporation	max. 1 ppm
Titration Acid (meq/g)	max. 0.0008
Water (H <sub>2</sub> O)	max. 300 ppm

**Fluorescence Trace Impurities (as quinine base), ppb:**

at 450 nm Emission	max. 0.3
at Emission Maximum for Impurities	max. 1.0

**Ultraviolet Absorbance (1.00-cm path vs water):**

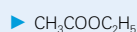
at 265 nm	max. 0.05
at 280 nm	max. 0.02
at 330-400 nm	max. 0.01
UV Cut-off, nm	max. 255

PRODUCT NO.	PACKING	CONT. BOX
9276.1000GL	1 l Glass	

## Ethyl Acetate

'BAKER ANALYZED' / ACS

8037



M = 88.11 g/mol

1 l = 0.90 kg

FLASHPOINT -4 °C

CAS NO. 141-78-6

EINECS 205-500-4

NC CODE 2915 31 00

EC NO. 607 022 00 5

UN/ID NO. 1173

ADR/RID 3 F1

IMDG 3/II

R: 11-36-66-67

S: 16-26-33

**Exceeds ACS Specifications**

Assay (by GC)	min. 99.5%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.003%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0009
Water (H <sub>2</sub> O)	max. 0.2%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8037.1000	1 l	6
8037.2500	2.5 l	4
8037.2500PE	2.5 l HDPE	4
8037.5000	5 l EcoTainer	
8037.9025	25 l	4
8037.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Ethyl Acetate

8038 'BAKER'

▶ $\text{CH}_3\text{COOC}_2\text{H}_5$	Assay (by GC)	min. 99%
<b>M</b> = 88.11 g/mol	Appearance	passes test
<b>II</b> = 0.90 kg	Residue after Evaporation	max. 0.003%
<b>FLASHPOINT</b> -4 °C	Water ( $\text{H}_2\text{O}$ )	max. 0.1%
<b>CAS NO.</b> 141-78-6		
<b>EINECS</b> 205-500-4		
<b>NC CODE</b> 2915 31 00		
<b>EC NO.</b> 607 022 00 5		
<b>UN/ID NO.</b> 1173		
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/II		
<b>R:</b> 11-36-66-67		
<b>S:</b> 16-26-33		



PRODUCT NO.	PACKING	CONT. BOX
8038.9010	10 l	
8038.9025	25 l	
8038.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Ethyl Acetate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ethylene Chloride

See 1,2-Dichloroethane

## Ethylenediamine

8409 'BAKER'

▶ $\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2$	Assay	98-100.5%
<b>M</b> = 60.10 g/mol	Heavy Metals (as Pb)	max. 0.002%
<b>II</b> = 0.90 kg	Identification	passes test
<b>FLASHPOINT</b> 34 °C	Organic Volatile Impurities	passes test
<b>CAS NO.</b> 107-15-3		
<b>EINECS</b> 203-468-6		
<b>NC CODE</b> 2921 21 00		
<b>EC NO.</b> 612 006 00 6		
<b>UN/ID NO.</b> 1604		
<b>ADR/RID</b> 8 CF1		
<b>IMDG</b> 8/II		
<b>R:</b> 10-21/22-34-42/43		
<b>S:</b> 23-26-36/37/39-45		



PRODUCT NO.	PACKING	CONT. BOX
8409.1000	1 l	
8409.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Ethylenediamine Tetraacetic Acid

See EDTA

## Ethylenediamine Tetraacetic Acid, Disodium Salt

See EDTA, Disodium Salt

## Ethylenediamine Tetraacetic Acid, Iron(III) Sodium Salt

See EDTA, Iron(III) Sodium Salt

## Ethylene Dibromide

See 1,2-Dibromoethane

## Ethylene Dichloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Ethylene Glycol

'BAKER ANALYZED'

7037

<p>▶ HOCH<sub>2</sub>CH<sub>2</sub>OH</p> <p><b>M</b> = 62.07 g/mol</p> <p><b>1 l</b> = 1.11 kg</p> <p><b>FLASHPOINT</b> 111 °C</p> <p><b>CAS NO.</b> 107-21-1</p> <p><b>EINECS</b> 203-473-3</p> <p><b>NC CODE</b> 2905 31 00</p> <p><b>EC NO.</b> 603 027 00 1</p> <p><b>R:</b> 22</p> <p> harmful</p>	Assay (by GC)	min. 99.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>	
	Acidity (as CH <sub>3</sub> COOH)	max. 0.01%				7037.1000
	Boiling Point	195-198°C	7037.2500	2.5 l	4	
	Boiling Range	194.0-200.0°C	7037.9010	10 l		
	Color (APHA)	max. 10	7037.9025	25 l		
	Density (g/ml) at 20°C	1.110-1.114	7037.9200	200 l		
	Residue after Ignition	max. 0.005%	For safe handling of 25 l tin cans, see Self-closing tap.			
	Water (H <sub>2</sub> O)	max. 0.2%				
	<b>Trace Impurities (in ppm):</b>					
	Chloride (Cl)	max. 5				
Iron (Fe)	max. 0.2					

## Ethylene Glycol MOS Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Ethylene Glycol Monoethyl Ether

See 2-Ethoxyethanol

## Ethylene Glycol Monomethyl Ether

See 2-Methoxyethanol

## Ethylene Tetrachloride

See Tetrachloroethylene

## Ethylene Trichloride

See Trichloroethylene

## Ethyl Malonate

See Diethyl Malonate

## Ethyl Methyl Ketone

See Methyl Ethyl Ketone

## Ethylparaben

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## 1-Ethylpiperidine

'BAKER'

8782

<p>▶ C<sub>2</sub>H<sub>5</sub>N(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub></p> <p><b>M</b> = 113.20 g/mol</p> <p><b>1 l</b> = 0.82 kg</p> <p><b>FLASHPOINT</b> 19 °C</p> <p><b>CAS NO.</b> 766-09-6</p> <p><b>EINECS</b> 212-161-6</p> <p><b>NC CODE</b> 2933 39 99</p> <p><b>UN/ID NO.</b> 2386</p> <p><b>ADR/RID</b> 3 FC</p> <p><b>IMDG</b> 3/II</p> <p><b>R:</b> 11-20/22-34</p> <p><b>S:</b> 16-26-36/37/39-45</p> <p> corrosive</p> <p> highly flammable</p>	Boiling Point	130-131°C	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>

## Fast Green FCF

'BAKER ANALYZED'

1476

<p>▶ C<sub>27</sub>H<sub>34</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>10</sub>S<sub>3</sub></p> <p><b>M</b> = 808.86 g/mol</p> <p><b>CAS NO.</b> 2353-45-9</p> <p><b>NC CODE</b> 3204 19 00</p>	Absorbance at maximum (0.6 mg/200 ml in 50% C <sub>2</sub> H <sub>5</sub> OH, 1-cm path)	value on label	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Absorbance Maximum, nm	value on label			
	Biological Test	passes test			
	Total Dye Content	value on label	For Histology and Cytology.		

## Fast staining in Hematology

See Hemacolour

7478

### Fehling's Reagent I

'BAKER'

**1 l** = 1.05 kg  
**CAS NO.** 7758-98-7  
**EINECS** 231-847-6  
**NC CODE** 2833 25 00  
**R:** 51/53  
**S:** 57



dangerous  
for the  
environment

Suitability for determination of reducing  
sugars passes test

PRODUCT NO.	PACKING	CONT. BOX
7478.0100	100 ml	
7478.0500	500 ml	6
7478.2500	2.5 l	

Copper(II)Sulfate solution.

7479

### Fehling's Reagent II

'BAKER'

**1 l** = 1.24 kg  
**CAS NO.** 6381-59-5  
**EINECS** 205-698-2  
**NC CODE** 2918 13 00  
**UN/ID NO.** 3266  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 20-26-36/37/39-45



corrosive

Suitability for determination of reducing  
sugars passes test

PRODUCT NO.	PACKING	CONT. BOX
7479.0100	100 ml	
7479.0500	500 ml	6
7479.2500	2.5 l	

Potassium sodium tartrate solution, alkaline.

### Ferric Ammonium Citrate, Brown

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Ferric Ammonium Citrate, Green

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Ferric Ammonium Sulfate

See Ammonium Iron(III) Sulfate Dodecahydrate

### Ferric Sub sulfate Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

7333

### Ferroun Solution 1/40 M

'BAKER ANALYZED'

$C_{36}H_{24}FeN_6O_4S$   
**1 l** = 1.00 kg  
**CAS NO.** 14634-91-4  
**EINECS** 238-676-6  
**NC CODE** 3822 00 00

Sensitivity as a redox indicator passes test

PRODUCT NO.	PACKING	CONT. BOX
7333.0100	100 ml	6
7333.0500	500 ml	

Redox Indicator.

### Ferrous Ammonium Sulfate

See Ammonium Iron (II) Sulfate Hexahydrate

### Ferrous Fumarate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Ferrous Sulfate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Ferrous Sulfate, 7-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



## Finyte, Finyte-1 chemicals

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Fixatives

See Bouin's Fixative or Formalin solution

## Florisil

Activated at 675°C / 60-100 mesh / 'BAKER ANALYZED'

3369

NC CODE 2839 90 00

**Suitable for use in chromatographic cleanup of pesticide residues****Mesh:**On U.S. No. 60 Sieve max. 10%  
Thru U.S. No. 100 Sieve max. 10%**Physical Data (not specifications):**Average Particle Diameter,  $\mu\text{m}$  (APD) 140-250  
Bulk Density (g/cc) 0.5

PRODUCT NO.	PACKING	CONT. BOX
3369.0500	500 g	
3369.2000	2 kg	

## Florisil

60-100 mesh / 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination according to ISO 9377-2 and NEN 5733

7061-00

CAS NO. 1343-88-0

EINECS 215-681-1

NC CODE 2839 90 00

Florisil recovery test with stearyl-stearate/mineral oil standard acc. to ISO 9377-2 passes test

**Physical Data (not specifications):**Average Particle Diameter,  $\mu\text{m}$  (APD) 140-250  
Bulk Density (g/cc)(typical) 0.5

PRODUCT NO.	PACKING	CONT. BOX
7061-00	100 g	

Activated magnesium silicate.  
After opening: Store in desiccator.

## Florisil

60-100 mesh / 'BAKER' / Gas Chromatographic Adsorbent

0567

CAS NO. 1343-88-0

EINECS 215-681-1

NC CODE 2839 90 00

**Physical Data (not specifications):**Average Particle Diameter,  $\mu\text{m}$  (APD) 140-250  
Bulk Density (g/cc)(typical) 0.5

PRODUCT NO.	PACKING	CONT. BOX
0567.0250	250 g	6

Activated magnesium silicate.

## Fluorescein Disodium Salt

'BAKER'

1314

▶  $2\text{-NaOCOC}_6\text{H}_4\text{C}(\text{C}_6\text{H}_3\text{-3}(\text{:O})\text{OC}_6\text{H}_3\text{-6-ONa})$ 

M = 376.28 g/mol

CAS NO. 518-47-8

EINECS 208-253-0

NC CODE 3204 12 00

Appearance passes test  
Appearance of solution passes test

PRODUCT NO.	PACKING	CONT. BOX
1314.0025	25 g Glass	6

C.I. 45350.

## Formaldehyde solution

38% (w/v) / HISTO GRADE / Fixative for histology

3859

▶  $\text{CH}_2\text{O}$ 

M = 30.03 g/mol

CAS NO. 50-00-0

EINECS 200-001-8

NC CODE 2912 11 00

EC NO. 605 001 00 5

UN/ID NO. 2209

ADR/RID 8 C9

IMDG 8/III

R: 23/24/25-34-40-43

S: 26-36/37-45-51

Formaldehyde (HCHO)(after dilution) 36 - 40 g/l  
pH 25°C (after dilution) 6.8 - 7.2

PRODUCT NO.	PACKING	CONT. BOX
3859.5000	5 l HDPE	
3859.9010	10 l Jerrycan	

Store at room temperature (18-30°C).  
Cooling down formaldehyde solution below 18°C may cause irreversible polymerisation.

toxic

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## 7040 37% / 'BAKER ANALYZED' / stabilized with 10-15% methanol

▶ HCHO	Assay	36.5-38.0%
<b>M</b> = 30.03 g/mol	Color (APHA)	max. 10
<b>1 l</b> = 1.09 kg	Preservative (CH <sub>3</sub> OH)	10- 15%
<b>FLASHPOINT</b> 60 °C	Residue after Ignition	max. 0.01%
<b>CAS NO.</b> 50-00-0	Sulfate (SO <sub>4</sub> )	max. 0.002%
<b>EINECS</b> 200-001-8	Titration Acid (meq/g)	max. 0.006
<b>NC CODE</b> 2912 11 00	<b>Trace Impurities (in ppm):</b>	
<b>EC NO.</b> 605 001 00 5	Chloride (Cl)	max. 5
<b>UN/ID NO.</b> 2209	Heavy Metals (as Pb)	max. 5
<b>ADR/RID</b> 8 C9	Iron (Fe)	max. 5
<b>IMDG</b> 8/III		
<b>R:</b> 23/24/25-34-40-43		
<b>S:</b> 26-36/37-45-51		



toxic

PRODUCT NO.	PACKING	CONT. BOX
7040.1000	1 l	6
7040.2500	2.5 l	4
7040.5000	5 l HDPE	

## 7041 37% / 'BAKER' / stabilized with 9-15% methanol

▶ HCHO	Assay	37.0-38.0%
<b>M</b> = 30.03 g/mol	Acidity	passes test
<b>1 l</b> = 1.09 kg	Appearance of solution	passes test
<b>FLASHPOINT</b> 60 °C	Identification	passes test
<b>CAS NO.</b> 50-00-0	Methanol (CH <sub>3</sub> OH)	9.0- 15.0% (v/v)
<b>EINECS</b> 200-001-8	Sulfated Ash	max. 0.1%
<b>NC CODE</b> 2912 11 00		
<b>EC NO.</b> 605 001 00 5		
<b>UN/ID NO.</b> 2209		
<b>ADR/RID</b> 8 C9		
<b>IMDG</b> 8/III		
<b>R:</b> 23/24/25-34-40-43		
<b>S:</b> 26-36/37-45-51		



toxic

PRODUCT NO.	PACKING	CONT. BOX
7041.1000	1 l	
7041.2500	2.5 l	4
7041.2500PE	2.5 l HDPE	4
7041.9010	10 l	
7041.9025	25 l	
7041.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Stored at a temperature of 15°C to 25°C.  
Stored in an airtight container.  
Stored protected from light.

## 3858 19% (w/v) / HISTO GRADE / Fixative for histology

▶ HCHO	Formaldehyde (HCHO)(after dilution)	38 - 42 g/l
<b>M</b> = 30.03 g/mol	pH 25°C (after dilution)	6.8 - 7.2
<b>1 l</b> = 1.04 kg	Sodium (Na)	61 - 71 mmol/l
<b>CAS NO.</b> 50-00-0		
<b>EINECS</b> 200-001-8		
<b>NC CODE</b> 2912 11 00		
<b>EC NO.</b> 605 001 00 5		
<b>R:</b> 20/21/22-36/37/38-40-43		
<b>S:</b> 26-36/37/39-51		



harmful

PRODUCT NO.	PACKING	CONT. BOX
3858.9020	20 L jerrycan	

Store at room temperature (18-30°C).  
Cooling down formaldehyde solution below 18°C may cause irreversible polymerisation.

## ▶ Formaldehyde Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## 3934 HISTO GRADE Formalin Neutralizer

<b>EINECS</b> 231-673-0	<b>Contains:</b>	
<b>NC CODE</b> 2832 10 00	Sodium Disulfite	min. 80%
<b>R:</b> 22-31-37-41		
<b>S:</b> 26-39		



harmful

PRODUCT NO.	PACKING	CONT. BOX
3934.5000	5 kg Plastic Pail	

Tested by an independent Sterlab Qualified environmental laboratory.

## Formalin solution

13% (v/v) / 'BAKER' / For Histology

7390

▶ HCHO		Formaldehyde (HCHO)	49-53 g/l	PRODUCT NO.	PACKING	CONT. BOX
M =	30.03 g/mol	pH at 25°C	6.8-7.2	7390.9010	10 l Polycube	
CAS NO.	50-00-0					
EINECS	200-001-8					
NC CODE	2912 11 00					
EC NO.	605 001 00 5					
R:	20/21/22-36/37/38-40-43					
S:	26-36/37/39-51					
harmful						

(4.0 g/l sodium dihydrogen phosphate, 6.5 g/l sodium monohydrogen phosphate and 130 ml/l formaldehyde sol. (37-38%) in water).

## Formalin Solution

10% (w/v) neutralized / 'BAKER ANALYZED' / stabilized with methanol

7424

▶ HCHO		Assay	9.7-10.3 %	PRODUCT NO.	PACKING	CONT. BOX
M =	30.03 g/mol					
II =	1.04 kg					
CAS NO.	50-00-0					
EINECS	200-001-8					
NC CODE	2912 11 00					
EC NO.	605 001 00 5					
R:	20/21/22-36/37/38-40-43					
S:	26-36/37/39-51					
harmful						

Store at room temperature (18-30°C).  
Cooling down formaldehyde solution below 18°C may cause irreversible polymerisation.

## Formalin Solution

10% (v/v) [= 4% (w/v)] neutralized / HISTO GRADE / Fixative for histology

3933

▶ HCHO		Formaldehyde (HCHO)	38-42 g/l	PRODUCT NO.	PACKING	CONT. BOX
M =	30.03 g/mol	pH at 25°C	6.8-7.2	3933.1000	1 l HDPE	
CAS NO.	50-00-0	Sodium (Na)	61-71 mmol/l	3933.5000PC	5 l Polycube	
EINECS	200-001-8					
NC CODE	2912 11 00					
EC NO.	605 001 00 5					
R:	40-43					
S:	36/37					
harmful						

This solution is phosphate buffered at 40 mmol/l.

## Formalin solution

10% (v/v) neutralized / 'BAKER'

7385

▶ HCHO		Formaldehyde (HCHO)	38-42 g/l	PRODUCT NO.	PACKING	CONT. BOX
EINECS	200-001-8	pH at 25°C	6.8-7.2	7385.1000	1 l	6
NC CODE	2912 11 00					
R:	40-43					
S:	26-36/37/39-45					
harmful						

Phosphate Buffered with 40 mmol/l.

## Formalin Solution

See Formaldehyde solution

## Formaline Phosphate buffered 38% (w/v) for Histology

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

## Formaline Phosphate buffered 19% (w/v) for Histology

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

## Formaline Phosphate buffered 10% (v/v) [= 4% (w/v)] for Histology

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

4028

## Formamide

'BAKER ULTRAPURE BIOREAGENT'

▶ HCONH<sub>2</sub>

**M** = 45.04 g/mol

**1 l** = 1.13 kg

**FLASHPOINT** 155 °C

**CAS NO.** 75-12-7

**EINECS** 200-842-0

**NC CODE** 2924 19 00

**R:** 61

**S:** 24/25-37-45-53



toxic

### For denaturing nucleic acids prior to analysis

Assay (by GC) min. 99.5%

Color (APHA) max. 10

Freezing Point 2.0-3.0°C

### Absorbance of a 1 M Solution, Maximum (1-cm

#### path vs water):

at 280 nm 0.1

### Trace Impurities (in ppm):

Copper (Cu) max. 0.1

Iron (Fe) max. 0.5

Lead (Pb) max. 0.5

Zinc (Zn) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
4028.0100	100 ml	
4028.0500	500 ml	

Packaged under Nitrogen. Deionization of material is not required.

7042

## Formamide

'BAKER ANALYZED'

▶ HCONH<sub>2</sub>

**M** = 45.04 g/mol

**1 l** = 1.13 kg

**FLASHPOINT** 155 °C

**CAS NO.** 75-12-7

**EINECS** 200-842-0

**NC CODE** 2924 19 00

**EC NO.** 616 052 00 8

**R:** 61

**S:** 45-53



toxic

Assay min. 99.5 %

Color (APHA) max. 25

Density (g/ml) at 20°C 1.130-1.135

Freezing Point 2 - 3°C

Heavy Metals (as Pb) max. 0.001%

Iron (Fe) max. 0.001%

Residue after Ignition max. 0.05%

Water (H<sub>2</sub>O) max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
7042.1000	1 l	6
7042.1000PE	1 l HDPE	
7042.9025	25 l	
7042.9200	200 l	

9820

## Formic Acid

99% / BAKER ANALYZED LC-MS Reagent

▶ HCOOH

**M** = 46.03 g/mol

**1 l** = 1.22 kg

**FLASHPOINT** 69 °C

**CAS NO.** 64-18-6

**EINECS** 200-579-1

**NC CODE** 2915 11 00

**EC NO.** 607 001 00 0

**UN/ID NO.** 1779

**ADR/RID** 8 C3

**IMDG** 8/II

**R:** 35

**S:** 23-26-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

Assay min. 99%

Residue after Evaporation max. 20 ppm

### LC-Gradient with Diode Array Detection (a.u.), 0.1% (v/v) aqueous solution:

at 220 nm max. 0.002

at 254 nm max. 0.002

### LC-MS Gradient Suitability Test (TIC, 100 to 2000

#### m/z), 0.1% (v/v) aqueous solution:

Positive ESI-MS Sensitive Impurities (as

Reserpine) max. 50 ppb

### Product Information (not specifications):

Density (g/ml) at 20°C 1.22

### Trace Impurities (in ppb), 0.1% (v/v) aqueous

#### solution:

Aluminium (Al) max. 50

Calcium (Ca) max. 50

Iron (Fe) max. 50

Magnesium (Mg) max. 50

Potassium (K) max. 50

Sodium (Na) max. 50

Ultraviolet Absorbance, 0.1% (v/v) aqueous solution

### (1.00-path vs water):

at 240 nm max. 0.1


at 260 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9820.0010AM	1 ml Amp. x 10	

## Formic Acid

98% / 'BAKER ANALYZED'

6037


			PRODUCT NO.	PACKING	CONT. BOX
▶ HCOOH	Assay	min. 98%	6037.1000	1 l	6
<b>M</b> = 46.03 g/mol	Acetic Acid (CH <sub>3</sub> COOH)	max. 0.4%	6037.2500	2.5 l	
<b>l l</b> = 1.22 kg	Ammonium (NH <sub>4</sub> )	max. 0.005%	6037.9060	60 l	
<b>FLASHPOINT</b> 69 °C	Chloride (Cl)	max. 0.001%			
<b>CAS NO.</b> 64-18-6	Color (APHA)	max. 15			
<b>EINECS</b> 200-579-1	Heavy Metals (as Pb)	max. 0.001%			
<b>NC CODE</b> 2915 11 00	Iron (Fe)	max. 0.001%			
<b>EC NO.</b> 607 001 00 0	Residue after Evaporation	max. 0.003%			
<b>UN/ID NO.</b> 1779	Sulfate (SO <sub>4</sub> )	max. 0.003%			
<b>ADR/RID</b> 8 C3	Sulfite (SO <sub>3</sub> )	passes test			
<b>IMDG</b> 8/II					
<b>R:</b> 35					
<b>S:</b> 23-26-45					
					

Stored at a temperature of 15°C to 25°C.

## Formic Acid

90% / 'BAKER ANALYZED'


6166

			PRODUCT NO.	PACKING	CONT. BOX
▶ HCOOH	Assay	89.5-90.5%	6166.9025	25 l	
<b>M</b> = 46.03 g/mol					
<b>l l</b> = 1.19 kg					
<b>FLASHPOINT</b> 69 °C					
<b>CAS NO.</b> 64-18-6					
<b>EINECS</b> 200-579-1					
<b>NC CODE</b> 2915 11 00					
<b>EC NO.</b> 607 001 00 0					
<b>UN/ID NO.</b> 1779					
<b>ADR/RID</b> 8 C3					
<b>IMDG</b> 8/II					
<b>R:</b> 35					
<b>S:</b> 23-26-36/37/39-45					
					

## Formic Acid

90% (PCS 7) / 'BAKER PCS'

8699

			PRODUCT NO.	PACKING	CONT. BOX
▶ HCOOH	Assay	89.8-91.5%	8699.0500	500 ml	6
<b>M</b> = 46.03 g/mol	Clarity	passes test			
<b>l l</b> = 1.19 kg	Color (APHA)	max. 10			
<b>FLASHPOINT</b> 69 °C					
<b>CAS NO.</b> 64-18-6					
<b>EINECS</b> 200-579-1					
<b>NC CODE</b> 2915 11 00					
<b>EC NO.</b> 607 001 00 0					
<b>UN/ID NO.</b> 1779					
<b>ADR/RID</b> 8 C3					
<b>IMDG</b> 8/II					
<b>R:</b> 34					
<b>S:</b> 23-26-45					
					

Polymer Characterization Solvent.

*Innovation is principal to our business.*

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
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U  
V  
W  
X  
Y  
Z

## Formic Acid

6008 88% / 'BAKER ANALYZED' / ACS

▶ HCOOH

**M** = 46.03 g/mol  
**1 l** = 1.19 kg  
**FLASHPOINT** 69 °C  
**CAS NO.** 64-18-6  
**EINECS** 200-579-1  
**NC CODE** 2915 11 00  
**EC NO.** 607 001 00 0  
**UN/ID NO.** 1779  
**ADR/RID** 8 C3  
**IMDG** 8/II  
**R:** 34  
**S:** 23-26-45



corrosive

### Meets ACS Specifications. Meets Reagent

#### Specifications for testing USP/NF monographs

Assay	min. 88.0%
Acetic Acid (CH <sub>3</sub> COOH)	max. 0.4%
Ammonium (NH <sub>4</sub> )	max. 0.005%
Color (APHA)	max. 15
Dilution Test	passes test
Residue after Evaporation	max. 0.002%
Sulfate (SO <sub>4</sub> )	max. 0.002%
Sulfite (SO <sub>3</sub> )	passes test

#### Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
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6008.0500 500 ml

## Formic Acid

9832 10% / BAKER ANALYZED LC-MS Reagent

▶ HCOOH

**1 l** = 1.02 kg  
**CAS NO.** 64-18-6  
**NC CODE** 2915 11 00  
**UN/ID NO.** 1779  
**ADR/RID** 8 C3  
**IMDG** 8/II  
**R:** 34  
**S:** 26-36/37/39-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

Assay 10 ± 0.5% (v/v)

#### Product Information (not specifications):

Density (g/ml) at 20°C 1.028

#### Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

#### Ultraviolet Absorbance (1.00-cm path vs water):

at 260 nm	max. 0.1
at 280 nm	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

9832.1000PE 1 l HDPE 6

Element concentrations are at time of lot release.

## Formic Acid

9826 0.1% / BAKER ANALYZED LC-MS Reagent

▶ HCOOH

**M** = 46.03 g/mol  
**1 l** = 1.0 kg  
**NC CODE** 2915 11 00

### Certificate Provided Reporting Actual Lot Analysis

Assay 0.1 ± 0.005% (v/v)

Residue after Evaporation max. 5 ppm

#### Gradient Elution Test (a.u.):

at 220 nm	max. 0.002
at 254 nm	max. 0.002

#### LC-Gradient-MS Suitability Test (TIC, 100 to 2000

##### m/z):

Positive ESI-MS Sensitive Impurities (as Reserpine) max. 50 ppb

#### Product Information (not specifications):

Density (g/ml) at 20°C 1.01

#### Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

#### Ultraviolet Absorbance (1.00-cm path vs water):

at 240 nm	max. 0.1
at 260 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

9826.1000GL 1 l Glass 6

Element concentrations are at time of lot release.

## Formic Acid in Acetonitrile

0.1% / BAKER ANALYZED LC-MS Reagent

9824

1 l = 0.78 kg  
**FLASHPOINT** 5 °C  
**NC CODE** 2926 90 95  
**UN/ID NO.** 1648  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22  
**S:** 16-23-26-9



### Certificate Provided Reporting Actual Lot Analysis

Assay 0.1 ± 0.005% (v/v)  
 Residue after Evaporation max. 5 ppm  
 Water (H<sub>2</sub>O) max. 0.02%

### Gradient Elution Test (a.u.):

at 220 nm max. 0.002  
 at 254 nm max. 0.002

### LC-Gradient-MS Suitability Test (TIC, 100 to 2000 m/z):

Positive ESI-MS Sensitive Impurities (as Reserpine) max. 50 ppb

### Product Information (not specifications):

Density (g/ml) at 20°C 0.78

### Trace Impurities (in ppb):

Aluminium (Al) max. 50  
 Calcium (Ca) max. 50  
 Iron (Fe) max. 50  
 Magnesium (Mg) max. 50  
 Potassium (K) max. 50  
 Sodium (Na) max. 50

### Ultraviolet Absorbance (1.00-cm path vs water):

at 260 nm max. 0.1  
 at 280 nm max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
9824.1000GL	1 l Glass	6

Element concentrations are at time of lot release.

## D-Fructopyranose

See D(-)Fructose

## D(-)Fructose

'BAKER'

1563

▶ OCC(O)C(O)C(O)CO  
**M** = 180.16 g/mol  
**CAS NO.** 57-48-7  
**EINECS** 200-333-3  
**NC CODE** 1702 50 00

Lead (Pb) max. 0.001%  
 Loss on Drying max. 0.5%  
 Residue after Ignition max. 0.05%  
 Specific Rotation [ $\alpha$ ]<sub>D</sub><sup>20</sup> (c = 10 in H<sub>2</sub>O) -91 - -93°

### Trace Impurities (in ppm):

Arsenic (As) max. 1

PRODUCT NO.	PACKING	CONT. BOX
1563.0500	500 g	

## Fuchsin or Fuchsin S

See Acid Fuchsin

## Gallium 1000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5714

▶ Ga  
**M** = 69.72 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



### Certificate Provided Reporting Actual Lot Analysis

Gallium (Ga) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5714.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

# Galli

## Gallium 10000 µg/ml

5758 (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ga

**M** = 69.72 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



**Certificate Provided Reporting Actual Lot Analysis**

Gallium (Ga) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5758.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Gallotannic Acid

See Tannin

## Gelatin

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Gentian Violet

See Crystal Violet

## Germanium 1000 µg/ml

5762 (Matrix: H<sub>2</sub>O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ge

**M** = 72.61 g/mol  
**NC CODE** 3822 00 00  
**R**: 20/21/22-36  
**S**: 26-36/37



**Certificate Provided Reporting Actual Lot Analysis**

Germanium (Ge) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5762.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Germanium 10000 µg/ml

5759 1.00% (w/v) / (Matrix: H<sub>2</sub>O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ge

**M** = 72.61 g/mol  
**NC CODE** 3822 00 00  
**R**: 20/21/22-36  
**S**: 26-36/37



**Certificate Provided Reporting Actual Lot Analysis**

Germanium (Ge) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5759.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Giemsa

3856 HEMATOLOGY/CYTOLOGY/HISTOLOGY

**1 l** = 0.79 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R**: 11-23/24/25-39-39/23/24/25  
**S**: 16-36/37/39-45



PRODUCT NO.	PACKING	CONT. BOX
3856.0100	100 ml Glass	
3856.0500	500 ml Glass	
3856.1000	1 l Glass	
3856.2500	2.5 l Glass	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



**Giemsa**

Powder / HEMATOLOGY/CYTOLOGY/HISTOLOGY / Giemsa's Azur Eosin Methylene Blue Stain, suitable for staining blood smears

3815

**CAS NO.** 51811-82-6  
**EINECS** 257-438-2  
**NC CODE** 3204 19 00  
**R:** 20/21/22-40-41  
**S:** 22-26-36



harmful

PRODUCT NO.	PACKING	CONT. BOX
3815.0025	25 g Glass	

**Gill II Hematoxyline**

See Hematoxyline (Papanicolaou 1)

**Glucitol**

See D(-)-Sorbitol

**D(+)-Glucose Anhydrous**

'BAKER ANALYZED' / ACS

0115

▶  $\text{HOCH}_2\text{CH}(\text{CHOH})_4\text{O}$ **M** = 180.16 g/mol**CAS NO.** 50-99-7**EINECS** 200-075-1**NC CODE** 1702 30 51**Exceeds ACS Specifications**

Chloride (Cl)	max. 0.01%
Insoluble Matter	max. 0.005%
Loss on Drying at 105°C	max. 0.2%
Residue after Ignition	max. 0.015%
Specific Rotation $[\alpha]_D^{25}$	+ 52.5- + 53.0°
Starch	passes test
Sulfate and Sulfite (as $\text{SO}_4$ )	max. 0.005%
Titration Acid (meq/g)	max. 0.002

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0115.0250	250 g	6
0115.1000	1 kg	6
0115.9050	50 kg	

**D(+)-Glucose Anhydrous Ultrex**

See Dextrose, Anhydrous

**D(+)-Glucose Monohydrate**

'BAKER ANALYZED'

0113

▶  $\text{HOCH}_2\text{CH}(\text{CHOH})_4\text{O} \cdot \text{H}_2\text{O}$ **M** = 198.17 g/mol**CAS NO.** 50-99-7**EINECS** 200-075-1**NC CODE** 1702 30 51

Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Residue after Ignition	max. 0.015%
Starch	passes test
Sulfate and Sulfite (as $\text{SO}_4$ )	max. 0.005%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 0.2
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0113.1000	1 kg	6
0113.9050	50 kg	

**L-Glutamic Acid**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**L-Glutamine**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**Glycerin**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Glycerol

4043 anhydrous / 'BAKER ULTRAPURE BIOREAGENT'

▶ HOCH<sub>2</sub>CHOHCH<sub>2</sub>OH  
**M** = 92.10 g/mol  
**1 l** = 1.23 kg  
**FLASHPOINT** 160 °C  
**CAS NO.** 56-81-5  
**EINECS** 200-289-5  
**NC CODE** 1520 00 00

**For Enzyme stabilization, Freezing and Electrophoresis Buffers**  
 Assay min. 99.5%  
 Color (APHA) max. 10  
 DNAase none detected  
 Fatty Acid Esters (as Butyric Acid) max.0.05%  
 Protease none detected  
 Residue after Ignition max.0.005%  
 RNAase none detected

PRODUCT NO.	PACKING	CONT. BOX
4043.0500	500 ml	
4043.4000	4 l Glass	

**Absorbance of a 1 M Solution, Maximum (1-cm path vs water):**  
 at 280 nm 0.05

**Trace Impurities (in ppm):**  
 Iron (Fe) max.5  
 Lead (Pb) max. 2  
 Mercury (Hg) max. 10  
 Zinc (Zn) max. 2

## Glycerol

7044 'BAKER ANALYZED'

▶ HOCH<sub>2</sub>CHOHCH<sub>2</sub>OH  
**M** = 92.10 g/mol  
**1 l** = 1.26 kg  
**FLASHPOINT** 160 °C  
**CAS NO.** 56-81-5  
**EINECS** 200-289-5  
**NC CODE** 1520 00 00

Assay min. 99.5%  
 Color passes test  
 Density (g/ml) at 25°C min. 1.255  
 Fatty Acid Esters max. 0.05%  
 Neutrality passes test  
 Residue after Ignition max. 0.005%  
 Silver Reducing Substances passes test  
 Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test  
 Sulfate (SO<sub>4</sub>) max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
7044.2500	2.5 l	4
7044.9010	10 l	
7044.9025	25 l	
7044.9200	200 l	

**Trace Impurities (in ppm):**  
 Chloride (Cl) max. 5  
 Heavy Metals (as Pb) max. 2

For safe handling of 25 l tin cans, see Self-closing tap.

## Glycerol

7158 'BAKER'

▶ HOCH<sub>2</sub>CHOHCH<sub>2</sub>OH  
**M** = 92.10 g/mol  
**1 l** = 1.23 kg  
**FLASHPOINT** 160 °C  
**CAS NO.** 56-81-5  
**EINECS** 200-289-5  
**NC CODE** 1520 00 00

Assay 84-89%

PRODUCT NO.	PACKING	CONT. BOX
7158.1000	1 l	6
7158.5000	5 l HDPE	

## Glycine

4059 'BAKER ULTRAPURE BIOREAGENT'

▶ NH<sub>2</sub>CH<sub>2</sub>COOH  
**M** = 75.07 g/mol  
**CAS NO.** 56-40-6  
**EINECS** 200-272-2  
**NC CODE** 2922 49 10

**For Electrophoresis, liquid Chromatography and Molecular Biology**  
 Assay (dried basis, by non-aqueous acid-base titration) min. 99.5%  
 DNAase none detected  
 Homogeneity (by TLC) no extraneous spots  
 Iron (Fe) max. 0.003%  
 Loss on Drying at 105°C max. 0.2%  
 Protease none detected  
 Readily Carbonisable Substances passes test  
 Residue after Ignition max. 0.1%  
 RNAase none detected  
 Solution Test passes test

PRODUCT NO.	PACKING	CONT. BOX
4059.0250	250 g	
4059.1000	1 kg	
4059.5000	5 kg	

**Absorbance of a 1 M Solution, Maximum (1-cm path vs water):**  
 at 280 nm 0.1

**Trace Impurities (in ppm):**  
 Arsenic (As) max. 3  
 Heavy Metals (as Pb) max. 5

## Glycine

'BAKER ANALYZED' Biochemical

1504

▶ NH <sub>2</sub> CH <sub>2</sub> COOH		Assay (by Perchloric Acid titrn.)	min. 99%	PRODUCT	PACKING	CONT.
<b>M</b> =	75.07 g/mol	Heavy Metals (as Pb)	max. 0.002%	<b>NO.</b>		<b>BOX</b>
<b>CAS NO.</b>	56-40-6	Homogeneity (by TLC)	passes test	1504.0100	100 g	
<b>EINECS</b>	200-272-2	Loss on Drying at 105°C	max. 0.2%	1504.0500	500 g	6
<b>NC CODE</b>	2922 49 10	Readily Carbonisable Substances	passes test			
		Residue after Ignition	max. 0.1%			
		<b>Trace Impurities (in ppm):</b>				
		Arsenic (As)	max. 3			
		Iron (Fe)	max. 5			

## Glycine

'BAKER'

1933

▶ NH <sub>2</sub> CH <sub>2</sub> COOH		Assay	98.5-101.5%	PRODUCT	PACKING	CONT.
<b>M</b> =	75.07 g/mol	Appearance	passes test	<b>NO.</b>		<b>BOX</b>
<b>CAS NO.</b>	56-40-6	Chloride (Cl)	max. 0.007%	1933.1000	1 kg	
<b>EINECS</b>	200-272-2	Heavy Metals (as Pb)	max. 0.002%			
<b>NC CODE</b>	2922 49 10	Hydrolyzable substances	passes test			
		Identification	passes test			
		Loss on Drying at 105°C	max. 0.2%			
		Organic Volatile Impurities	passes test			
		pH of 5% Solution at 20°C	5.9-6.4			
		Residue after Ignition	max. 0.1%			
		Sulfate (SO <sub>4</sub> )	max. 0.0065%			

## Glycoll

See Glycine


## Glycol

See Ethylene Glycol

## Glycollic Acid

68-72% / 'BAKER'


1930

▶ HOCH <sub>2</sub> COOH		Assay (HOCH <sub>2</sub> COOH)	68-72%	PRODUCT	PACKING	CONT.
<b>M</b> =	76.05 g/mol			<b>NO.</b>		<b>BOX</b>
<b>CAS NO.</b>	79-14-1			1930.0500	500 ml	
<b>EINECS</b>	201-180-5					
<b>NC CODE</b>	2918 19 80					
<b>UN/ID NO.</b>	3265					
<b>ADR/RID</b>	8 C3					
<b>IMDG</b>	8/II					
<b>R:</b>	34					
<b>S:</b>	26-36/37/39-45					
	 C					
	corrosive					

## Glyoxal

solution, 40% in H<sub>2</sub>O / Technical

M834-09

▶ OHCCO		Assay	35-45%	PRODUCT	PACKING	CONT.
<b>M</b> =	58.04 g/mol			<b>NO.</b>		<b>BOX</b>
<b>1 l</b> =	1.27 kg			M834-09	4 l Glass	
<b>CAS NO.</b>	107-22-2					
<b>EINECS</b>	203-474-9					
<b>NC CODE</b>	2912 19 00					
<b>EC NO.</b>	605 016 00 7					
<b>R:</b>	20-36/38-40-43					
<b>S:</b>	36/37					
	 Xn					
	harmful					

## Glyoxaline

See Imidazole

# Gold

## Gold 1000 µg/ml

5763 (Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Au

**M** = 196.97 g/mol  
**NC CODE** 3822 00 00

**Certificate Provided Reporting Actual Lot Analysis**

Gold (Au) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5763.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Gold 1000 µg/ml

6952 (Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Au

**M** = 196.97 g/mol  
**NC CODE** 3822 00 00

Gold (Au) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6952.0100	100 ml	
6952.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Gold 10000 µg/ml

5730 (Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Au

**M** = 196.97 g/mol  
**NC CODE** 3822 00 00

**Certificate Provided Reporting Actual Lot Analysis**

Gold (Au) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5730.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Gold Chloride

See Tetrachloroauric(III) Acid

## Granusic A

0506 Granular / 'BAKER ANALYZED' / ACS

▶ P<sub>2</sub>O<sub>5</sub>

**M** = 141.94 g/mol  
**CAS NO.** 1314-56-3  
**EINECS** 215-236-1  
**NC CODE** 2809 10 00  
**EC NO.** 15 010 00 0  
**UN/ID NO.** 1807  
**ADR/RID** 8 C2  
**IMDG** 8/II  
**R:** 35  
**S:** 22-26-45

**Exceeds ACS Specifications**

Assay	min. 99.0%
Ammonium (NH <sub>4</sub> )	max. 0.005%
Heavy Metals (as Pb)	max. 0.005%
Insoluble Matter	max. 0.01%
Phosphorus Trioxide (P <sub>2</sub> O <sub>3</sub> )	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0506.0500	500 g	
0506.1000	1 kg	6



corrosive

## Guanidine Hydrochloride

See Guanidinium Chloride

## Guanidine Hydrochloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
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V  
W  
X  
Y  
Z

## Guanidine Hydrochloride Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Guanidinium Chloride

'BAKER ULTRAPURE BIOAGENT' / For Protein Denaturation and Nucleic Acid Purification

4168

▶  $\text{NH}_2(\text{:NH})\text{NH}_2\cdot\text{HCl}$

**M** = 95.53 g/mol

**CAS NO.** 50-01-1

**EINECS** 200-002-3

**NC CODE** 2925 20 00

**EC NO.** 607 148 00 0

**R:** 22-36/38

**S:** 22



harmful

#### GMP Manufactured Product

Assay	99.5-101.0%
Acidity (as HCl)	max. 0.01%
DNase Activity	none detected
Loss on Drying at 105°C	max. 0.5%
Melamine and Related Compounds (g/l)	act. value reported
Nitrate ( $\text{NO}_3$ )	max. 0.005%
Particulate Matter	passes test
Protease Activity	none detected
Residue after Ignition	max. 0.05%
RNase Activity	none detected
Sulfate ( $\text{SO}_4$ )	max. 0.005%

#### Absorbance of a 6M Aqueous Solution:

at 230 nm	act. value reported
at 260 nm	max. 0.03
at 275 nm	max. 0.03

#### Trace Impurities (in ppm):

Arsenic and Antimony (as As)	max. 0.5
Copper (Cu)	max. 0.2
Cyanide (CN)	max. 0.1
Iron (Fe)	max. 2
Lead (Pb)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
4168.9012	12 kg	

### Guanidinium Chloride

Biotech Reagent

4075

▶  $\text{NH}_2\text{C}(\text{:NH})\text{NH}_2\cdot\text{HCl}$

**M** = 95.53 g/mol

**CAS NO.** 50-01-1

**EINECS** 200-002-3

**NC CODE** 2925 20 00

**EC NO.** 607 148 00 0

**R:** 22-36/38

**S:** 22



harmful

#### GMP Manufactured Product

Assay ( $\text{NH}_2\text{C}(\text{:NH})\text{NH}_2\cdot\text{HCl}$ )	99.5-101.0%
Appearance	passes test
Iron (Fe)	max. 2 ppm
Loss on Drying at 105°C	max. 0.5%
Melamine and Related Compounds (g/l)	act. value reported
Melting Range	information only
Water-Insoluble Matter	max. 0.3%

#### Ultraviolet Absorbance (1.00-cm path vs water):

at 260 nm	act. value reported
at 275 nm	act. value reported

PRODUCT NO.	PACKING	CONT. BOX
4075.0500	500 g	
4075.9012	12 kg	

### Guanidinium Chloride

8 mol/l / 'BAKER ULTRAPURE BIOAGENT'

4045

▶  $\text{NH}_2\text{C}(\text{:NH})\text{NH}_2\cdot\text{HCl}$

**M** = 95.53 g/mol

**CAS NO.** 50-01-1

**EINECS** 200-002-3

**NC CODE** 2925 20 00

**EC NO.** 607 148 00 0

**R:** 22-36/38

**S:** 26-36/37



harmful

#### GMP Manufactured Product

Cyanide (CN)	passes test
Density (g/ml) at 25°C	1.1-1.3
DNase Activity	none detected
Molarity (by titrimetry)	7.8-8.2
Protease Activity	none detected
RNase Activity	none detected
Solution Test	passes test
Sulfate ( $\text{SO}_4$ )	max. 0.005%

#### Trace Impurities (in ppm):

Copper (Cu)	max. 0.1
Iron (Fe)	max. 1

#### Ultraviolet Absorbance (1.00-cm path vs water;

curve smooth throughout stated range with no

extraneous impurity peaks):

at 260 nm	max. 0.04
-----------	-----------

PRODUCT NO.	PACKING	CONT. BOX
4045.4000	4 l Glass	

### Harris Hematoxyline

See Hematoxyline (Papanicolaou 1)

## Hemacoulour

3719 Hematology

1 l = 0.79 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-36/38-39/23/24/25  
**S:** 16-36/37-45-7



*Staining solution for blood smears*

PRODUCT NO.	PACKING	CONT. BOX
3719.0300	300 ml Glass	
3719.1000	1 l Glass	

## Hematoxyline

3870 Histology

**NC CODE** 3822 00 00  
**UN/ID NO.** 2810  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22  
**S:** 36



*Hematoxyline Solution according to Mayer for use in HE staining*

PRODUCT NO.	PACKING	CONT. BOX
3870.1000	1 l Glass	
3870.2500	2.5 l Glass	

## Hematoxyline (Papanicolaou 1)

3873 Histology - Cytology

**NC CODE** 3822 00 00  
**R:** 22  
**S:** 36



*Hematoxyline (Papanicolaou I), modified to match Gill II and Harris*

PRODUCT NO.	PACKING	CONT. BOX
3873.1000	1 l Glass	
3873.2500	2.5 l Glass	

## Hematoxyline Solution for HE staining

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

## HEPES

4018 'BAKER ULTRAPURE BIOREAGENT' / For Liquid Chromatography and Molecular Biology Buffers

▶  $\text{CH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{OH})\text{CH}_2\text{CH}_2\text{NCH}_2\text{CH}_2\text{SO}_3\text{H}$   
**M** = 238.31 g/mol  
**CAS NO.** 7365-45-9  
**EINECS** 230-907-9  
**NC CODE** 2933 59 95

Assay min. 99%  
 Appearance passes test  
 Ash (sulfated) max. 0.2%  
 DNAase none detected  
 pH of 5% Solution at 25°C 5.0-6.5  
 Protease none detected  
 RNAase none detected

**Absorbance of a 0.1M Solution (1-cm path vs water):**

at 260 nm max. 0.05  
 at 280 nm max. 0.05

**Trace Impurities (in ppm):**

Arsenic and Antimony (as As) max. 0.05  
 Heavy Metals (as Pb) max. 5  
 Iron (Fe) max. 5

PRODUCT NO.	PACKING	CONT. BOX
4018.0025	25 g Glass	
4018.0100	100 g	
4018.0500	500 g	
4018.5000	5 kg	

Ref. Good.N., et al. (1966) Biochemistry, 5:467.

*Innovation is principal to our business.*

**HEPES sodium salt**  
‘BAKER ULTRAPURE BIOREAGENT’

4153

<p>▶ <math>C_9H_{17}N_2NaO_4S</math>  <b>M</b> = 260.29 g/mol  <b>CAS NO.</b> 75277-39-3  <b>NC CODE</b> 2933 59 95</p>	Assay (dried basis)	min. 99.0%	<table border="1"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>4153.0025</td> <td>25 g Glass</td> <td></td> </tr> <tr> <td>4153.1000</td> <td>1 kg</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	4153.0025	25 g Glass		4153.1000	1 kg	
	PRODUCT NO.	PACKING		CONT. BOX								
	4153.0025	25 g Glass										
	4153.1000	1 kg										
	Appearance	passes test										
	DNase Activity	none detected										
	Heavy Metals (as Pb)	max. 1 ppm										
	Insoluble Matter	max. 1.0%										
	Loss on Drying at 80°C	max. 3.0%										
	pKa at 20°C	act. value reported										
Protease Activity	none detected											
RNase Activity	none detected											
Solubility	passes test											

**n-Heptane**

99% n-Heptane / ‘BAKER ULTRA RESI-ANALYZED’ / for Organic Residue Analysis

9338

<p>▶ <math>CH_3(CH_2)_5CH_3</math>  <b>M</b> = 100.21 g/mol  <b>1 l</b> = 0.68 kg  <b>FLASHPOINT</b> -4 °C  <b>CAS NO.</b> 142-82-5  <b>EINECS</b> 205-563-8  <b>NC CODE</b> 2901 10 00  <b>EC NO.</b> 601 008 00 2  <b>UN/ID NO.</b> 1206  <b>ADR/RID</b> 3 F1  <b>IMDG</b> 3/II  <b>R:</b> 11-38-50/53-65-67  <b>S:</b> 16-29-33-60-61-62-9</p>	Assay (by GC) (corrected for water)	min. 99.0%	<table border="1"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>9338.1000</td> <td>1 l</td> <td></td> </tr> <tr> <td>9338.4000</td> <td>4 l Glass</td> <td>4</td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	9338.1000	1 l		9338.4000	4 l Glass	4
	PRODUCT NO.	PACKING		CONT. BOX								
	9338.1000	1 l										
	9338.4000	4 l Glass		4								
	Color (APHA)	max. 10										
	Residue after Evaporation	max. 1 ppm										
	Substances Darkened by $H_2SO_4$	passes test										
	Water ( $H_2O$ )	max. 0.01%										
	<b>ECD Sensitive Impurities (as Heptachlor Epoxide):</b>											
	Single Impurity Peak (pg/ml)	max. 10										
<b>FID-Sensitive Impurities (as 2-Octanol):</b>												
Single Impurity Peak (ng/ml)	max. 5											
<b>Neat solvent front characterization: ECD-Sensitive Impurities (as Ethylene Dibromide):</b>												
Single Impurities (ng/ml)	max. 5											



**n-Heptane**

99% n-Heptane / ‘BAKER HPLC ANALYZED’ / for Use in Liquid Chromatography and Spectrophotometry

9177

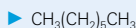
<p>▶ <math>CH_3(CH_2)_5CH_3</math>  <b>M</b> = 100.21 g/mol  <b>1 l</b> = 0.68 kg  <b>FLASHPOINT</b> -4 °C  <b>CAS NO.</b> 142-82-5  <b>EINECS</b> 205-563-8  <b>NC CODE</b> 2901 10 00  <b>EC NO.</b> 601 008 00 2  <b>UN/ID NO.</b> 1206  <b>ADR/RID</b> 3 F1  <b>IMDG</b> 3/II  <b>R:</b> 11-38-50/53-65-67  <b>S:</b> 16-29-33-60-61-62-9</p>	Assay (by GC) (corrected for water)	min. 99.0%	<table border="1"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>9177.1000</td> <td>1 l</td> <td></td> </tr> <tr> <td>9177.2500</td> <td>2.5 l</td> <td>4</td> </tr> <tr> <td>9177.5000</td> <td>5 l EcoTainer</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	9177.1000	1 l		9177.2500	2.5 l	4	9177.5000	5 l EcoTainer	
	PRODUCT NO.	PACKING		CONT. BOX											
	9177.1000	1 l													
	9177.2500	2.5 l		4											
	9177.5000	5 l EcoTainer													
	Density (g/ml) at 20°C	0.684													
	Residue after Evaporation	max. 2 ppm													
	Substances Darkened by $H_2SO_4$	passes test													
	Water (by KF, coulometric)	max. 0.01%													
	<b>Fluorescence Trace Impurities (as quinine base), ppb:</b>														
at 450 nm Emission	max. 0.2														
at Emission Maximum for Impurities	max. 1.0														
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>															
at 210 nm	max. 0.40														
at 220 nm	max. 0.10														
at 254-400 nm	max. 0.01														
UV Cut-off, nm	max. 197														



Filtered through a 0.2 micron filter.  
Packaged under Nitrogen.

Questions or suggestions, please contact us  
at [jtbaker.nl@emea.tycohealthcare.com](mailto:jtbaker.nl@emea.tycohealthcare.com)

**9365** 99% n-Heptane / BakerDRY / Low Water Solvent



**M** = 100.21 g/mol

**1 l** = 0.68 kg

**FLASHPOINT** -4 °C

**CAS NO.** 142-82-5

**EINECS** 205-563-8

**NC CODE** 2901 10 00

**EC NO.** 601 008 00 2

**UN/ID NO.** 1206

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous for the environment



harmful



highly flammable

Assay ( $\text{CH}_3(\text{CH}_2)_5\text{CH}_3$ )(by GC)

min. 98.5%

Color (APHA)

max. 10

Residue after Evaporation

max. 0.001%

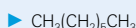
Water (by KF, coulometric)

max. 20 ppm

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

9365.1000 1 l

**9185** 99% n-Heptane / 'BAKER BIO-ANALYZED'



**M** = 100.21 g/mol

**1 l** = 0.68 kg

**FLASHPOINT** -4 °C

**CAS NO.** 142-82-5

**EINECS** 205-563-8

**NC CODE** 2901 10 00

**EC NO.** 601 008 00 2

**UN/ID NO.** 1206

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous for the environment



harmful



highly flammable

Assay ( $\text{CH}_3(\text{CH}_2)_5\text{CH}_3$ )(by GC, corrected for water)

min. 99.0%

Color (APHA)

max. 10

Residue after Evaporation

max. 1 ppm

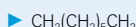
Water (by KF, coulometric)

max. 100 ppm

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

9185.1000GL 1 l Glass

**8110** 99% n-Heptane / 'BAKER ANALYZED'



**M** = 100.21 g/mol

**1 l** = 0.68 kg

**FLASHPOINT** -4 °C

**CAS NO.** 142-82-5

**EINECS** 205-563-8

**NC CODE** 2901 10 00

**EC NO.** 601 008 00 2

**UN/ID NO.** 1206

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous for the environment



harmful



highly flammable

Assay (by GC)

min. 99%

Boiling Range

97.5-99°C

Color (APHA)

max.10

Recorded Boiling Point

98.4°C

Residue after Evaporation

max. 0.001%

Total Sulfur Compounds (as S)

max. 0.005%

Water (H<sub>2</sub>O)

max. 0.01%

**Physical Data (not specifications):**

Density (g/ml) at 20°C

0.683-0.684

**Trace Impurities (in ppm):**

Aluminium (Al)

max. 0.5

Barium (Ba)

max. 0.1

Boron (B)

max. 0.02

Cadmium (Cd)

max. 0.05

Calcium (Ca)

max. 0.5

Chromium (Cr)

max. 0.02

Cobalt (Co)

max. 0.02

Copper (Cu)

max. 0.02

Iron (Fe)

max. 0.1

Lead (Pb)

max. 0.1

Magnesium (Mg)

max. 0.1

Manganese (Mn)

max. 0.02

Nickel (Ni)

max. 0.02

Tin (Sn)

max. 0.1

Zinc (Zn)

max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

8110.1000 1 l

8110.2500 2.5 l

8110.9025 25 l

8110.9200 200 l

For safe handling of 25 l tin cans, see Self-closing tap.



**n-Heptane**

95% n-Heptane / 'BAKER'

8662

CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>		Assay (by GC)	min. 95%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
		Boiling Point	98-99°C.	<b>NO.</b>		<b>BOX</b>
<b>M</b> =	100.21 g/mol			8662.1000	1 l	
<b>1 l</b> =	0.68 kg			8662.2500	2.5 l	
<b>FLASHPOINT</b>	-4 °C			8662.9025	25 l	
<b>CAS NO.</b>	142-82-5			8662.9200	200 l	
<b>EINECS</b>	205-563-8			For safe handling of 25 l tin cans, see Self-closing tap.		
<b>NC CODE</b>	2901 10 00					
<b>EC NO.</b>	601 008 00 2					
<b>UN/ID NO.</b>	1206					
<b>ADR/RID</b>	3 F1					
<b>IMDG</b>	3/II					
<b>R:</b>	11-38-50/53-65-67					
<b>S:</b>	16-29-33-60-61-62-9					
dangerous for the environment	harmful	highly flammable				

**n-Heptane**

94-99°C / 'BAKER'

8111

CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>		Boiling Range	94-99°C	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
				<b>NO.</b>		<b>BOX</b>
<b>M</b> =	100.21 g/mol			8111.1000	1 l	
<b>1 l</b> =	0.68 kg			8111.5000	5 l EcoTainer	
<b>FLASHPOINT</b>	-4 °C			8111.9200	200 l	
<b>CAS NO.</b>	142-82-5					
<b>EINECS</b>	205-563-8					
<b>NC CODE</b>	2901 10 00					
<b>EC NO.</b>	601 008 00 2					
<b>UN/ID NO.</b>	1206					
<b>ADR/RID</b>	3 F1					
<b>IMDG</b>	3/II					
<b>R:</b>	11-38-50/53-65-67					
<b>S:</b>	16-29-33-60-61-62-9					
dangerous for the environment	harmful	highly flammable				

**1-Heptanesulfonic Acid Sodium Salt**

'BAKER HPLC ANALYZED'

2173

CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> SO <sub>3</sub> Na		<i>For Ion-Pair Chromatography of Basic Compounds</i>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
		Assay (acidimetric)	min. 98.0%	<b>NO.</b>		<b>BOX</b>
<b>M</b> =	220.26 g/mol			2173.0025	25 g Glass	
<b>CAS NO.</b>	22767-50-6	<b>UV Absorbance of 0.25M Solution:</b>				
<b>EINECS</b>	245-210-5	at 200 nm	max. 0.2			
<b>NC CODE</b>	2904 10 00	at 210 nm	max. 0.08			
		at 220 nm	max. 0.06			
		at 230 nm	max. 0.05			
		at 240 nm	max. 0.05			
		at 250 nm	max. 0.05			

**Hexachlorplatinum(IV) Acid Hexahydrate**

See Chloroplatinic Acid Hexahydrate



[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

A  
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Y  
Z

## n-Hexadecane

7194 'BAKER'

▶ $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$ <b>M</b> = 226.45 g/mol <b>1 l</b> = 0.77 kg <b>FLASHPOINT</b> 135 °C <b>CAS NO.</b> 544-76-3 <b>EINECS</b> 208-878-9 <b>NC CODE</b> 2901 10 00 <b>R:</b> 65 <b>S:</b> 23A-24-62 	Assay (by GC)	min. 99%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Freezing Point	18-19°C			
			7194.0250	250 ml	6

## 1,1,1,3,3,3-Hexafluoro-2-propanol

7108 'BAKER ANALYZED'

▶ $\text{CF}_3\text{CHOHCF}_3$ <b>M</b> = 168.04 g/mol <b>1 l</b> = 1.62 kg <b>CAS NO.</b> 920-66-1 <b>EINECS</b> 213-059-4 <b>NC CODE</b> 2905 59 10 <b>UN/ID NO.</b> 3265 <b>ADR/RID</b> 8 C3 <b>IMDG</b> 8/II <b>R:</b> 20-34-37 <b>S:</b> 26-36/37/39-45 	Assay (by GC) (corrected for water)	min. 99%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Color (APHA)	max. 10			
	Residue after Evaporation	max. 0.01%	7108.0100	100 ml	
	Water (H <sub>2</sub> O)	max. 0.05%			
	<b>Product Information (not specifications):</b>				
	Boiling Point (typical)	58.2°C			

## ▶ Hexamethyldisilazane (HMDS) CMOS, Finyte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Hexamethylenetetramine

3371 'BAKER ANALYZED' / ACS

▶ $(\text{CH}_2)_6\text{N}_4$ <b>M</b> = 140.19 g/mol <b>CAS NO.</b> 100-97-0 <b>EINECS</b> 202-905-8 <b>NC CODE</b> 2933 69 20 <b>EC NO.</b> 612 101 00 2 <b>UN/ID NO.</b> 1328 <b>ADR/RID</b> 4.1 F1 <b>IMDG</b> 4.1/III <b>R:</b> 11-42/43 <b>S:</b> 16-22-24-37 	<b>Exceeds ACS Specifications</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Assay (dried)	min. 99.0%			
	Heavy Metals (as Pb)	max. 0.001%	3371.0500	500 g	6
	Insoluble Matter	max. 0.005%			
	Loss on Drying	max. 2.0%			
	Residue after Ignition	max. 0.1%			

*J.T. Baker: over 100 years of experience.*

See chapter 1 of this catalogue.



# Karl Fischer reagents

In several industries water determination with Karl Fischer reagents is an important analytical technique, for both research and quality control purposes.

## Major fields of application for Karl Fischer reagents:

- Pharmaceutical/vitamins
- Food / drinks / beverages / flavours / wine
- Petrochemistry
- Other chemical industries

## We offer a complete product line:

- Volumetric reagents (for > 100 ppm water)
  - One component reagents
  - Two component reagents
- Coulometric reagents (for < 100 ppm water)
  - With diaphragm
  - Without diaphragm

## Program highlights:

### Volumetric

- Safer: pyridine free
- Productive: end point reached quickly, accurately and with high reproducibility
- Accurate: stable end point and less drift.

### Coulometric

- Accurate: less background noise, especially below 10 ppm
- Trouble free: a lower amount of reduction products
- Fast: high imidazole buffer concentration
- Safer: HYDRA-POINT coulometric gen and oven are halogen free reagents
- Easy: only five products for a broad range of applications
- Innovative: coulometric reagent line is patent pending (*reference Prof. A. Cedergren, Department of Chemistry, Umea University, Sweden*)

Our trade name for the Karl Fischer reagents line is HYDRA-POINT. For our complete reagent line, see the alphabetical listings.

# Hexam

## Hexamethylenetetramine

1113 'BAKER'

▶ (CH <sub>2</sub> ) <sub>6</sub> N <sub>4</sub>	Assay (dried)	min. 99.0%
<b>M</b> = 140.19 g/mol	Appearance	passes test
<b>CAS NO.</b> 100-97-0	Appearance of solution	passes test
<b>EINECS</b> 202-905-8	Identification	passes test
<b>NC CODE</b> 2933 69 20		
<b>EC NO.</b> 612 101 00 2		
<b>UN/ID NO.</b> 1328		
<b>ADR/RID</b> 4.1 F1		
<b>IMDG</b> 4.1/III		
<b>R:</b> 11-42/43		
<b>S:</b> 16-22-24-37		



PRODUCT NO.	PACKING	CONT. BOX
1113.9050	50 kg	

## ▶ Hexamethyl p-rosanilinium Chloride

See Crystal Violet

## ▶ Hexamine

See Hexamethylenetetramine

## Hexane

8668 99% n-Hexane / 'BAKER ANALYZED'

▶ CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	Assay (by GC)	min. 99%
<b>M</b> = 86.18 g/mol	Aromatic Compounds (as C <sub>6</sub> H <sub>6</sub> )	max. 0.02%
<b>1 l</b> = 0.66 kg	Boiling Range	max. 2°C
<b>FLASHPOINT</b> < -23 °C	Density (g/ml) at 25°C	max. 0.657
<b>CAS NO.</b> 110-54-3	Recorded Boiling Point	68.7°C
<b>EINECS</b> 203-777-6	Residue after Evaporation	max. 5 ppm
<b>NC CODE</b> 2901 10 00	Sulfur Compounds (as S)	max. 0.005%
<b>EC NO.</b> 601 037 00 0	Thiophene	passes test
<b>UN/ID NO.</b> 1208	Water (H <sub>2</sub> O)	max. 0.02%
<b>ADR/RID</b> 3 F1	Water Soluble Titrable Acid (meq/g)	max. 0.0003
<b>IMDG</b> 3/II		
<b>R:</b> 11-38-48/20-51/53-62-65-67		
<b>S:</b> 16-29-33-36/37-61-62-9		



### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8668.1000	1 l	6
8668.2500	2.5 l	4
8668.5000	5 l EcoTainer	
8668.9025	25 l	

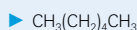
EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

Certificates of Analysis are available  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Hexane

99% n-Hexane / 'BAKER ANALYZED' / GC-Spectrophotometric quality / ACS

8205



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT -23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 00

EC NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

R: 11-38-48/20-51/53-62-65-67

S: 16-29-33-36/37-61-62-9

N  
dangerous  
for the  
environmentXn  
harmfulF  
highly  
flammable**Exceeds ACS Specifications**

Assay (n-hexane)	min. 99%
Assay (sum of 5 isomers, total hexanes plus methylcyclopentane)	min. 99%
Aromatic Compounds (as $\text{C}_6\text{H}_6$ )	max. 0.02%
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water Soluble Titrable Acid (meq/g)	max. 0.0002

**Ultraviolet Absorbance (1.00-cm path vs water; curve smooth throughout stated range with no extraneous impurity peaks):**

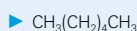
at 210 nm	max. 1.00
at 220 nm	max. 0.20
at 230 nm	max. 0.10
at 240 nm	max. 0.04
at 250 nm	max. 0.02
at 280-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8205.0500	500 ml	
8205.1000	1 l	

## Hexane

BakerDRY / Low Water Solvent / ACS

9277



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT &lt; -23 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 00

EC NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

R: 11-38-48/20-51/53-62-65-67

S: 16-29-33-36/37-61-62-9

N  
dangerous  
for the  
environmentXn  
harmfulF  
highly  
flammable**Meets ACS Specifications**

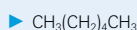
Assay ( $\text{C}_6\text{H}_{14}$ )(by GC)(total isomers)	min. 98.5%
Color (APHA)	max. 10
Residue after Evaporation	max. 2 ppm
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water (by KF, coulometric)	max. 20 ppm
Water Soluble Titrable Acid (meq/g)	max. 0.0003

PRODUCT NO.	PACKING	CONT. BOX
9277.1000	1 l	

## Hexane

95% n-Hexane / 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9262



M = 86.18 g/mol

1 l = 0.66 kg

FLASHPOINT &lt; -20 °C

CAS NO. 110-54-3

EINECS 203-777-6

NC CODE 2901 10 00

EC NO. 601 037 00 0

UN/ID NO. 1208

ADR/RID 3 F1

IMDG 3/II

R: 11-38-48/20-51/53-62-65-67

S: 16-29-33-36/37-61-62-9

N  
dangerous  
for the  
environmentXn  
harmfulF  
highly  
flammable

Assay (total saturated $\text{C}_6$ isomers)(by GC, corrected for water)	min. 99.5%
Color (APHA)	max. 10
n-Hexane (by GC) (corrected for water)	min. 95%
Residue after Evaporation	max. 1 ppm
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Water ( $\text{H}_2\text{O}$ ) (by Coulometry)	max. 0.05%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**

Single Impurity Peak (pg/ml) max. 10

**FID-Sensitive Impurities (as 2-Octanol):**

Single Impurity Peak (ng/ml) max. 5

**Neat solvent front characterization: ECD-Sensitive Impurities (as Ethylene Dibromide):**

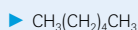
Single Impurities (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9262.1000	1 l	6
9262.2500	2.5 l	4

# Hexan

## Hexane

9304 95% n-Hexane / 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography



**M** = 86.18 g/mol

**1 l** = 0.66 kg

**FLASHPOINT** -23 °C

**CAS NO.** 110-54-3

**EINECS** 203-777-6

**NC CODE** 2901 10 00

**EC NO.** 601 037 00 0

**UN/ID NO.** 1208

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-48/20-51/53-62-65-67

**S:** 16-29-33-36/37-61-62-9



dangerous for the environment



harmful



highly flammable

Assay (by GC) min. 95%

Residue after Evaporation max. 2 ppm

Substances Darkened by  $\text{H}_2\text{SO}_4$  passes test

Water ( $\text{H}_2\text{O}$ ) max. 0.01%

**Ultraviolet Absorbance (1.00-cm path vs water;**

**curve smooth throughout stated range with no**

**extraneous impurity peaks):**

at 210 nm max. 0.2

at 220 nm max. 0.08

at 254 nm max. 0.008

at 280 nm max. 0.005

at 350 nm max. 0.005

UV Cut-off, nm max. 192

PRODUCT NO.	PACKING	CONT. BOX
9304.1000	1 l	6
9304.2500	2.5 l	4
9304.5000	5 l EcoTainer	

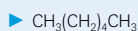
EcoTainer, the metal solvent can for more safety in the lab.

Filtered through a 0.2 micron filter.

Packaged under Nitrogen.

## Hexane

8710 95% n-Hexane / 'BAKER ANALYZED' / Ultraviolet Spectrophotometry



**M** = 86.18 g/mol

**1 l** = 0.66 kg

**FLASHPOINT** < -22 °C

**CAS NO.** 110-54-3

**EINECS** 205-563-8

**NC CODE** 2901 10 00

**EC NO.** 601 037 00 0

**UN/ID NO.** 1208

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-48/20-51/53-62-65-67

**S:** 16-29-33-36/37-61-62-9



dangerous for the environment



harmful



highly flammable

Assay (by GC) min. 95%

Boiling Range (initial to dry point) 68.0-70.0°C

Color (APHA) max. 10

Recorded Boiling Point 68.7°C

Residue after Evaporation max. 5 ppm

Sulfur Compounds (as S) max. 0.005%

Thiophene passes test

Water ( $\text{H}_2\text{O}$ ) max. 0.05%

Water Soluble Titrable Acid (meq/g) max. 0.0003

**Physical Data (not specifications):**

Density (g/ml) at 25°C 0.687

**Ultraviolet Absorbance (1.00-cm path vs water;**

**curve smooth throughout stated range with no**

**extraneous impurity peaks):**

at 210 nm max. 1.00

at 220 nm max. 0.20

at 230 nm max. 0.10

at 240 nm max. 0.04

at 250 nm max. 0.02

at 280-400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8710.2500	2.5 l	4

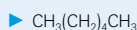
*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Hexane

95% n-Hexane / 'BAKER ANALYZED'

8044

**M** = 86.18 g/mol**1 l** = 0.66 kg**FLASHPOINT** -23 °C**CAS NO.** 110-54-3**EINECS** 203-777-6**NC CODE** 2901 10 00**EC NO.** 601 037 00 0**UN/ID NO.** 1208**ADR/RID** 3 F1**IMDG** 3/II**R:** 11-38-48/20-51/53-62-65-67**S:** 16-29-33-36/37-61-62-9N  
dangerous  
for the  
environmentXn  
harmfulF  
highly  
flammable

Assay (by GC)	min. 95%
Aromatic Compounds (as $\text{C}_6\text{H}_6$ )	max. 0.02%
Color (APHA)	max. 10
Density (g/ml) at 25°C	max. 0.657
Residue after Evaporation	max. 0.001%
Sulfur Compounds (as S)	max. 0.005%
Thiophene	passes test
Water Soluble Titrable Acid (meq/g)	max. 0.0003

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
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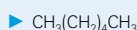
8044.1000	1 l	6
8044.2500	2.5 l	4
8044.5000	5 l EcoTainer	4
8044.9025	25 l	
8044.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Hexane

95% n-Hexane / 'BAKER'

8669

**M** = 86.18 g/mol**1 l** = 0.66 kg**FLASHPOINT** -23 °C**CAS NO.** 110-54-3**EINECS** 203-777-6**NC CODE** 2901 10 00**EC NO.** 601 037 00 0**UN/ID NO.** 1208**ADR/RID** 3 F1**IMDG** 3/II**R:** 11-38-48/20-51/53-62-65-67**S:** 16-29-33-36/37-61-62-9N  
dangerous  
for the  
environmentXn  
harmfulF  
highly  
flammable

Assay (by GC)	min. 95%
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PRODUCT NO.	PACKING	CONT. BOX
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8669.1000	1 l	6
8669.2500	2.5 l	4
8669.5000	5 l EcoTainer	
8669.9025	25 l	4
8669.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## iso-Hexane

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9305

**M** = 86.18 g/mol**1 l** = 0.66 kg**FLASHPOINT** -23 °C**CAS NO.** 64742-49-0**NC CODE** 2901 10 00**UN/ID NO.** 1208**ADR/RID** 3 F1**IMDG** 3/II**R:** 11-38-48/20-51/53-62-65-67**S:** 16-29-33-36/37-61-62-9N  
dangerous  
for the  
environmentXn  
harmfulF  
highly  
flammable

Assay (as $\text{C}_6\text{H}_{14}$ isomers)	min. 95%
n-Hexane	max. 3%
Residue after Evaporation	max. 0.0005%
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Water ( $\text{H}_2\text{O}$ )	max. 0.01%

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 210 nm	max. 0.2
at 220 nm	max. 0.08
at 254 nm	max. 0.008
at 280 nm	max. 0.005
at 350 nm	max. 0.005
UV Cut-off, nm	max. 192

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

9305.2500	2.5 l	4
9305.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

Filtered through a 0.2 micron filter.  
Packaged under Nitrogen.

# Hexan

## iso-Hexane

9267 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination

▶ C<sub>6</sub>H<sub>14</sub>

**M** = 86.18 g/mol

**1 l** = 0.66 kg

**FLASHPOINT** -23 °C

**CAS NO.** 64742-49-0

**NC CODE** 2901 10 00

**UN/ID NO.** 1208

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-48/20-51/53-62-65-67

**S:** 16-29-33-36/37-61-62-9



dangerous for the environment



harmful



highly flammable

Color (APHA) max. 10

Residue after Evaporation max. 5 ppm

Water (H<sub>2</sub>O) max. 0.01%

**Hydrocarbon oil index concentration (as RIVM oil reference standard):**

Total peaks between n-decane (C<sub>10</sub>H<sub>22</sub>) and n-tetracontane (C<sub>40</sub>H<sub>82</sub>) max. 0.5 mg/l

PRODUCT NO.	PACKING	CONT. BOX
9267.1000	1 l	
9267.2500	2.5 l	

Suitable for determination of Hydrocarbon Oil Index according to ISO 9377-2.

## iso-Hexane

8043 'BAKER ANALYZED'

▶ C<sub>6</sub>H<sub>14</sub>

**M** = 86.18 g/mol

**1 l** = 0.66 kg

**FLASHPOINT** -23 °C

**CAS NO.** 64742-49-0

**NC CODE** 2901 10 00

**UN/ID NO.** 1208

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-48/20-51/53-62-65-67

**S:** 16-29-33-36/37-61-62-9



dangerous for the environment



harmful



highly flammable

Assay (as C<sub>6</sub>H<sub>14</sub> isomers) min. 95%

Aromatic Compounds (as C<sub>6</sub>H<sub>6</sub>) max. 0.01%

Boiling Range (initial to dry point) 56 - 63°C

Color (APHA) max. 10

n-Hexane max. 3%

Residue after Evaporation max. 0.001%

Sulfur Compounds (as S) max. 0.005%

Thiophene passes test

Water (H<sub>2</sub>O) max. 0.01%

Water Soluble Titrable Acid (meq/g) max. 0.0003

**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8043.2500	2.5 l	4
8043.9200	200 l	

## 1-Hexanesulfonic Acid Sodium Salt

2175 'BAKER HPLC ANALYZED'

▶ CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>SO<sub>3</sub>Na

**M** = 188.22 g/mol

**CAS NO.** 2832-45-3

**EINECS** 220-601-3

**NC CODE** 2904 10 00

**For Ion-Pair Chromatography of Basic Compounds**

Assay (acidimetric) min. 98.0%

**UV Absorbance of 0.25M Solution:**

at 200 nm max. 0.2

at 210 nm max. 0.08

at 220 nm max. 0.06

at 230 nm max. 0.05

at 240 nm max. 0.05

at 250 nm max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
2175.0025	25 g Glass	

## L-Histidine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



**L(+)-Histidine**

'BAKER ANALYZED' Biochemical

1603

▶ NHCH:NCH:CCH2CH(NH2)COOH**M** = 155.16 g/mol**CAS NO.** 71-00-1**EINECS** 200-745-3**NC CODE** 2933 29 90

Assay (dried basis)	98.5-101.5%
Arsenic (As)	max. 0.0003%
Ash (sulfated)	max. 0.1%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.003%
Loss on Drying at 105°C	max. 0.2%
Specific Rotation [ $\alpha$ ] <sup>25</sup> (dried basis, c = 1 in 6N HCl)	+ 12.6° to + 14.0°

PRODUCT NO.	PACKING	CONT. BOX
1603.0025	25 g Glass	

**L-Histidine Monohydrochloride**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**Homidium bromide**

See Ethidium Bromide

**HPLC Columns**

See for detailed information section Chromatography products, page 448

**HPLC Solvents and Reagents**

See for detailed information section HPLC Solvents and Reagents, page 64

**Hyamine 1622**

0.004 mol/l / 'BAKER ANALYZED' / for determination of anionic tensides

7255

<b>CAS NO.</b> 121-54-0	Titer (mol/l)	0.0039-0.0041
<b>EINECS</b> 204-479-9		
<b>NC CODE</b> 2923 90 00		

PRODUCT NO.	PACKING	CONT. BOX
7255.1000	1 l	6
7255.2500	2.5 l	

Volumetric Solution, ready for use.

**HYDRA-POINT Buffer**

'BAKER ANALYZED' / Buffer for stabilizing pH during Karl Fischer titration

8899

<b>1 l</b> = 1.0 kg	Buffer capacity	min. 5 mmol acid/ml
<b>NC CODE</b> 3822 00 00		
<b>UN/ID NO.</b> 3286		
<b>ADR/RID</b> 3 FTC		
<b>IMDG</b> 3/I		
<b>R:</b> 11-23/24/25-34-39/23/24/25-63		
<b>S:</b> 16-26-36/37/39-45-7/9		

PRODUCT NO.	PACKING	CONT. BOX
8899.0500	500 ml	6
8899.1000	1 l	6

Contains: imidazole, sulfur dioxide, methanol.



highly flammable

toxic

**HYDRA-POINT Composite 2**

'BAKER ANALYZED' / Pyridine free one-component reagent for volumetric Karl Fischer titration

8891

<b>1 l</b> = 1.1 kg	<b>To be used with HYDRA-POINT Methanol dry product no. 8898</b>	
<b>NC CODE</b> 3822 00 00	Titer (mg H <sub>2</sub> O/ml) <sup>1)</sup>	min. 2.00
<b>UN/ID NO.</b> 2922		
<b>ADR/RID</b> 8 CT1		
<b>IMDG</b> 8/III		
<b>R:</b> 20-34-63		
<b>S:</b> 26-36/37/39-45		

PRODUCT NO.	PACKING	CONT. BOX
8891.1000	1 l	6
8891.2500	2.5 l	4

Contains: imidazole, iodine, sulfur dioxide.



corrosive

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## HYDRA-POINT Composite 5

**8890** 'BAKER ANALYZED' / Pyridine free one-component reagent for volumetric Karl Fischer titration

**1 l** = 1.2 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2922  
**ADR/RID** 8 CT1  
**IMDG** 8/III  
**R:** 20-34-63  
**S:** 26-36/37/39-45



corrosive

*To be used with HYDRA-POINT Methanol dry*  
**product no. 8898**  
 Titer (mg H<sub>2</sub>O/ml)<sup>1)</sup> min. 5.00  
 1) At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
8890.1000	1 l	6
8890.2500	2.5 l	4

Contains: imidazole, iodine, sulfur dioxide.

## HYDRA-POINT Composite 5K

**8892** 'BAKER ANALYZED' / Pyridine free one-component reagent for volumetric Karl Fischer titration of ketones

**NC CODE** 3822 00 00  
**UN/ID NO.** 1760  
**ADR/RID** 8 C9  
**IMDG** 8/III  
**R:** 20-34-63  
**S:** 26-36/37/39-45



corrosive

*To be used with HYDRA-POINT Methanol dry*  
**product no. 8898**  
 Titer (mg H<sub>2</sub>O/ml) min. 5.00

PRODUCT NO.	PACKING	CONT. BOX
8892.1000	1 l	6
8892.2500	2.5 l	4

Contains: imidazole, iodine, sulfur dioxide.

## HYDRA-POINT Coulometric An

**8862** 'BAKER ANALYZED' / Analyte for coulometric Karl Fischer determinations with diafragm.

**1 l** = 1.20 kg  
**FLASHPOINT** < 21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 3286  
**ADR/RID** 3 FTC  
**IMDG** 3/II  
**R:** 11-23/24/25-34-39-40  
**S:** 26-36/37/39-45



highly flammable



toxic

Suitability for coulometric Karl Fischer titration passes test

PRODUCT NO.	PACKING	CONT. BOX
8862.0500	500 ml	6

Contains: methanol, imidazole, sulphur dioxide, iodine, chloroform.

## HYDRA-POINT Coulometric Cat

**8863** 'BAKER ANALYZED' / Catholyte for coulometric Karl Fischer determinations with diafragm.

**1 l** = 0.98 kg  
**FLASHPOINT** < 21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 3286  
**ADR/RID** 3 FTC  
**IMDG** 3/II  
**R:** 11-23/24/25-34-39/23/24/25-40-48/23-59-63  
**S:** 26-36/37/39-45



dangerous for the environment



highly flammable



toxic

Suitability for coulometric Karl Fischer titration passes test

PRODUCT NO.	PACKING	CONT. BOX
8863.0025	25 ml	6

Contains: methanol, imidazole, sulphur dioxide, diethanolamine, tetrachloromethane.

*Innovation is principal to our business.*

### HYDRA-POINT Coulometric Gen

'BAKER ANALYZED' / Halogen free reagent for coulometric Karl Fischer determinations without diafragm.

8860

1 l = 0.98 kg  
**FLASHPOINT** < 21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 3286  
**ADR/RID** 3 FTC  
**IMDG** 3/II  
**R:** 11-23/24/25-34-39/23/24/25-63  
**S:** 26-36/37/39-45



Suitability for coulometric Karl Fischer titration passes test

PRODUCT NO.	PACKING	CONT. BOX
8860.0500	500 ml	6

Contains: methanol, 1-hexanol, imidazole, sulphur dioxide, iodide.

### HYDRA-POINT Coulometric Oven

'BAKER ANALYZED' / Halogen free reagent for coulometric Karl Fischer determinations without diafragm.

8861

1 l = 1.04 kg  
**FLASHPOINT** < 21 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 3286  
**ADR/RID** 3 FTC  
**IMDG** 3/II  
**R:** 11-23/24/25-34-39/23/24/25-63  
**S:** 26-36/37/39-45



Suitability for coulometric Karl Fischer titration passes test

PRODUCT NO.	PACKING	CONT. BOX
8861.0500	500 ml	6

Contains: methanol, imidazole, sulphur dioxide, iodine, propylene glycol.

### HYDRA-POINT Methanol Dry

'BAKER ANALYZED' / Dry methanol is a working medium for Karl Fischer titration

8898

► CH<sub>3</sub>OH

**M** = 32.04 g/mol  
**1 l** = 0.79 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 67-56-1  
**EINECS** 200-659-6  
**NC CODE** 3822 00 00  
**EC NO.** 603 001 00 0  
**UN/ID NO.** 1230  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7



*To be used with HYDRA-POINT Composite 2 product no. 8891 or HYDRA-POINT Composite 5 product no. 8890*  
 Water (H<sub>2</sub>O) max. 0.01%

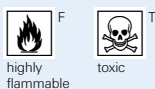
PRODUCT NO.	PACKING	CONT. BOX
8898.1000	1 l	6
8898.2500	2.5 l	4

### HYDRA-POINT Solvent G

'BAKER ANALYZED' / Pyridine free solvent for volumetric Karl Fischer titration

8855

1 l = 0.93 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-36/38-39/23/24/25-63  
**S:** 16-26-36/37/39-45-7/9



*To be used with HYDRA-POINT Titrant 2 product no. 8845 or HYDRA-POINT Titrant 5 product no. 8844*  
 Suitability for Karl Fischer titration passes test

PRODUCT NO.	PACKING	CONT. BOX
8855.1000	1 l	6
8855.2500	2.5 l	4

Contains: imidazole, sulfur dioxide, methanol.

# HYDRA

A  
B  
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G  
H  
I  
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K  
L  
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P  
Q  
R  
S  
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U  
V  
W  
X  
Y  
Z

## 8845 HYDRA-POINT Titrant 2 mg H<sub>2</sub>O/ml

'BAKER ANALYZED' / Titrant for volumetric Karl Fischer titration

**FLASHPOINT** 11 °C  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7/9



*To be used with HYDRA-POINT Solvent K product no. 8840 or HYDRA-POINT Solvent G product no. 8855*  
 Titer (mg H<sub>2</sub>O/ml)<sup>1)</sup> min. 2.00  
<sup>1)</sup> At time of lot release.

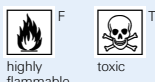
PRODUCT NO.	PACKING	CONT. BOX
8845.1000	1 l	6
8845.2500	2.5 l	4

Contains: methanol, iodine.

## 8844 HYDRA-POINT Titrant 5 mg H<sub>2</sub>O/ml

'BAKER ANALYZED' / Titrant for volumetric Karl Fischer titration

**FLASHPOINT** 11 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7/9



*To be used with HYDRA-POINT Solvent K product no. 8840 or HYDRA-POINT Solvent G product no. 8855*  
 Titer (mg H<sub>2</sub>O/ml)<sup>1)</sup> min. 5.00  
<sup>1)</sup> At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
8844.1000	1 l	6
8844.2500	2.5 l	4

Contains: methanol, iodine.

## 6010 Hydrobromic Acid

47-49% / 'BAKER ANALYZED' / ACS

▶ HBr  
**M** = 80.92 g/mol  
**1 l** = 1.49 kg  
**CAS NO.** 10035-10-6  
**EINECS** 233-113-0  
**NC CODE** 2811 19 10  
**EC NO.** 35 002 01 8  
**UN/ID NO.** 1788  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 34-37  
**S:** 26-45-7/9



*Exceeds ACS Specifications*

Assay	47.0-49.0%
Chloride (Cl)	max. 0.05%
Iodide (I)	max. 0.003%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Residue after Ignition	max. 0.002%
Sulfate and Sulfite (as SO <sub>4</sub> )	max. 0.003%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 0.5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 1
Selenium (Se)	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
6010.1000	1 l	
6010.9200	200 l	

Use J.T.Baker Ultrex II  
 and BAKER INSTRA-ANALYZED acids  
 for low level trace element analysis.

See chapter 3 of this catalogue for more details.

### Hydrochloric Acid

37-38% (max. 5 ppb Hg) / 'BAKER ANALYZED'

6081

▶ HCl

- M** = 36.46 g/mol
- 1 l** = 1.19 kg
- CAS NO.** 7647-01-0
- EINECS** 231-595-7
- NC CODE** 2806 10 00
- EC NO.** 17 002 01 0
- UN/ID NO.** 1789
- ADR/RID** 8 C 1
- IMDG** 8/II
- R:** 34-37
- S:** 26-45



corrosive

Assay	37-38%
Ammonium (NH <sub>4</sub> )	max. 3 ppm
Free Chlorine	max. 0.5 ppm
Mercury (Hg)	max. 5 ppb
Residue after Ignition	max. 5 ppm
Sulfate (SO <sub>4</sub> )	max. 1 ppm
Sulfite (SO <sub>3</sub> )	max. 2 ppm

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.1
Chromium (Cr)	max. 0.05
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.1
Iron (Fe)	max. 0.05
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.05
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.05
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.05
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.05
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.5
Zirconium (Zr)	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
6081.1000	1 l	6
6081.2500	2.5 l	4
6081.2500PE	2.5 l HDPE	4
6081.9025	25 l	
6081.9200	200 l	

A  
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P  
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V  
W  
X  
Y  
Z

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

## Hydrochloric Acid

6011 37% / 'BAKER ANALYZED' / ACS

▶ HCl

**M** = 36.46 g/mol

**1 l** = 1.19 kg

**CAS NO.** 7647-01-0

**EINECS** 231-595-7

**NC CODE** 2806 10 00

**EC NO.** 17 002 01 0

**UN/ID NO.** 1789

**ADR/RID** 8 C1

**IMDG** 8/II

**R:** 34-37

**S:** 26-45



corrosive

**Meets ACS Specifications. Meets Reagent**

**Specifications for testing USP/NF monographs**

Assay	36.5-38.0%
Appearance	passes test
Bromide (Br)	max. 0.005%
Color (APHA)	max. 10
Extractable Organic Substances	max. 5 ppm
Free Chlorine	max. 1 ppm
Residue after Ignition	max. 3 ppm
Specific Gravity at 60°/60°F	1.185-1.192

**Trace Impurities (in ppb):**

Aluminium (Al)	max. 100
Arsenic and Antimony (as As)	max. 5
Boron (B)	max. 50
Calcium (Ca)	max. 200
Chromium (Cr)	max. 100
Copper (Cu)	max. 100
Gold (Au)	max. 100
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 50
Magnesium (Mg)	max. 300
Manganese (Mn)	max. 300
Mercury (Hg)	max. 5
Nickel (Ni)	max. 100
Potassium (K)	max. 300
Sodium (Na)	max. 300
Tin (Sn)	max. 300
Titanium (Ti)	max. 300
Zinc (Zn)	max. 100

**Trace Impurities (in ppm):**

Ammonium (NH <sub>4</sub> )	max. 3
Phosphate (as PO <sub>4</sub> )	max. 1
Sulfate (SO <sub>4</sub> )	max. 0.5
Sulfite (SO <sub>3</sub> )	max. 0.8

PRODUCT NO.	PACKING	CONT. BOX
6011.0500	500 ml	6

### ▶ Hydrochloric Acid 37% MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

*The J.T.Baker CYCLE-TAINER  
High Purity Solvent Delivery System,  
preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

## Hydrochloric Acid

36.5-38% / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis / ACS

9530

▶ HCl

**M** = 36.46 g/mol  
**1 l** = 1.19 kg  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**EC NO.** 17 002 01 0  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 34-37  
**S:** 26-45



corrosive

### Meets ACS Specifications

Assay (by acid-base titration)	36.5-38.0%
Appearance	passes test
Bromide (Br)	max. 0.005%
Color (APHA)	max. 10
Extractable Organic Substances	max. 5 ppm
Free Chlorine	max. 0.5 ppm
Residue after Ignition	max. 3 ppm
Specific Gravity at 60°/60°F	1.185-1.192

### Trace Impurities (in ppb):

Aluminium (Al)	max. 10
Arsenic and Antimony (as As)	max. 5
Barium (Ba)	max. 1
Beryllium (Be)	max. 1
Bismuth (Bi)	max. 10
Boron (B)	max. 20
Cadmium (Cd)	max. 1
Calcium (Ca)	max. 50
Chromium (Cr)	max. 1
Cobalt (Co)	max. 1
Copper (Cu)	max. 1
Gallium (Ga)	max. 1
Germanium (Ge)	max. 3
Gold (Au)	max. 4
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 15
Lead (Pb)	max. 1
Lithium (Li)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 1
Mercury (Hg)	max. 0.5
Molybdenum (Mo)	max. 10
Nickel (Ni)	max. 4
Niobium (Nb)	max. 1
Potassium (K)	max. 9
Selenium (Se)	act. value reported
Silicon (Si)	max. 100
Silver (Ag)	max. 1
Sodium (Na)	max. 100
Strontium (Sr)	max. 1
Tantalum (Ta)	max. 1

Thallium (Tl)	max. 5
Tin (Sn)	max. 5
Titanium (Ti)	max. 1
Vanadium (V)	max. 1
Zinc (Zn)	max. 5
Zirconium (Zr)	max. 1

### Trace Impurities (in ppm):

Ammonium (NH <sub>4</sub> )	max. 3
Phosphate (PO <sub>4</sub> )	max. 0.05
Sulfate (SO <sub>4</sub> )	max. 0.5
Sulfite (SO <sub>3</sub> )	max. 0.8

PRODUCT NO.	PACKING	CONT. BOX
9530.0500	500 ml	6
9530.2500	2.5 l	4

## Hydrochloric Acid

35-39% / 'BAKER'

6012

▶ HCl

**M** = 36.46 g/mol  
**1 l** = 1.19 kg  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**EC NO.** 17 002 01 0  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 34-37  
**S:** 26-45



corrosive

Assay	35.0-39.0%
Appearance of solution	passes test
Free Chlorine	max. 4 ppm
Heavy Metals (as Pb)	max. 2 ppm
Identification	passes test
Residue after Evaporation	max. 0.01%
Sulfates (as SO <sub>4</sub> )	max. 20 ppm

PRODUCT NO.	PACKING	CONT. BOX
6012.1000	1 l	
6012.2500	2.5 l	4
6012.5000	5 l	4
6012.9025	25 l	

A  
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C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
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O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Hydrochloric Acid

6900 33-36% / ULTREX II Ultrapure Reagent

▶ HCl

**M** = 36.46 g/mol

**1 l** = 1.19 kg

**CAS NO.** 7647-01-0

**EINECS** 231-595-7

**NC CODE** 2806 10 00

**EC NO.** 17 002 01 0

**UN/ID NO.** 1789

**ADR/RID** 8 C1

**IMDG** 8/II

**R:** 34-37

**S:** 26-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

Assay 33-36% (w/w)

#### Trace Impurities (in ppt) (µg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 20
Arsenic (As)	max. 50
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 100
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 20
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Gold (Au)	max. 100
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50
Niobium (Nb)	max. 1
Palladium (Pd)	act. value reported
Platinum (Pt)	act. value reported
Potassium (K)	max. 10

Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 10
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 20
Titanium (Ti)	max. 20
Tungsten (W)	max. 10
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6900.0500	500 ml Fluoropolymer, pre-leached	
6900.1000	1 l Fluoropolymer, pre-leached	
6900.2000	2 l Fluoropolymer, pre-leached	

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*



### Hydrochloric Acid

32% / 'BAKER ANALYZED'

6070

▶ HCl

- M** = 36.46 g/mol
- 1 l** = 1.16 kg
- CAS NO.** 7647-01-0
- EINECS** 231-595-7
- NC CODE** 2806 10 00
- EC NO.** 17 002 01 0
- UN/ID NO.** 1789
- ADR/RID** 8 C 1
- IMDG** 8/II
- R:** 34-37
- S:** 26-45



corrosive

Assay	min. 32%
Ammonium (NH <sub>4</sub> )	max. 1 ppm
Free Chlorine	max. 0.5 ppm
Residue after Ignition	max. 5 ppm
Sulfate (SO <sub>4</sub> )	max. 1 ppm
Sulfite (SO <sub>3</sub> )	max. 2 ppm

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Arsenic (As)	max. 0.1
Barium (Ba)	max. 0.1
Beryllium (Be)	max. 0.1
Cadmium (Cd)	max. 0.1
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.1
Copper (Cu)	max. 0.1
Germanium (Ge)	max. 0.1
Iron (Fe)	max. 0.5
Lead (Pb)	max. 0.1
Lithium (Li)	max. 0.1
Magnesium (Mg)	max. 0.5
Manganese (Mn)	max. 0.1
Molybdenum (Mo)	max. 0.1
Nickel (Ni)	max. 0.1
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.1
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.1
Thallium (Tl)	max. 0.1
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.1
Zinc (Zn)	max. 0.5
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6070.1000	1 l	
6070.2500	2.5 l	4
6070.9025	25 l	
6070.9200	200 l	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

*Use J.T.Baker Ultrex II and BAKER INSTRA-ANALYZED acids for low level trace element analysis.*

*See chapter 3 of this catalogue for more details.*

## Hydrochloric Acid

9600 30% / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis

▶ HCl

**M** = 36.46 g/mol

**1 l** = 1.19 kg

**CAS NO.** 7647-01-0

**EINECS** 231-595-7

**NC CODE** 2806 10 00

**EC NO.** 17 002 01 0

**UN/ID NO.** 1789

**ADR/RID** 8 C1

**IMDG** 8/II

**R:** 34-37

**S:** 26-45



corrosive

### Actual lot analysis at time of lot release

Assay	29-31%
Color	max. 10 Hazen

### Trace Impurities:

Aluminium (Al)	max. 1 ppb
Ammonium (NH <sub>4</sub> )	max. 0.5 ppm
Antimony (Sb)	max. 1 ppb
Arsenic (As)	max. 1 ppb
Barium (Ba)	max. 1 ppb
Beryllium (Be)	max. 1 ppb
Bismuth (Bi)	max. 1 ppb
Boron (B)	max. 1 ppb
Bromide (Br)	max. 10 ppm
Cadmium (Cd)	max. 1 ppb
Calcium (Ca)	max. 1 ppb
Chromium (Cr)	max. 1 ppb
Cobalt (Co)	max. 1 ppb
Copper (Cu)	max. 1 ppb
Free Chlorine	max. 0.5 ppm
Gallium (Ga)	max. 1 ppb
Germanium (Ge)	max. 1 ppb
Gold (Au)	max. 1 ppb
Indium (In)	max. 1 ppb
Iron (Fe)	max. 1 ppb
Lead (Pb)	max. 1 ppb
Lithium (Li)	max. 1 ppb
Magnesium (Mg)	max. 1 ppb
Manganese (Mn)	max. 1 ppb
Mercury (Hg)	max. 1 ppb
Molybdenum (Mo)	max. 1 ppb
Nickel (Ni)	max. 1 ppb
Potassium (K)	max. 1 ppb
Selenium (Se)	max. 1 ppb
Silver (Ag)	max. 1 ppb
Sodium (Na)	max. 1 ppb
Strontium (Sr)	max. 1 ppb
Thallium (Tl)	max. 1 ppb
Thorium (Th)	max. 1 ppb
Tin (Sn)	max. 1 ppb
Titanium (Ti)	max. 1 ppb
Total Phosphorus	max. 0.01 ppm

Total Sulfur	max. 0.3 ppm
Uranium (U)	max. 1 ppb
Vanadium (V)	max. 1 ppb
Zinc (Zn)	max. 1 ppb
Zirconium (Zr)	max. 1 ppb

PRODUCT NO.	PACKING	CONT. BOX
9600.1000PE	1 l HDPE	6
HDPE bottle with dosing cap.		

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

### Hydrochloric Acid

25% / 'BAKER ANALYZED'

6167

▶ HCl

**M** = 36.46 g/mol  
**1 l** = 1.12 kg  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**EC NO.** 17 002 01 0  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 34-37  
**S:** 26-45



corrosive

Assay	min. 25%
Ammonium (NH <sub>4</sub> )	max. 3 ppm
Free Chlorine	max. 0.5 ppm
Residue after Ignition	max. 5 ppm
Sulfate (SO <sub>4</sub> )	max. 1 ppm
Sulfite (SO <sub>3</sub> )	max. 2 ppm

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Arsenic (As)	max. 0.1
Barium (Ba)	max. 0.1
Beryllium (Be)	max. 0.1
Cadmium (Cd)	max. 0.1
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.1
Copper (Cu)	max. 0.1
Germanium (Ge)	max. 0.1
Iron (Fe)	max. 0.5
Lead (Pb)	max. 0.1
Lithium (Li)	max. 0.1
Magnesium (Mg)	max. 0.5
Manganese (Mn)	max. 0.1
Molybdenum (Mo)	max. 0.1
Nickel (Ni)	max. 0.1
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.1
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.1
Thallium (Tl)	max. 0.1
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.1
Zinc (Zn)	max. 0.5
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6167.2500	2.5 l	
6167.9025	25 l	

### Hydrochloric Acid 18.5% VLSI

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Hydrochloric Acid

18% / 'BAKER'

7655

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 36/37/38  
**S:** 26-45



irritant

Assay	18-19%
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PRODUCT NO.	PACKING	CONT. BOX
7655.1000PE	1 l HDPE	6

Find more Chromatography information at [www.jtbaker.com/chromatography](http://www.jtbaker.com/chromatography)

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## Hydrochloric Acid

7219 10% / 'BAKER'

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**EC NO.** 17 002 01 0  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/III  
**R:** 36/37/38  
**S:** 26-45



Assay	9.5 - 10.5%
Appearance	passes test
Free Chlorine	max. 1 ppm
Heavy Metals (as Pb)	max. 2 ppm
Identification	passes test
Residue after Evaporation	max. 0.01%
Sulfates (as SO <sub>4</sub> )	max. 5 ppm

PRODUCT NO.	PACKING	CONT. BOX
7219.9010	10 l Polycube	
7219.9060	60 l	

## Hydrochloric Acid

7212 3.57 mol/l, 1/0.28 mol/l / 'BAKER ANALYZED'

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 36/37/38  
**S:** 26-45



Titer (mol/l)	3.55-3.59
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PRODUCT NO.	PACKING	CONT. BOX
7212.9010	10 l Polycube	

Volumetric Solution, ready for use.

## Hydrochloric Acid

7230 2 mol/l / 'BAKER ANALYZED'

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00

Titer (mol/l)	1.99-2.01
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PRODUCT NO.	PACKING	CONT. BOX
7230.1000	1 l	6

Volumetric Solution, ready for use.

## Hydrochloric Acid

7088 1 mol/l / 'BAKER ANALYZED'

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00

Titer (mol/l)	0.997-1.003
<b>Trace Impurities (in ppm):</b>	
Ammonium (NH <sub>4</sub> )	max. 3
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.1
Sulfate (SO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7088.1000	1 l	6
7088.9010	10 l Polycube	
7088.9020	20 l Polycube	

Volumetric Solution, ready for use.  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Hydrochloric Acid

7111 0.5 mol/l / 'BAKER ANALYZED'

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00

Titer (mol/l)	0.4975-0.5025
<b>Trace Impurities (in ppm):</b>	
Ammonium (NH <sub>4</sub> )	max. 3
Heavy Metals (as Pb)	max. 0.5
Iron (Fe)	max. 0.1
Sulfate (SO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7111.1000	1 l	6
7111.9010	10 l Polycube	
7111.9020	20 l Polycube	

Volumetric Solution, ready for use.  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Hydrochloric Acid

0.357 mol/l, 13.021 g HCl/l, 1/2.8 N / 'BAKER ANALYZED'

7477

▶ HCl	Titer (mol/l)	0.355-0.359	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 36.46 g/mol			7477.9010	10 l Polycube	
<b>CAS NO.</b> 7647-01-0					
<b>EINECS</b> 231-595-7					
<b>NC CODE</b> 2806 10 00					
<i>Volumetric Solution, ready for use.</i>					

## Hydrochloric Acid

0.2 mol/l / 'BAKER ANALYZED'

7651

▶ HCl	Titer (mol/l)	0.1990-0.2010	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 36.46 g/mol			7651.9010	10 l	
<b>CAS NO.</b> 7647-01-0					
<b>EINECS</b> 231-595-7					
<b>NC CODE</b> 2806 10 00					
<i>Volumetric Solution, ready for use.</i>					

## Hydrochloric Acid

0.1 mol/l / 'BAKER ANALYZED'

7038

▶ HCl	Titer (mol/l)	0.0997-0.1003	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 36.46 g/mol			7038.1000	1 l	6
<b>CAS NO.</b> 7647-01-0			7038.2500	2.5 l	4
<b>EINECS</b> 231-595-7			7038.9010	10 l Polycube	
<b>NC CODE</b> 2806 10 00			7038.9020P	20 l Polycube	
<i>Volumetric Solution, ready for use.</i>					

## Hydrochloric Acid

0.0357 mol/l, 1/28 mol/l / 'BAKER ANALYZED'

7211

▶ HCl	Titer (mol/l)	0.0350 - 0.0370	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 36.46 g/mol			7211.9010	10 l Polycube	
<b>CAS NO.</b> 7647-01-0			7211.9020	20 l Polycube	
<b>EINECS</b> 231-595-7					
<b>NC CODE</b> 2806 10 00					
<i>Volumetric Solution, ready for use.</i>					

## Hydrochloric Acid

0.01 mol/l / 'BAKER ANALYZED'

7493

▶ HCl	Titer (mol/l)	0.0095-0.0105	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>CAS NO.</b> 7647-01-0			7493.9020	20 l Polycube	
<b>EINECS</b> 231-595-7					
<b>NC CODE</b> 2806 10 00					
<i>Volumetric Solution, ready for use.</i>					
Each lot of this product is standardized potentiometrically against NIST traceable reference standard.					

## Hydrochloric Acid

1 mol/l / 1 equiv. = 36.46g; 1N / DILUT-IT

4657

▶ HCl			<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 36.46 g/mol			4657	1 amp.	6
<b>CAS NO.</b> 7647-01-0					
<b>EINECS</b> 231-595-7					
<b>NC CODE</b> 2806 10 00					
<b>UN/ID NO.</b> 1789					
<b>ADR/RID</b> 8 C1					
<b>IMDG</b> 8/III					
<b>R:</b> 36/37/38					
<b>S:</b> 26-45					
<i>Volumetric Concentrate, for dilution to 1 l.</i>					



irritant

## Hydrochloric Acid

4654 0.5 mol/l / 1/2 equiv. = 18.23g; 0.5 N / DILUT-IT

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 36/37/38  
**S:** 26-45



PRODUCT NO.	PACKING	CONT. BOX
4654	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Hydrochloric Acid

4655 0.1 mol/l / DILUT-IT

▶ HCl

**M** = 36.46 g/mol  
**CAS NO.** 7647-01-0  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/III

PRODUCT NO.	PACKING	CONT. BOX
4655	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Hydrochloric Acid

4867 0.01 mol/l / DILUT-IT

▶ HCl

**M** = 36.46 g/mol  
**EINECS** 231-595-7  
**NC CODE** 2806 10 00

PRODUCT NO.	PACKING	CONT. BOX
4867	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## ▶ Hydrochloric Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ▶ Hydrochloric Acid Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ▶ Hydrocortisone, Micronized

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

*The J.T.Baker CYCLE-TAINER  
 High Purity Solvent Delivery System,  
 preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

## Hydrofluoric Acid

49% / ULTREX II Ultrapure Reagent

6904

▶ HF

**M** = 20.01 g/mol**1 l** = 1.16 kg**CAS NO.** 7664-39-3**EINECS** 231-634-8**NC CODE** 2811 11 00**EC NO.** 9 003 00 1**UN/ID NO.** 1790**ADR/RID** 8 CT1**IMDG** 8/II**R:** 26/27/28-35**S:** 26-36/37-45-7/9

corrosive



very toxic

### Certificate Provided Reporting Actual Lot Analysis

Assay 47-51% (w/w)

#### Trace Impurities (in ppt) (pg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 20
Arsenic (As)	max. 50
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 100
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 20
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 20
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50
Niobium (Nb)	max. 10
Palladium (Pd)	max. 20
Platinum (Pt)	max. 20

Potassium (K)	max. 10
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 20
Rubidium (Rb)	max. 20
Ruthenium (Ru)	max. 20
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 20
Titanium (Ti)	max. 50
Tungsten (W)	max. 20
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6904.0500	500 ml Fluoropolymer, pre-leached	
6904.1000	1 l Fluoropolymer, pre-leached	

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Hydrofluoric Acid

9563 48-51% / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis / ACS

▶ HF

**M** = 20.01 g/mol

**1 l** = 1.16 kg

**CAS NO.** 7664-39-3

**EINECS** 231-634-8

**NC CODE** 2811 11 00

**EC NO.** 9 003 00 1

**UN/ID NO.** 1790

**ADR/RID** 8 CT1

**IMDG** 8/II

**R:** 26/27/28-35

**S:** 26-36/37-45-7/9



corrosive



very toxic

### Meets ACS Specifications. Meets Reagent

#### Specifications for testing USP/NF monographs

Assay (acidimetric)	48.0-51.0%
Color (APHA)	max. 10
Fluorosilicic Acid (H <sub>2</sub> SiF <sub>6</sub> )	max. 0.010%
Residue after Ignition	max. 5 ppm

#### Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Arsenic and Antimony (as As)	max. 30
Barium (Ba)	max. 50
Beryllium (Be)	max. 20
Bismuth (Bi)	max. 100
Boron (B)	max. 50
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 50
Chromium (Cr)	max. 10
Cobalt (Co)	max. 5
Copper (Cu)	max. 5
Gallium (Ga)	max. 20
Germanium (Ge)	max. 50
Gold (Au)	max. 10
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 20
Lithium (Li)	max. 20
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 50
Mercury (Hg)	max. 10
Molybdenum (Mo)	max. 50
Nickel (Ni)	max. 10
Potassium (K)	max. 100
Silver (Ag)	max. 20
Sodium (Na)	max. 200
Strontium (Sr)	max. 20
Tantalum (Ta)	max. 100
Tin (Sn)	max. 50
Titanium (Ti)	max. 50
Vanadium (V)	max. 50
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 20

#### Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Nitrate (NO <sub>3</sub> )	max. 3
Phosphate (PO <sub>4</sub> )	max. 1
Sulfate and Sulfite (as SO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9563.0500	500 ml	

### ▶ Hydrofluoric Acid 49% CMOS, Finyte, Finyte-1 Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

*Use J.T.Baker Ultrex II  
and BAKER INSTRA-ANALYZED acids  
for low level trace element analysis.*

*See chapter 3 of this catalogue for more details.*



**Hydrofluoric Acid**

48% / 'BAKER ANALYZED' / ACS

6013

▶ HF

- M** = 20.01 g/mol
- 1 l** = 1.16 kg
- CAS NO.** 7664-39-3
- EINECS** 231-634-8
- NC CODE** 2811 11 00
- EC NO.** 9 003 00 1
- UN/ID NO.** 1790
- ADR/RID** 8 CT1
- IMDG** 8/II
- R:** 26/27/28-35
- S:** 26-36/37-45-7/9



**Exceeds ACS Specifications**

Assay	min. 48.0-51.0%
Chloride (Cl)	max. 5 ppm
Fluorosilicic Acid (H <sub>2</sub> SiF <sub>6</sub> )	max. 0.01%
Heavy Metals (as Pb)	max. 0.5 ppm
Phosphate (PO <sub>4</sub> )	max. 1 ppm
Residue after Ignition	max. 5 ppm
Sulfate and Sulfite (as SO <sub>4</sub> )	max. 5 ppm

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.05
Arsenic and Antimony (as As)	max. 0.05
Barium (Ba)	max 0.1
Beryllium (Be)	max 0.01
Cadmium (Cd)	max 0.02
Calcium (Ca)	max 0.5
Chromium (Cr)	max 0.1
Cobalt (Co)	max 0.01
Copper (Cu)	max 0.01
Iron (Fe)	max 0.1
Lead (Pb)	max 0.05
Lithium (Li)	max 0.02
Magnesium (Mg)	max 0.1
Manganese (Mn)	max 0.01
Molybdenum (Mo)	max 0.02
Nickel (Ni)	max 0.05
Potassium (K)	max 0.1
Silver (Ag)	max 0.02
Sodium (Na)	max 0.5
Strontium (Sr)	max 0.02
Thallium (Tl)	max 0.05
Titanium (Ti)	max 0.1
Vanadium (V)	max 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6013.1000	1 l	6

**Hydrofluoric Acid 40% VLSI**

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

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## Hydrofluoric Acid

6079 38% / 'BAKER ANALYZED'

▶ HF

**M** = 20.01 g/mol  
**1 l** = 1.13 kg  
**CAS NO.** 7664-39-3  
**EINECS** 231-634-8  
**NC CODE** 2811 11 00  
**EC NO.** 9 003 00 1  
**UN/ID NO.** 1790  
**ADR/RID** 8 CT1  
**IMDG** 8/II  
**R:** 26/27/28-35  
**S:** 26-36/37-45-7/9



Assay 38-40%  
 Chloride (Cl) max. 5 ppm  
 Fluorosilicic Acid (H<sub>2</sub>SiF<sub>6</sub>) max. 0.005%  
 Phosphate (PO<sub>4</sub>) max. 2 ppm  
 Residue after Ignition max. 5 ppm  
 Sulfate and Sulfite (as SO<sub>4</sub>) max. 5 ppm

### Trace Impurities (in ppm):

Aluminium (Al) max. 0.05  
 Arsenic and Antimony (as As) max. 0.05  
 Barium (Ba) max. 0.1  
 Beryllium (Be) max. 0.01  
 Cadmium (Cd) max. 0.02  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.1  
 Cobalt (Co) max. 0.01  
 Copper (Cu) max. 0.01  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.05  
 Lithium (Li) max. 0.02  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.01  
 Molybdenum (Mo) max. 0.02  
 Nickel (Ni) max. 0.05  
 Potassium (K) max. 0.1  
 Silver (Ag) max. 0.02  
 Sodium (Na) max. 0.5  
 Strontium (Sr) max. 0.02  
 Thallium (Tl) max. 0.05  
 Titanium (Ti) max. 0.1  
 Vanadium (V) max. 0.01  
 Zinc (Zn) max. 0.05  
 Zirconium (Zr) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6079.1000	1 l	6
6079.2500	2.5 l	4

## ▶ Hydrofluoric Acid 25% VLSI

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## ▶ Hydrofluoric Acid 5% VLSI

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Hydrogen Peroxide

7048 35% / 'BAKER'

▶ H<sub>2</sub>O<sub>2</sub>

**M** = 34.01 g/mol  
**1 l** = 1.13 kg  
**CAS NO.** 7722-84-1  
**EINECS** 231-765-0  
**NC CODE** 2847 00 00  
**EC NO.** 8 003 00 9  
**UN/ID NO.** 2014  
**ADR/RID** 5.1 OC1  
**IMDG** 5.1/II  
**R:** 22-37/38-41  
**S:** 26-36/37/39



Assay<sup>1)</sup> min. 35%  
<sup>1)</sup> At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
7048.1000	1 l	6
7048.2500PE	2.5 l HDPE	4
7048.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Hydrogen Peroxide

30% / ULTREX II Ultrapure Reagent

5155

▶ H<sub>2</sub>O<sub>2</sub>**M** = 34.01 g/mol**1 l** = 1.11 kg**CAS NO.** 7722-84-1**EINECS** 231-765-0**NC CODE** 2847 00 00**EC NO.** 8 003 00 9**UN/ID NO.** 2014**ADR/RID** 5.1 OC1**IMDG** 5.1/II**R:** 22-41**S:** 26-36/39**Meets ACS Ultratrace Specifications**

Assay 25.0-35.0%

Appearance passes test

Free acid (µeq/g) max. 0.5

**Trace Impurities (in ppm):**Ammonium (NH<sub>4</sub>) max. 5

Chloride (Cl) max. 1

Nitrate (NO<sub>3</sub>) max. 2Phosphate (PO<sub>4</sub>) max. 2Sulfate (SO<sub>4</sub>) max. 5**Trace Impurities (in ppt):**

Aluminium (Al) max. 100

Antimony (Sb) max. 1000

Arsenic (As) max. 1000

Barium (Ba) max. 50

Beryllium (Be) max. 1000

Bismuth (Bi) max. 1000

Boron (B) max. 1000

Cadmium (Cd) max. 50

Calcium (Ca) max. 100

Chromium (Cr) max. 50

Cobalt (Co) max. 50

Copper (Cu) max. 50

Gallium (Ga) max. 1000

Iron (Fe) max. 100

Lead (Pb) max. 100

Lithium (Li) max. 50

Magnesium (Mg) max. 50

Manganese (Mn) max. 50

Mercury (Hg) max. 1000

Molybdenum (Mo) max. 1000

Nickel (Ni) max. 50

Potassium (K) max. 100

Silicon (Si) max. 10000

Silver (Ag) max. 50

Sodium (Na) max. 100

Strontium (Sr) max. 50

Tin (Sn) max. 50

Titanium (Ti) max. 1000

Vanadium (V) max. 1000

Zinc (Zn) max. 50

Zirconium (Zr) max. 1000

PRODUCT NO.	PACKING	CONT. BOX
5155.0450	450 ml PE	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

*The J.T.Baker CYCLE-TAINER  
High Purity Solvent Delivery System,  
preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

## Hydrogen Peroxide

7047 30% / 'BAKER ANALYZED' / ACS

▶ H<sub>2</sub>O<sub>2</sub>

**M** = 34.01 g/mol

**1 l** = 1.11 kg

**CAS NO.** 7722-84-1

**EINECS** 231-765-0

**NC CODE** 2847 00 00

**EC NO.** 8 003 00 9

**UN/ID NO.** 2014

**ADR/RID** 5.1 OC1

**IMDG** 5.1/II

**R:** 22-41

**S:** 26-36/39



### Exceeds ACS Specifications

Assay <sup>1)</sup>	30.0-32.0%
Ammonium (NH <sub>4</sub> )	max. 5 ppm
Chloride (Cl)	max. 1 ppm
Color (APHA)	max. 10
Heavy Metals (as Pb)	max. 1 ppm
Nitrate (NO <sub>3</sub> )	max. 2 ppm
Phosphate (PO <sub>4</sub> )	max. 2 ppm
Residue after Evaporation	max. 0.002%
Sulfate (SO <sub>4</sub> )	max. 2 ppm
Titration Acid (meq/g)	max. 0.0006

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

<sup>1)</sup> At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
7047.0250	250 ml	
7047.1000	1 l	6
7047.2500PE	2.5 l HDPE	

### ▶ Hydrogen Peroxide 30% CMOS, Finyte, Finyte-1, Ultryte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### ▶ Hydrogen Peroxide 30% MOS, VLSI, SLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### ▶ Hydrogen Peroxide Solution

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

*Mallinckrodt Baker's Microelectronic Materials are Engineered for the future™.*

See chapter 5 of this catalogue or visit us at [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Hydroquinone

'BAKER'

1115

<p>▶ <math>C_6H_4(OH)_2</math></p> <p><b>M</b> = 110.11 g/mol</p> <p><b>FLASHPOINT</b> 165 °C</p> <p><b>CAS NO.</b> 123-31-9</p> <p><b>EINECS</b> 204-617-8</p> <p><b>NC CODE</b> 2907 22 00</p> <p><b>EC NO.</b> 604 005 00 4</p> <p><b>UN/ID NO.</b> 2662</p> <p><b>ADR/RID</b> 6.1 T2</p> <p><b>IMDG</b> 6.1/III</p> <p><b>R:</b> 22-40-41-43-50</p> <p><b>S:</b> 26-36/37/39-61</p>	Heavy Metals (as Pb)	max. 0.001%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Melting Point	172-174°C			
	Residue after Ignition	max. 0.05%	1115.0250	250 g	
	dangerous for the environment	harmful			

### Hydroxyacetic Acid

See Glycollic Acid

### o-Hydroxybenzaldehyde

See Salicylaldehyde

### (2-Hydroxyethyl)mercaptan

See 2-Mercaptoethanol

### Hydroxylamine Hydrochloride

See Hydroxylammonium Chloride

### Hydroxylammonium Chloride

(max. 0.05 ppm Hg) / 'BAKER ANALYZED' / ACS

1116

<p>▶ <math>HONH_2Cl</math></p> <p><b>M</b> = 69.49 g/mol</p> <p><b>CAS NO.</b> 5470-11-1</p> <p><b>EINECS</b> 226-798-2</p> <p><b>NC CODE</b> 2825 10 00</p> <p><b>EC NO.</b> 612 123 00 2</p> <p><b>UN/ID NO.</b> 3260</p> <p><b>ADR/RID</b> 8 C2</p> <p><b>IMDG</b> 8/III</p> <p><b>R:</b> 22-36/38-43-48/22-50</p> <p><b>S:</b> 22-24-37-61</p>	<b>Exceeds ACS Specifications</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay	min. 99.0%			
	Ammonium ( $NH_4$ )	max. 0.1%	1116.9050	50 kg	
	Clarity of alcohol solution	passes test			
	Residue after Ignition	max. 0.01%			
	Sulfur Compounds (as $SO_4$ )	max. 0.005%			
	Titration Free Acid	max. 0.25 meq/g			
	<b>Trace Impurities (in ppm):</b>				
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			
Mercury (Hg)	max. 0.05				
dangerous for the environment	harmful				

### Hydroxylammonium Chloride

'BAKER ANALYZED' / ACS

2195

<p>▶ <math>HONH_2Cl</math></p> <p><b>M</b> = 69.49 g/mol</p> <p><b>CAS NO.</b> 5470-11-1</p> <p><b>EINECS</b> 226-798-2</p> <p><b>NC CODE</b> 2825 10 00</p> <p><b>EC NO.</b> 612 123 00 2</p> <p><b>UN/ID NO.</b> 3260</p> <p><b>ADR/RID</b> 8 C2</p> <p><b>IMDG</b> 8/III</p> <p><b>R:</b> 22-36/38-43-48/22-50</p> <p><b>S:</b> 22-24-37-61</p>	<b>Exceeds ACS Specifications</b>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Assay	min. 99.0%			
	Ammonium ( $NH_4$ )	max. 0.1%	2195.0100	100 g	
	Clarity of alcohol solution	passes test	2195.0250	250 g	6
	Residue after Ignition	max. 0.01%	2195.1000	1 kg	
	Sulfur Compounds (as $SO_4$ )	max. 0.005%	2195.9050	50 kg	
	Titration Free Acid	max. 0.25 meq/g			
	<b>Trace Impurities (in ppm):</b>				
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			
dangerous for the environment	harmful				

## Hydroxylammonium Chloride

1521 'BAKER'

▶ HONH <sub>3</sub> Cl	Assay	min. 99%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
M = 69.49 g/mol			1521.9050	50 kg	
CAS NO. 5470-11-1					
EINECS 226-798-2					
NC CODE 2825 10 00					
EC NO. 612 123 00 2					
UN/ID NO. 3260					
ADR/RID 8 C2					
IMDG 8/III					
R: 22-36/38-43-48/22-50					
S: 22-24-37-61					
dangerous for the environment					

## ▶ 4-Hydroxy-4-Methyl-2-Pentanone M05 Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

6016 Hypophosphorous Acid  
50% / 'BAKER'

▶ H <sub>3</sub> PO <sub>2</sub>	Assay	49-52%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
M = 66.00 g/mol	Heavy Metals (as Pb)	max. 0.002%	6016.0500	500 ml	
11 = 1.25 kg	Identification	passes test			
CAS NO. 6303-21-5	Phosphate (PO <sub>4</sub> )	max. 0.01%			
EINECS 228-601-5					
NC CODE 2811 19 80					
UN/ID NO. 3264					
ADR/RID 8 C1					
IMDG 8/III					
R: 34					
S: 26-27-36/37/39-45					
corrosive					

## ▶ ICP CCV Solution I & II

See CCV Solution I & II

## ▶ ICP ICS Solution AB-1&AB-2

See ICS Solution AB-1 & AB-2

## ▶ ICP ICV Solution I & II

See ICV Solution I & II

## ▶ ICP Interference Check Standard I

See Interference Check Standard I

## ▶ ICP Interference Check Standard II

See Interference Check Standard II

## ▶ ICP Interference Check Standard IV

See Interference Check Standard IV

## ▶ ICP Mixed Calibration Standard III

See Mixed Calibration Standard III

## ▶ ICP Mixed Calibration Standard IV

See Mixed Calibration Standard IV

## ▶ ICP Mixed Calibration Standard V

See Mixed Calibration Standard V

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## ICP Primary Drinking Water Std I

See Primary Drinking Water Standard I

## ICP Trace Metal Standard I

See Trace Metal Standard I

## ICP Trace Metal Standard III

See Trace Metal Standard III

## ICP Water Standard I & II

See Water Standard I & II

## ICS Solution AB-1 & AB-2

Matrix I : 5% nitric acid - Matrix II: 20% HCl / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6119-01

NC CODE 3822 00 00

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

R: 34

S: 23-26-36/37/39-45



corrosive

Kit contains one bottle of each solution

Element Concentrations of Solution I (µg/ml):

Beryllium (Be)	50
Cadmium (Cd)	100
Cobalt (Co)	100
Copper (Cu)	50
Lead (Pb)	100
Manganese (Mn)	50
Nickel (Ni)	100
Silver (Ag)	100
Zinc (Zn)	100

Element Concentrations of Solution II (µg/ml):

Barium (Ba)	50
Chromium (Cr)	5
Vanadium (V)	50

PRODUCT

PACKING

CONT.

NO.

BOX

6119-01 100 ml x 2

For use in EPA Contract Laboratory Program (CLP).  
Traceable to NIST.

## ICV Solution I & II

Matrix I : 5% nitric acid - Matrix II: 20% HCl / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6103-01

NC CODE 3822 00 00

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

R: 34

S: 23-26-36/37/39-45



corrosive

Kit contains one bottle of each solution

Element Concentrations of Solution I (µg/ml):

Barium (Ba)	100
Beryllium (Be)	40
Cadmium (Cd)	50
Cobalt (Co)	100
Copper (Cu)	100
Iron (Fe)	100
Lead (Pb)	100
Manganese (Mn)	100
Nickel (Ni)	100
Silver (Ag)	20
Thallium (Tl)	100
Zinc (Zn)	100

Element Concentrations of Solution II (µg/ml):

Aluminium (Al)	100
Antimony (Sb)	100
Arsenic (As)	100
Calcium (Ca)	1000
Chromium (Cr)	100
Magnesium (Mg)	1000
Potassium (K)	1000
Selenium (Se)	100
Sodium (Na)	1000
Vanadium (V)	100

PRODUCT

PACKING

CONT.

NO.

BOX

6103-01 100 ml x 2

For use in EPA Contract Laboratory Program (CLP).  
Traceable to NIST.

## Imidazole

1747 'BAKER ANALYZED'

NHCH:NCH:CH

M = 68.08 g/mol

CAS NO. 288-32-4

EINECS 206-019-2

NC CODE 2933 29 90

UN/ID NO. 3263

ADR/RID 8 C8

IMDG 8/III

R: 22-34-63

S: 22-26-36/37/39-45



Assay	min. 99.5%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Melting Point	88-90°C
Residue after Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1747.0100	100 g	
1747.9010	10 kg	

## Immuno PBS

3058 20x concentrated / Histology

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
3058.9010	10 l Polycube	

Dilute 20 times before use.

## Interference Check Standard I

6011-01 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

NC CODE 3822 00 00

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

R: 36/38-45

S: 26-37-45-53



Elemental Concent (µg/ml):	
Arsenic (As)	1000
Barium (Ba)	300
Beryllium (Be)	100
Cadmium (Cd)	300
Chromium (Cr)	300
Cobalt (Co)	300
Copper (Cu)	300
Lead (Pb)	1000
Manganese (Mn)	200
Mercury (Hg)	50
Nickel (Ni)	300
Potassium (K)	20000
Selenium (Se)	500
Silver (Ag)	300
Thallium (Tl)	1000
Vanadium (V)	300
Zinc (Zn)	300

PRODUCT NO.	PACKING	CONT. BOX
6011-01	100 ml	

For use in EPA SW-846 Methods 6010 and 200.7.  
Traceable to NIST.

## Interference Check Standard II

6012-01 (Matrix: 5% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

UN/ID NO. 3264

ADR/RID 8 C1

IMDG 8/III

R: 34

S: 23-26-36/37/39-45



Elemental Concent (µg/ml):	
Boron (B)	500
Molybdenum (Mo)	300
Silicon (Si)	230
Titanium (Ti)	1000

PRODUCT NO.	PACKING	CONT. BOX
6012-01	100 ml	

For use in EPA SW-846 Methods 6010 and 200.7.  
Traceable to NIST.



## Interference Check Standard IV

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6014-01

NC CODE 3822 00 00  
 UN/ID NO. 3264  
 ADR/RID 8 C1  
 IMDG 8/III  
 R: 34  
 S: 23-26-36/37/39-45



corrosive

## Elemental Concent (µg/ml):

Aluminium (Al)	1200
Calcium (Ca)	6000
Iron (Fe)	5000
Magnesium (Mg)	3000
Sodium (Na)	1000

PRODUCT NO.	PACKING	CONT. BOX
6014-01	100 ml	

For use in EPA SW-846 Methods 6010 and 200.7.  
 Traceable to NIST.

## Iodide/Iodate

1/128 mol/l / DILUT-IT

4876

EINECS 231-659-4  
 NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4876	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Iodine

sublimed / 'BAKER ANALYZED' / ACS

1118

▶ I<sub>2</sub>

M = 253.81 g/mol  
 CAS NO. 7553-56-2  
 EINECS 231-442-4  
 NC CODE 2801 20 00  
 EC NO. 53 001 00 3  
 UN/ID NO. 1759  
 ADR/RID 8 C10  
 IMDG 8/III  
 R: 20/21-50  
 S: 23-25-61



dangerous for the environment



harmful

## Exceeds ACS Specifications

Assay	min. 99.8%
Chloride and Bromine (as Cl)	max. 0.003%
Non-volatile Matter	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1118.0100	100 g	6
1118.0250	250 g	6
1118.1000	1 kg	
1118.5000	5 kg	

## Iodine

'BAKER'

0132

▶ I<sub>2</sub>

M = 253.81 g/mol  
 CAS NO. 7553-56-2  
 EINECS 231-442-4  
 NC CODE 2801 20 00  
 EC NO. 53 001 00 3  
 UN/ID NO. 1759  
 ADR/RID 8 C10  
 IMDG 8/III  
 R: 20/21-50  
 S: 23-25-61



dangerous for the environment



harmful

Assay	99.5-100.5%
Bromides and Chlorides	max. 250 ppm
Identification	passes test
Non-volatile substances	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0132.9050	50 kg	

## Iodine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



# Iodin

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## 7577 Iodine Solution

0.5 mol/l 1N / 'BAKER ANALYZED'

**M** = 253.81 g/mol  
**1 l** = 1.26 kg  
**CAS NO.** 7553-56-2  
**EINECS** 231-441-9  
**NC CODE** 2801 20 00  
**R:** 20/21/22  
**S:** 26-36/37



Molarity (titration with Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) 0.5M ± 0.5%

PRODUCT NO.	PACKING	CONT. BOX
7577.1000	1 l	

Volumetric Solution, ready for use.

## 7463 Iodine Solution

0.1 mol IBr/l, 0.2N / 'BAKER ANALYZED' / According to Hanus

**FLASHPOINT** 40 °C  
**NC CODE** 2801 20 00  
**UN/ID NO.** 2789  
**ADR/RID** 8 CF1  
**IMDG** 8/II  
**R:** 10-35  
**S:** 26-36/37/39-45



Titer (N) 0.19-0.21

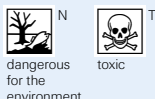
PRODUCT NO.	PACKING	CONT. BOX
7463.1000	1 l	

Volumetric Solution, ready for use.  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## 6124 Iodine Solution

0.1 mol ICl/l, 0.2N solution / 'BAKER' / According to Wijs

**1 l** = 1.21 kg  
**FLASHPOINT** 40 °C  
**UN/ID NO.** 2920  
**ADR/RID** 8 CF1  
**IMDG** 8/II  
**R:** 23/24/25-34-40-48/23-52/53-59  
**S:** 26-36/37/39-45



Titer (N) 0.2

PRODUCT NO.	PACKING	CONT. BOX
6124.1000	1 l	6

Keep in a cool place and tightly closed.

## 7210 Iodine Solution

0.05 mol/l 0.1N / 'BAKER ANALYZED'

**EINECS** 231-441-9  
**NC CODE** 2801 20 00

Titer (N) 0.0997-0.1003

PRODUCT NO.	PACKING	CONT. BOX
7210.1000	1 l	
7210.2500	2.5 l	

Volumetric Solution, ready for use.  
 Each lot of this product is standardized potentiometrically against Sodium Thiosulfate.

## 7128 Iodine Solution

0.05 mol/l 0.1N / 'BAKER ANALYZED'

**EINECS** 231-441-9  
**NC CODE** 2801 20 00

Titer (N) 0.0997-0.1003

PRODUCT NO.	PACKING	CONT. BOX
7128.1000	1 l	
7128.2500	2.5 l	

Volumetric Solution, ready for use.  
 Each lot of this product is standardized potentiometrically against Arsenic Trioxide (primary standard).

**Iodine (Iodine-Iodide)**

0.05 mol I<sub>2</sub>/l / DILUT-IT / 1/10 equiv. = 12.6905g; 0.1N

4662

▶ I<sub>2</sub>

**M** = 253.81 g/mol  
**CAS NO.** 7553-56-2  
**EINECS** 231-441-9  
**NC CODE** 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4662	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

**Iodine (Iodine-Iodide)**

0.005 mol I<sub>2</sub>/l / DILUT-IT / 1/100 equiv. = 1.269g; 0.01N

4660

▶ I<sub>2</sub>

**M** = 253.81 g/mol  
**CAS NO.** 7553-56-2  
**EINECS** 231-441-9  
**NC CODE** 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4660	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

**Ion Exchange Resin, Anion, IONAC NA-38**

'BAKER ANALYZED'

4601

**NC CODE** 3914 00 00

*(strong base, alkyl quaternary ammonium polystyrene copolymer)*

Moisture	55-65%
Total Exchange Capacity (wet volume), (meq/ml)	min. 0.9
<b>Mesh (Wet Screen Analysis):</b>	
On U.S. No. 16 Sieve	max. 5%
Thru U.S. No. 50 Sieve	max. 5%

PRODUCT NO.	PACKING	CONT. BOX
4601.0500	500 g	

OH<sup>-</sup> Form, Type I, Beads (16-50 Mesh).

**Ion exchange Resin, Cation, Dowex C-211**

'BAKER ANALYZED'

1099

**NC CODE** 3914 00 00

Identification	passes test
Total Exchange Capacity (wet volume), (meq/ml)	min. 1.8
<b>Mesh (Wet Screen Analysis):</b>	
On U.S. No. 16 Sieve	max. 5%
Thru U.S. No. 50 Sieve	max. 1%

PRODUCT NO.	PACKING	CONT. BOX
1099.0500	500 g	

H<sup>+</sup> Form, Spherical Beads (16-50 Mesh).

**Ion exchange Resin, Cation, Dowex HCR-W2**

'BAKER ANALYZED'

1100

**NC CODE** 3914 00 00

*(strong acid; styrene-DVB copolymer; nuclear sulfonic acid active group)*

Identification	passes test
Total Exchange Capacity (dry basis), meq/g	act. value reported
Total Exchange Capacity (wet volume), (meq/ml)	min. 1.9
<b>Mesh (Wet Screen Analysis):</b>	
On U.S. No. 16 Sieve	max. 5%
Thru U.S. No. 40 Sieve	max. 5%

PRODUCT NO.	PACKING	CONT. BOX
1100.0500	500 g	

Na<sup>+</sup> Form, Spherical Beads (16-40 Mesh).

**Ion exchange Resin, Mixed bed, IONAC NM-60**

'BAKER ANALYZED'

4631

**NC CODE** 3914 00 00

*(strong acid/strong base; sulfonated/alkyl quaternary ammonium polystyrenes)*

Column Capacity, kgr/cf	min. 12.0
Column Capacity, meq/ml	min. 0.55
Effluent Greater than 15 Megohms	min. 50%
Moisture	50-60%
<b>Mesh (Wet Screen Analysis):</b>	
On U.S. No. 16 Sieve	max. 5%
Thru U.S. No. 50 Sieve	max. 5%

PRODUCT NO.	PACKING	CONT. BOX
4631.0500	500 g	

H<sup>+</sup>/OH<sup>-</sup> Form, Type I, Beads (16-50 Mesh).

# Iron

A  
B  
C  
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U  
V  
W  
X  
Y  
Z

## 0134 Iron Powder / 'BAKER ANALYZED'

▶ Fe	Assay	min. 96.0%
<b>M</b> = 55.85 g/mol	Insoluble in H <sub>2</sub> SO <sub>4</sub>	max. 0.2%
<b>CAS NO.</b> 7439-89-6	Lead (Pb)	max. 0.005%
<b>EINECS</b> 231-096-4	Sulfide (S)	max. 0.03%
<b>NC CODE</b> 7205 29 00	Water Soluble Substances	max. 0.03%
<b>Trace Impurities (in ppm):</b>		
	Arsenic (As)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0134.0500GL	500 g Glass	

## 0135 Iron Powder / 'BAKER' / reduced by hydrogen

▶ Fe	Assay	min. 96%
<b>M</b> = 55.85 g/mol	Acid Insoluble Substances	max. 1.25%
<b>CAS NO.</b> 7439-89-6	Lead (Pb)	max. 0.003%
<b>EINECS</b> 231-096-4	<b>Trace Impurities (in ppm):</b>	
<b>NC CODE</b> 7205 29 00	Arsenic (As)	max. 8
	Mercury (Hg)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0135.2500	2.5 kg	

## 5764 Iron 1000 µg/ml (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Fe	<b>Certificate Provided Reporting Actual Lot Analysis</b>	
<b>M</b> = 55.85 g/mol	Iron (Fe)	998-1002 µg/ml
<b>NC CODE</b> 3822 00 00		
<b>R:</b> 36/38		
<b>S:</b> 26		

PRODUCT NO.	PACKING	CONT. BOX
5764.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## 6929 Iron 1000 µg/ml (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Fe	Iron (Fe)	998-1002 µg/ml
<b>M</b> = 55.85 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>R:</b> 36/38		
<b>S:</b> 26-37		

PRODUCT NO.	PACKING	CONT. BOX
6929.0100	100 ml	
6929.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## 6812 Iron 1000 µg/ml 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Fe	Iron (Fe)	998-1002 µg/ml
<b>M</b> = 55.85 g/mol		
<b>NC CODE</b> 3822 00 00		
<b>R:</b> 36/38		
<b>S:</b> 26-37		

PRODUCT NO.	PACKING	CONT. BOX
6812.0100	100 ml	
6812.0500	500 ml	

Iron(III)nitrate in nitric acid 0.5 mol/l.

*Innovation is principal to our business.*

## Iron 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5731

▶ Fe

**M** = 55.85 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



### Certificate Provided Reporting Actual Lot Analysis

Iron (Fe)	9980-10020 µg/ml
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PRODUCT NO.	PACKING	CONT. BOX
5731.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Iron Ammonium Sulfate

See Ammonium Iron (II) Sulfate Hexahydrate

## Iron(II) Chloride Tetrahydrate

'BAKER ANALYZED'

0125

▶ FeCl<sub>2</sub>·4H<sub>2</sub>O

**M** = 198.81 g/mol  
**CAS NO.** 13478-10-9  
**EINECS** 213-843-4  
**NC CODE** 2827 33 00  
**UN/ID NO.** 3260  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R**: 22-38-41  
**S**: 26-39



Assay	min. 99.0%
Appearance of solution	passes test
Arsenic (As)	max. 0.001%
Copper (Cu)	max. 0.005%
Insoluble Matter	max. 0.01%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Sulfate (SO <sub>4</sub> )	max. 0.01%
Zinc (Zn)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0125.0250	250 g	
0125.9050	50 kg	

## Iron(III) Chloride Anhydrous

'BAKER'

9051

▶ FeCl<sub>3</sub>

**M** = 162.22 g/mol  
**CAS NO.** 7705-08-0  
**EINECS** 231-729-4  
**NC CODE** 2827 33 00  
**UN/ID NO.** 1773  
**ADR/RID** 8 C2  
**IMDG** 8/II  
**R**: 22-34-41  
**S**: 26-36/39-45



Assay	min. 98%
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PRODUCT NO.	PACKING	CONT. BOX
9051.1000	1 kg	

## Iron(III) Chloride Hexahydrate

Lump / 'BAKER ANALYZED' / ACS

0119

▶ FeCl<sub>3</sub>·6H<sub>2</sub>O

**M** = 270.30 g/mol  
**CAS NO.** 10025-77-1  
**EINECS** 231-729-4  
**NC CODE** 2827 33 00  
**R**: 22-38-41  
**S**: 26-39



### Meets ACS Specifications

Assay (by Iodometry)	97.0-102.0%
Calcium (Ca)	max. 0.01%
Copper (Cu) (by AAS)	max. 0.003%
Ferrous Iron (as Fe)	max. 0.002%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.005%
Nitrate (NO <sub>3</sub> )	max. 0.01%
Phosphorus Compounds (as PO <sub>4</sub> )	max. 0.01%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.01%
Zinc (Zn) (by AAS)	max. 0.003%

PRODUCT NO.	PACKING	CONT. BOX
0119.0100	100 g	
0119.1000	1 kg	6

# IronI

## Iron(III) Nitrate Nonahydrate

0121 'BAKER ANALYZED' / ACS

▶  $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$   
**M** = 404.00 g/mol  
**CAS NO.** 7782-61-8  
**EINECS** 233-899-5  
**NC CODE** 2834 29 80  
**UN/ID NO.** 1466  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 36/38-8  
**S:** 26



**Exceeds ACS Specifications**

Assay (by Iodometry)	98.0-101.0%
Insoluble Matter	max. 0.005%
Manganese (Mn)	max. 0.01%
pH of 5% Solution at 25°C	1.5-2.5
Substances not Precipitated by $\text{NH}_4\text{OH}$ (as $\text{SO}_4$ )	max. 0.1%
Sulfate ( $\text{SO}_4$ )	max. 0.01%
<b>Trace Impurities (in ppm):</b>	
Chloride (Cl)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0121.1000	1 kg	

## Iron(III) Oxide

0122 'BAKER ANALYZED'

▶  $\text{Fe}_2\text{O}_3$   
**M** = 159.69 g/mol  
**CAS NO.** 1309-37-1  
**EINECS** 215-168-2  
**NC CODE** 2821 10 00

Assay (by Iodometry)	min. 98.0%
Copper (Cu) (by AAS)	max. 0.01%
Insoluble in HCl	max. 0.2%
Manganese (Mn) (by AAS)	max. 0.05%
Phosphate ( $\text{PO}_4$ )	max. 0.02%
Sulfate ( $\text{SO}_4$ )	max. 0.2%
Zinc (Zn) (by AAS)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0122.0500	500 g	
0122.9012	12 kg PE Pail	

## Iron Reduced

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Iron(III) Sulfate n-Hydrate

0123 'BAKER ANALYZED'

▶  $\text{Fe}_2(\text{SO}_4)_3 \cdot n\text{H}_2\text{O}$   
**CAS NO.** 15244-10-7  
**EINECS** 233-072-9  
**NC CODE** 2833 29 50  
**R:** 22-41  
**S:** 26



Assay ( $\text{Fe}_2(\text{SO}_4)_3$ )	min. 73.0%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.005%
Ferrous Iron (as Fe)	max. 0.02%
Insoluble Matter	max. 0.02%
Nitrate ( $\text{NO}_3$ )	max. 0.01%
Substances not Precipitated by $\text{NH}_4\text{OH}$ (as $\text{SO}_4$ )	max. 0.1%
Zinc (Zn)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0123.1000	1 kg	

## Iron(II) Sulfate Heptahydrate

0126 'BAKER ANALYZED' / ACS

▶  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$   
**M** = 278.02 g/mol  
**CAS NO.** 7782-63-0  
**EINECS** 231-753-5  
**NC CODE** 2833 29 50  
**R:** 22-41  
**S:** 26



**Meets ACS Specifications**

Assay (by $\text{KMnO}_4$ titr.)	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.005%
Ferric ion ( $\text{Fe}^{3+}$ )	max. 0.1%
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.002%
Manganese (Mn)	max. 0.05%
Phosphate ( $\text{PO}_4$ )	max. 0.001%
Potassium (K)	max. 0.002%
Sodium (Na)	max. 0.02%
Zinc (Zn)	max. 0.005%


PRODUCT NO.	PACKING	CONT. BOX
0126.0500	500 g	6

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Iron(II) Sulfate Heptahydrate

'BAKER'

0127

▶ $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	Assay	98.0-105.0%
<b>M</b> = 278.02 g/mol	Appearance of solution	passes test
<b>CAS NO.</b> 7782-63-0	Chlorides (as Cl)	max. 300 ppm
<b>EINECS</b> 231-753-5	Ferric Ions	max. 0.5%
<b>NC CODE</b> 2833 29 50	Heavy Metals (as Pb)	max. 50 ppm
<b>R:</b> 22-41	Identification	passes test
<b>S:</b> 26	Manganese (Mn)	max. 0.1%
 X <sub>n</sub>	pH	3.0-4.0
harmful	Zinc (Zn)	max. 500 ppm

PRODUCT NO.	PACKING	CONT. BOX
0127.1000	1 kg	
0127.9050	50 kg	


## Iron Sesquioxide

See Iron(III) Oxide

## Isoamyl Alcohol

'BAKER ANALYZED'

8010

▶ $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{OH}$	Assay (by GC)	min. 98%
<b>M</b> = 88.15 g/mol	Acids and Esters (as Amyl Acetate)	max. 0.06%
<b>1 l</b> = 0.81 kg	Aldehydes	passes test
<b>FLASHPOINT</b> 43 °C	Boiling Range	128-132°C
<b>CAS NO.</b> 123-51-3	Color (APHA)	max. 5
<b>EINECS</b> 204-633-5	Residue after Evaporation	max. 0.003%
<b>NC CODE</b> 2905 15 00	Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
<b>UN/ID NO.</b> 1105	Titration Acid (meq/g)	max. 0.002
<b>ADR/RID</b> 3 F1	Water ( $\text{H}_2\text{O}$ )	max. 0.2%
<b>IMDG</b> 3/III	<b>Trace Impurities (in ppm):</b>	
<b>R:</b> 10-20	Aluminium (Al)	max. 0.5
<b>S:</b> 24/25	Barium (Ba)	max. 0.1
 X <sub>n</sub>	Boron (B)	max. 0.02
harmful	Cadmium (Cd)	max. 0.05
	Calcium (Ca)	max. 0.5
	Chromium (Cr)	max. 0.02
	Cobalt (Co)	max. 0.02
	Copper (Cu)	max. 0.02
	Iron (Fe)	max. 0.1
	Lead (Pb)	max. 0.1
	Magnesium (Mg)	max. 0.1
	Manganese (Mn)	max. 0.02
	Nickel (Ni)	max. 0.02
	Tin (Sn)	max. 0.1
	Zinc (Zn)	max. 0.1


PRODUCT NO.	PACKING	CONT. BOX
8010.1000	1 l	6
8010.9010	10 l Jerrycan	
8010.9025	25 l	
8010.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Isobutyl Alcohol

'BAKER HPLC ANALYZED' / For use in High Performance Liquid Chromatography

9048-03

▶ $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$	Assay (by GC) (corrected for water)	min. 99.5%
<b>M</b> = 74.12 g/mol	Residue after Evaporation	max. 5 ppm
<b>1 l</b> = 0.80 kg	Water (by KF, coulometric)	max. 0.05%
<b>FLASHPOINT</b> 27 °C	<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
<b>CAS NO.</b> 78-83-1	at 254 nm	max. 0.05
<b>EINECS</b> 201-148-0	at 280 nm	max. 0.02
<b>NC CODE</b> 2905 14 90	at 350 nm	max. 0.01
<b>EC NO.</b> 603 004 00 6	UV Cut-off, nm	max. 220
<b>UN/ID NO.</b> 1212		
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/III		
<b>R:</b> 10-22-37/38-41-67		
<b>S:</b> 13-26-37/39-46-7/9		
 X <sub>n</sub>		
harmful		

PRODUCT NO.	PACKING	CONT. BOX
9048-03	4 l Glass	

## Isobutyl Alcohol

8056 'BAKER ANALYZED'

▶ (CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH  
**M** = 74.12 g/mol  
**1 l** = 0.80 kg  
**FLASHPOINT** 27 °C  
**CAS NO.** 78-83-1  
**EINECS** 201-148-0  
**NC CODE** 2905 14 90  
**EC NO.** 603 004 00 6  
**UN/ID NO.** 1212  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-22-37/38-41-67  
**S:** 13-26-37/39-46-7/9



Assay (by GC)	min. 99.0 %
Carbonyl Compounds	max. 0.1%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Titration Acid (meq/g)	max. 0.0005
Water (H <sub>2</sub> O)	max. 0.1%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8056.1000	1 l	6

## Isobutyl Alcohol

8210 'BAKER'

▶ (CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH  
**M** = 74.12 g/mol  
**1 l** = 0.80 kg  
**FLASHPOINT** 27 °C  
**CAS NO.** 78-83-1  
**EINECS** 201-148-0  
**NC CODE** 2905 14 90  
**EC NO.** 603 004 00 6  
**UN/ID NO.** 1212  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-22-37/38-41-67  
**S:** 13-26-37/39-46-7/9



Boiling Range	106-109°C
Residue after Evaporation	max. 0.005%
Water (H <sub>2</sub> O)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
8210.2500	2.5 l	
8210.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## L-Isoleucine

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Iso-Octane

▶ See 2,2,4-Trimethylpentane

## Isopropyl Alcohol

▶ See 2-Propanol

## Isopropyl Alcohol

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Isopropyl Alcohol 70% Solution, Sterile



▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



## Isopropylamine

'BAKER'

8821

▶ (CH <sub>3</sub> ) <sub>2</sub> CHNH <sub>2</sub>	Boiling Point	31-32°C	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 59.11 g/mol			8821.0100	100 ml	
<b>1 l</b> = 0.69 kg					
<b>FLASHPOINT</b> -37 °C					
<b>CAS NO.</b> 75-31-0					
<b>EINECS</b> 200-860-9					
<b>NC CODE</b> 2921 19 30					
<b>EC NO.</b> 612 007 00 1					
<b>UN/ID NO.</b> 1221					
<b>ADR/RID</b> 3 FC					
<b>IMDG</b> 3/I					
<b>R:</b> 12-36/37/38					
<b>S:</b> 16-26-29					
 <b>F+</b>	 <b>Xi</b>				
extremely flammable	irritant				


## Kaolin

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Karl Fischer Reagent

5.0 mg H<sub>2</sub>O/ml / 'BAKER ANALYZED' / Titrant for moisture determination.

8792


<b>1 l</b> = 1.18 kg	Titer (mg H <sub>2</sub> O/ml)	min. 5.0	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>FLASHPOINT</b> >21 °C			8792.1000	1 l	6
<b>NC CODE</b> 3822 00 00			8792.2500	2.5 l	4
<b>UN/ID NO.</b> 1993					
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/III					
<b>R:</b> 10-20/21/22-60-61					
<b>S:</b> 23-36/37-45-53					
 <b>T</b>					
toxic					

*Solution Stabilized.*  
Contains Pyridine, 2-Methoxyethanol and Sulfur Dioxide.  
One component reagent.

## Karl Fischer Reagent

2.0 mg H<sub>2</sub>O/ml / 'BAKER ANALYZED' / Titrant for moisture determination.

8834

<b>FLASHPOINT</b> 21 °C	Titer (mg H <sub>2</sub> O/ml)	min. 2.0	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>NC CODE</b> 3822 00 00			8834.1000	1 l	
<b>UN/ID NO.</b> 1993			8834.2500	2.5 l	
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/III					
<b>R:</b> 10-20/21/22-60-61					
<b>S:</b> 23-36/37-45-53					
 <b>T</b>					
toxic					

*Solution stabilized.*  
Contains Pyridine, 2-Methoxyethanol and Sulfur Dioxide.  
One component reagent.

## Karl Fischer Reagents

See for detailed information section Karl Fischer reagents, page 195

Find our up-to-date Product Literature  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Kerosene

8387 'BAKER'

**1 l** = 0.79 kg  
**FLASHPOINT** 72 °C  
**CAS NO.** 64742-96-7  
**EINECS** 265-200-4  
**NC CODE** 2710 11 25  
**EC NO.** 649 406 00 5  
**UN/ID NO.** 1223  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 65  
**S:** 23-24-62



Boiling Range 194-250°C

PRODUCT NO.	PACKING	CONT. BOX
8387.5000	5 l EcoTainer	
8387.9200	200 l	

## Kieselguhr

0116 'BAKER' / For filtration

**NC CODE** 3802 90 00  
**R:** 40/20  
**S:** 22



Appearance passes test

PRODUCT NO.	PACKING	CONT. BOX
0116.1000	1 kg	

## DL-Lactic Acid

6069 'BAKER ANALYZED'

▶ CH3CHOHCOOH  
**1 l** = 1.25 kg  
**CAS NO.** 598-82-3  
**EINECS** 201-196-2  
**NC CODE** 2918 11 00  
**R:** 36/38  
**S:** 24/25



Assay (C3H6O3) 85.0-90.0%  
 Chloride (Cl) passes test  
 Citric, Oxalic, Phosphoric or Tartaric Acids passes test  
 Identification passes test  
 Readily Carbonisable Substances passes test  
 Residue after Ignition max. 0.05%  
 Specific Rotation [ $\alpha$ ]<sub>D</sub><sup>20</sup> -0.05 to +0.05°  
 Sugars passes test  
 Sulfate (SO<sub>4</sub>) passes test

### Trace Impurities (in ppm):

Heavy Metals (as Pb) max. 10  
 Iron (Fe) max. 10

PRODUCT NO.	PACKING	CONT. BOX
6069.4000	4 l Glass	
6069.9060	60 l	

## DL-Lactic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Lactic Acid

6017 'BAKER ANALYZED' / ACS

▶ CH3CHOHCOOH  
**M** = 90.08 g/mol  
**1 l** = 1.25 kg  
**FLASHPOINT** 110 °C  
**CAS NO.** 79-33-4  
**EINECS** 201-196-2  
**NC CODE** 2918 11 00  
**R:** 38-41  
**S:** 24-26-37/39



### Meets ACS Specifications

Assay 85.0-90.0%  
 Chloride (Cl) max. 0.001%  
 Residue after Ignition max. 0.02%  
 Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test  
 Sulfate (SO<sub>4</sub>) max. 0.002%

### Trace Impurities (in ppm):

Heavy Metals (as Pb) max. 5  
 Iron (Fe) max. 5

PRODUCT NO.	PACKING	CONT. BOX
6017.1000	1 l	

## Lactic Acid

'BAKER'

6060

<p>▶ <math>\text{CH}_3\text{CHOHCOOH}</math></p> <p><b>M</b> = 90.08 g/mol</p> <p><b>1 l</b> = 1.25 kg</p> <p><b>FLASHPOINT</b> 110 °C</p> <p><b>CAS NO.</b> 79-33-4</p> <p><b>EINECS</b> 201-196-2</p> <p><b>NC CODE</b> 2918 11 00</p> <p><b>R:</b> 38-41</p> <p><b>S:</b> 24-26-37/39</p>	<p>Assay (<math>\text{C}_3\text{H}_6\text{O}_3</math>) 88.0-90.5%</p> <p>Appearance passes test</p> <p>Calcium (Ca) max. 200 ppm</p> <p>Citric, oxalic or phosphoric acid passes test</p> <p>Ether-insoluble Substances passes tes</p> <p>Identification passes test</p> <p>Sugars and other Reducing Substances passes test</p> <p>Sulfated Ash max. 0.05%</p> <p>Sulfates (as <math>\text{SO}_4</math>) max. 200 ppm</p> <p><b>Trace Impurities (in ppm):</b></p> <p>Heavy Metals (as Pb) max. 10 ppm</p>	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>6060.1000</td> <td>1 l</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	6060.1000	1 l	
PRODUCT NO.	PACKING	CONT. BOX						
6060.1000	1 l							

## Lactic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Lactic Acid, Sodium Salt

See Sodium Lactate

## D(+)-Lactose Monohydrate

'BAKER ANALYZED' Biochemical / ACS

0138

<p>▶ <math>\text{C}_{12}\text{H}_{22}\text{O}_{11}\cdot\text{H}_2\text{O}</math></p> <p><b>M</b> = 360.32 g/mol</p> <p><b>CAS NO.</b> 10039-26-6</p> <p><b>EINECS</b> 200-559-2</p> <p><b>NC CODE</b> 1702 11 00</p>	<p><b>Exceeds ACS Specifications</b></p> <p>Dextrose passes test</p> <p>Insoluble Matter max. 0.005%</p> <p>Residue after Ignition max. 0.03%</p> <p>Sucrose passes test</p> <p>Water (<math>\text{H}_2\text{O}</math>) 4.0-6.0%</p> <p><b>Trace Impurities (in ppm):</b></p> <p>Dextrin, Starch max. 5</p> <p>Heavy Metals (as Pb) max. 5</p> <p>Iron (Fe) max. 5</p>	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>0138.1000</td> <td>1 kg</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	0138.1000	1 kg	
PRODUCT NO.	PACKING	CONT. BOX						
0138.1000	1 kg							

## Lactose, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Lanolin

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Lanthanum 1% (w/v)

lanthanum chloride (99.999%) in 0.3M hydrochloric acid / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6947

<p><b>NC CODE</b> 3822 00 00</p>	<p>Chloride (Cl) passes test</p> <p>Lanthanum Content (La) 0.95-1.05%</p>	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>6947.0500</td> <td>500 ml</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	6947.0500	500 ml	
PRODUCT NO.	PACKING	CONT. BOX						
6947.0500	500 ml							

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Lanthanum 1% (w/v)

lanthanum nitrate (99.999%) in 0.3M nitric acid / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6948

<p><b>NC CODE</b> 3822 00 00</p> <p><b>R:</b> 36/38</p> <p><b>S:</b> 26-31</p>	<p>Lanthanum (La) 0.95-1.05%</p> <p>Nitrate (<math>\text{NO}_3</math>) passes test</p>	<table border="0"> <thead> <tr> <th>PRODUCT NO.</th> <th>PACKING</th> <th>CONT. BOX</th> </tr> </thead> <tbody> <tr> <td>6948.0500</td> <td>500 ml</td> <td></td> </tr> </tbody> </table>	PRODUCT NO.	PACKING	CONT. BOX	6948.0500	500 ml	
PRODUCT NO.	PACKING	CONT. BOX						
6948.0500	500 ml							



irritant

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Lanthanum 1000 µg/ml

6949 0.10% (w/v) / (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ La	Lanthanum (La)	998-1002 µg/ml	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 138.90 g/mol			6949.0100	100 ml	
<b>NC CODE</b> 3822 00 00			6949.0500	500 ml	
<b>R</b> : 36/38					
<b>S</b> : 26					

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Lanthanum Chloride 7-Hydrate

0383 'BAKER ANALYZED' / for Atomic Absorption / Flame Photometric Methods / ACS

▶ LaCl <sub>3</sub> ·7H <sub>2</sub> O	<i>Exceeds ACS Specifications</i>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 371.38 g/mol	Assay (LaCl <sub>3</sub> )	64.5-70.0%	0383.0025	25 g Glass	6
<b>CAS NO.</b> 10099-58-8	Calcium (Ca)	max. 0.001%	0383.0100	100 g	
<b>EINECS</b> 233-237-5	Insoluble Matter	max. 0.01%			
<b>NC CODE</b> 2846 90 00	<b>Trace Impurities (in ppm):</b>				
	Magnesium (Mg)	max. 1			

## Lanthanum Nitrate Hexahydrate

0597 'BAKER' / for Atomic Absorption / Flame Photometric Methods

▶ La(NO <sub>3</sub> ) <sub>3</sub> ·6H <sub>2</sub> O	Calcium (Ca) (by AAS)	max. 0.001%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 433.02 g/mol			0597.0100	100 g	
<b>CAS NO.</b> 10277-43-7					
<b>EINECS</b> 233-238-0					
<b>NC CODE</b> 2846 90 00					
<b>UN/ID NO.</b> 1477					
<b>ADR/RID</b> 5.1 02					
<b>IMDG</b> 5.1/II					
<b>R</b> : 41-8					
<b>S</b> : 26-39					

## Lanthanum Oxide

4991 Powder / ULTREX Ultrapure Reagent

▶ La <sub>2</sub> O <sub>3</sub>	<i>Certificate Provided Reporting Actual Lot Analysis</i>		<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 325.84 g/mol	<i>Actual Lot Analysis Lot. No. B32431</i>		4991.0100	100 g PE	
<b>CAS NO.</b> 1312-81-8	Assay (by EDTA titrn.)	99.3%			
<b>EINECS</b> 215-200-5	Loss on Ignition at 1150°C	0.6%			
<b>NC CODE</b> 2846 90 00	Particulate Matter	< 0.0001%			
	<b>Metallic Impurities in parts per million (µg/g):</b>				
	Aluminium (Al)	< 1			
	Calcium (Ca)	< 0.5			
	Copper (Cu)	< 1			
	Iron (Fe)	< 1			
	Lead (Pb)	< 10			
	Magnesium (Mg)	< 0.3			
	Potassium (K)	< 0.5			
	Rare Earths	< 10			
	Silver (Ag)	< 1			
	Sodium (Na)	< 0.3			
	Tin (Sn)	< 10			
	<b>Non-Metallic Impurities in parts per million (µg/g):</b>				
	Halide (as Cl)	5			
	Silicon (Si)	< 1			
	Sulfur Compounds (as SO <sub>4</sub> )	3			

For Laboratory, Research or Manufacturing Use.

## Lauryl Alcohol

See 1-Dodecanol

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Lead 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5765

▶ Pb

**M** = 207.21 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



irritant

**Certificate Provided Reporting Actual Lot Analysis**

Lead (Pb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5765.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Lead 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6930

▶ Pb

**M** = 207.20 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



irritant

Lead (Pb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6930.0100	100 ml	
6930.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Lead 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6813

▶ Pb

**M** = 207.21 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



irritant

Lead (Pb) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6813.0100	100 ml	
6813.0500	500 ml	

Lead(II)nitrate in nitric acid 0.5 mol/l.

## Lead 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5732

▶ Pb

**M** = 207.21 g/mol  
**NC CODE** 3822 00 00  
**R**: 22-33-36/38-52/53-61  
**S**: 26-45-61



toxic

**Certificate Provided Reporting Actual Lot Analysis**

Lead (Pb) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5732.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Lead Acetate Basic Anhydrous

'BAKER ANALYZED' / For sugar analysis / ACS

0142

**CAS NO.** 1335-32-6  
**EINECS** 215-630-3  
**NC CODE** 2915 29 00  
**EC NO.** 82 007 00 9  
**UN/ID NO.** 1616  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R**: 33-40-48/22-50/53-61-62  
**S**: 45-53-60-61



dangerous for the environment



toxic

**Exceeds ACS Specifications**

Basic Lead (PbO)	min. 33.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.002%
Insoluble in Dilute Acetic Acid	max. 0.02%
Insoluble in Water	max. 1.0%
Iron (Fe)	max. 0.002%
Loss on Drying at 105°C	max. 1.5%
Nitrate and Nitrite (as NO <sub>3</sub> )	max. 0.003%
Potassium (K)	max. 0.02%
Sodium (Na)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
0142.1000	1 kg	6

# Lead

## Lead(II) Acetate Trihydrate

0141 'BAKER ANALYZED' / ACS

▶  $Pb(CH_3COO)_2 \cdot 3H_2O$

**M** = 379.33 g/mol

**CAS NO.** 6080-56-4

**EINECS** 206-104-4

**NC CODE** 2915 29 00

**EC NO.** 82 005 00 8

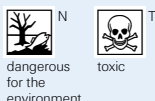
**UN/ID NO.** 1616

**ADR/RID** 6.1 T5

**IMDG** 6.1/III

**R:** 33-48/22-50/53-61-62

**S:** 45-53-60-61



### Exceeds ACS Specifications

Assay	99.0-103.0%
Calcium (Ca)	max. 0.005%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrate and Nitrite (as $NO_3$ )	max. 0.005%
pH of 5% Solution at 25°C	5.5-6.5
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.01%

### Trace Impurities (in ppm):

Chloride (Cl)	max. 5
---------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0141.0250	250 g	

## Lead(II) Chloride

0145 'BAKER ANALYZED'

▶  $PbCl_2$

**M** = 278.10 g/mol

**CAS NO.** 7758-95-4

**EINECS** 231-845-5

**NC CODE** 2827 39 80

**EC NO.** 82 001 00 6

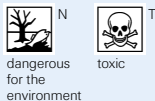
**UN/ID NO.** 2291

**ADR/RID** 6.1 T5

**IMDG** 6.1/III

**R:** 20/22-33-50/53-61-62

**S:** 45-53-60-61



Assay (by EDTA titrn.)	min. 99.0%
Copper (Cu)	max. 0.005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrate ( $NO_3$ )	max. 0.005%
Sulfate ( $SO_4$ )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0145.0500	500 g	

## Lead(II) Nitrate

0148 'BAKER ANALYZED'

▶  $Pb(NO_3)_2$

**M** = 331.20 g/mol

**CAS NO.** 10099-74-8

**EINECS** 233-245-9

**NC CODE** 2834 29 80

**EC NO.** 82 001 00 6

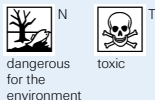
**UN/ID NO.** 1469

**ADR/RID** 5.1 OT2

**IMDG** 5.1/II

**R:** 20/22-33-50/53-61-62

**S:** 45-53-60-61



### Exceeds ACS Specifications

Assay (by EDTA titrn.)	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Copper (Cu)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	3.5-4.2
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0148.0100	100 g	
0148.9050	50 kg	

Mallinckrodt Baker's chemistry  
is Part of a pure process™.

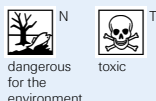
## Lead(II) Oxide (Litharge)

powder / 'BAKER ANALYZED' / ACS

2338

▶ PbO

**M** = 223.19 g/mol  
**CAS NO.** 1317-36-8  
**EINECS** 215-267-0  
**NC CODE** 2824 10 00  
**EC NO.** 82 001 00 6  
**UN/ID NO.** 2291  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 20/22-33-50/53-61-62  
**S:** 45-53-60-61



### Meets ACS Specifications

Assay	min. 99.0%
Average Particle Diameter, $\mu\text{m}$ (APD)	act. value reported
Bulk Density (g/cc)(typical)	act. value reported
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Copper (Cu)	max. 0.005%
Insoluble in $\text{CH}_3\text{COOH}$	max. 0.02%
Nitrate ( $\text{NO}_3$ )	max. 0.01%
Potassium (K)	max. 0.005%
Silicon (Si)	act. value reported
Sodium (Na)	max. 0.02%
Specific Surface Area, $\text{m}^2/\text{g}$ (typical)	act. value reported

### Mesh (Wet Screen Analysis):

On U.S. No. 325 Sieve act. value reported

### Trace Impurities (in ppm):

Iron (Fe)	max. 5
Silver (Ag)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
2338.0500PE	500 ml HDPE	

## Lead Subacetate

See Lead Acetate Basic Anhydrous

## Leishman

Hematology

3879

**1 l** = 0.79 kg  
**FLASHPOINT** 11C °C  
**UN/ID NO.** 1230  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7



### Leishmans stain for differential blood picture staining

PRODUCT NO.	PACKING	CONT. BOX
3879.1000	1 l Glass	
3879.2500	2.5 l Glass	

## Leishman Stain

Hematology

3813

**CAS NO.** 12627-53-1  
 235-732-1  
**EINECS**  
**R:** 36  
**S:** 26



### Leishmans stain for differential blood picture staining

PRODUCT NO.	PACKING	CONT. BOX
3813.0025	25 g Glass	

## L-Leucine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Levulose

See D(-)Fructose

## Lithium 1000 $\mu\text{g}/\text{ml}$

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5766

▶ Li

**M** = 6.94 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



### Certificate Provided Reporting Actual Lot Analysis

Lithium (Li) 998-1002  $\mu\text{g}/\text{ml}$

PRODUCT NO.	PACKING	CONT. BOX
5766.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within  $\pm 0.2\%$ . Typically 1000  $\mu\text{g}/\text{ml}$ . The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

# Lithi

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Lithium 1000 µg/ml

6931 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Li Lithium (Li) 998-1002 µg/ml  
**M** = 6.94 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



PRODUCT NO.	PACKING	CONT. BOX
6931.0100	100 ml	
6931.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Lithium 1000 µg/ml

6814 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Li Lithium (Li) 998-1002 µg/ml  
**M** = 6.94 g/mol  
**NC CODE** 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
6814.0100	100 ml	
6814.0500	500 ml	

Lithium chloride in water.

## Lithium 10000 µg/ml

5733 (Matrix: 7% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Li **Certificate Provided Reporting Actual Lot Analysis**  
 Lithium (Li) 9980-10020 µg/ml  
**M** = 6.94 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**IMDG** 8/II  
**R**: 34  
**S**: 20-23-26-36/37/39-45



PRODUCT NO.	PACKING	CONT. BOX
5733.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Lithium meta-Borate

0382 'BAKER ANALYZED' / ACS

▶ LiBO<sub>2</sub>  
**M** = 49.75 g/mol  
**CAS NO.** 13453-69-5  
**EINECS** 236-631-5  
**NC CODE** 2840 20 90

**Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs**

Assay (LiBO <sub>2</sub> )	98.0-102.0%
Aluminium (Al)	max. 0.001%
Bulk Density	min. 0.25 g/ml
Calcium (Ca)	max. 0.01%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Fusion at 950°C	max. 2.0%
Phosphorus Compounds (as PO <sub>4</sub> )	max. 0.004%
Potassium (K)	max. 0.005%
Silicon (Si)	max. 0.005%
Sodium (Na)	max. 0.005%

**Trace Impurities (in ppm):**

Magnesium (Mg)	max. 5
----------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0382.0100	100 g	

The formula weight of this reagent is likely to deviate from the value cited above, since the natural distribution of <sup>6</sup>Li and <sup>7</sup>Li isotopes is often altered in current sources of lithium compounds.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)



## Lithium Carbonate

'BAKER ANALYZED'

0155

▶ Li<sub>2</sub>CO<sub>3</sub>

**M** = 73.89 g/mol  
**CAS NO.** 554-13-2  
**EINECS** 209-062-5  
**NC CODE** 2836 91 00  
**R:** 22-38  
**S:** 22



harmful

Assay	min. 99.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.002%
Insoluble in HCl	max. 0.01%
Iron (Fe)	max. 0.002%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.01%
Total Sulfur (as SO <sub>4</sub> )	max. 0.2%

**Trace Impurities (in ppm):**

Ammonium (NH <sub>4</sub> )	max. 5
Nitrate (NO <sub>3</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0155.0100	100 g	
0155.9050	50 kg	

## Lithium Chloride

'BAKER ULTRAPURE BIOAGENT'

4002

▶ LiCl

**M** = 42.39 g/mol  
**CAS NO.** 7447-41-8  
**EINECS** 231-212-3  
**NC CODE** 2827 39 80  
**R:** 22-36/38  
**S:** 24



harmful

Assay (argentometric titrn.)	min. 99.0%
Calcium (Ca) (by FES)	max. 0.01%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
Potassium (K) (by FES)	max. 0.01%
Protease Activity	none detected
RNase Activity	none detected
Sodium (Na) (by FES)	max. 0.2%
Titrate Base (meq/g)	max. 0.008

PRODUCT NO.	PACKING	CONT. BOX
4002.0500	500 g	
4002.2500	2.5 kg	

## Lithium Chloride

'BAKER ANALYZED' / ACS

0156

▶ LiCl

**M** = 42.39 g/mol  
**CAS NO.** 7447-41-8  
**EINECS** 231-212-3  
**NC CODE** 2827 39 80  
**R:** 22-36/38  
**S:** 24



harmful

**Meets ACS Specifications**

Assay	min. 99%
Barium (Ba)	max. 0.003%
Calcium (Ca)	max. 0.01%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
Nitrate (NO <sub>3</sub> )	max. 0.001%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.20%
Sulfate (SO <sub>4</sub> )	max. 0.01%
Titrate Base (meq/g)	max. 0.008

PRODUCT NO.	PACKING	CONT. BOX
0156.0100	100 g	6
0156.1000	1 kg	
0156.5000	5 kg	
0156.9050	50 kg	

## Lithium Chloride

'BAKER'

0157

▶ LiCl

**M** = 42.39 g/mol  
**CAS NO.** 7447-41-8  
**EINECS** 231-212-3  
**NC CODE** 2827 39 80  
**R:** 22-36/38  
**S:** 24



harmful

Assay (argentometric titrn.)	min. 98.0%
Heavy Metals (as Pb)	max. 0.01%
Insoluble Matter	max. 0.05%
pH of 5% Solution at 25°C	6.0-9.0
Sodium (Na)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
0157.0250	250 g	
0157.9050	50 kg	

## Lithium Nitrate

0158 'BAKER ANALYZED'

▶ LiNO<sub>3</sub>

**M** = 68.94 g/mol  
**CAS NO.** 7790-69-4  
**EINECS** 232-218-9  
**NC CODE** 2834 29 80  
**UN/ID NO.** 2722  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 8  
**S:** 17-24/25



Assay (acidimetric)	min. 97.0%
Barium (Ba)	max. 0.002%
Calcium (Ca) (by FES)	max. 0.02%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Potassium (K) (by FES)	max. 0.05%
Sodium (Na) (by FES)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0158.0500	500 g	6

## Lithium Tetraborate

1465 'BAKER INSTRA-ANALYZED'

▶ Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub>

**M** = 169.12 g/mol  
**CAS NO.** 12007-60-2  
**EINECS** 234-514-3  
**NC CODE** 2840 20 90

Assay (dried basis)	min. 99.5%
Loss on Drying at 285°C	max. 1%

### Metallic and Non-metallic Impurities (by DC-arc Spectrography) (in ppm):

Aluminium (Al)	max. 30
Calcium (Ca)	max. 100
Chromium (Cr)	max. 20
Cobalt (Co)	max. 50
Copper (Cu)	max. 20
Iron (Fe)	max. 30
Lead (Pb)	max. 20
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 50
Nickel (Ni)	max. 20
Potassium (K)	max. 50
Silicon (Si)	max. 80
Sodium (Na)	max. 150

PRODUCT NO.	PACKING	CONT. BOX
1465.0500	500 g	

Flux Grade.

## L-Lysine Hydrochloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Magnesium

1120 Chips / 'BAKER'

▶ Mg

**M** = 24.30 g/mol  
**CAS NO.** 7439-95-4  
**EINECS** 231-104-6  
**NC CODE** 8104 30 00  
**EC NO.** 12 002 00 9  
**UN/ID NO.** 1869  
**ADR/RID** 4.1 F3  
**IMDG** 4.1/III  
**R:** 11-15  
**S:** 43A-7/8



Assay	min. 99%
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PRODUCT NO.	PACKING	CONT. BOX
1120.0500	500 g	

*Innovation is principal to our business.*

### Magnesium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5767

▶ Mg

**M** = 24.31 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



#### Certificate Provided Reporting Actual Lot Analysis

Magnesium (Mg)	998-1002 µg/ml
----------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
5767.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Magnesium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6932

▶ Mg

**M** = 24.31 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



Magnesium (Mg)	998-1002 µg/ml
----------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
6932.0100	100 ml	
6932.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Magnesium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6815

▶ Mg

**M** = 24.31 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



Magnesium (Mg)	998-1002 µg/ml
----------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
6815.0100	100 ml	
6815.0500	500 ml	

Magnesium nitrate in nitric acid 0.5 mol/l.

### Magnesium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5734

▶ Mg

**M** = 24.31 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 24/25-26-37



#### Certificate Provided Reporting Actual Lot Analysis

Magnesium (Mg)	9980-10020 µg/ml
----------------	------------------

PRODUCT NO.	PACKING	CONT. BOX
5734.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Magnesium Acetate Tetrahydrate

'BAKER ANALYZED' / ACS

0160

▶ Mg(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O

**M** = 214.46 g/mol  
**CAS NO.** 16674-78-5  
**EINECS** 205-554-9  
**NC CODE** 2915 29 00

#### Meets ACS Specifications

Assay	98.0-102.0%
Barium (Ba)	max. 0.001%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Manganese (Mn)	max. 0.001%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Strontium (Sr)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.005%

#### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0160.0250	250 g	

## Magnesium Carbonate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Magnesium Carbonate n-Hydrate

0161 'BAKER ANALYZED'

▶  $4\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot n\text{H}_2\text{O}$   
**CAS NO.** 12125-28-9  
**EINECS** 235-192-7  
**NC CODE** 2836 99 11

Assay (as MgO)	40.0-45.0%
Appearance of solution	passes test
Arsenic (As)	max. 2 ppm
Calcium (Ca)	max. 0.75%
Chlorides (as Cl)	max. 0.07%
Heavy Metals (as Pb)	max. 20 ppm
Iron (Fe)	max. 400 ppm
Soluble Substances	max. 1.0%
Substances Insoluble in Acetic Acid	max. 0.05%
Sulfates (as $\text{SO}_4$ )	max. 0.3%

PRODUCT NO.	PACKING	CONT. BOX
0161.0250	250 g	

### Magnesium Chloride Hexahydrate

4003 'BAKER ULTRAPURE BIOREAGENT'

▶  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
**M** = 203.30 g/mol  
**CAS NO.** 7791-18-6  
**EINECS** 232-094-6  
**NC CODE** 2827 31 00

Assay	99.0 - 102.0%
Ammonium ( $\text{NH}_4$ )	max. 0.002%
Calcium (Ca)	max. 0.01%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
Potassium (K)	max. 0.005%
Protease Activity	none detected
RNase Activity	none detected
Sodium (Na)	max. 0.005%
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Manganese (Mn)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4003.0500	500 g	
4003.2500	2.5 kg	

### Magnesium Chloride Hexahydrate

0162 'BAKER ANALYZED' / ACS

▶  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
**M** = 203.30 g/mol  
**CAS NO.** 7791-18-6  
**EINECS** 232-094-6  
**NC CODE** 2827 31 00

<b>Meets ACS Specifications</b>	
Assay	99.0-102.0%
Ammonium ( $\text{NH}_4$ )	max. 0.002%
Barium (Ba)	max. 0.005%
Calcium (Ca)	max. 0.01%
Insoluble Matter	max. 0.005%
Nitrate ( $\text{NO}_3$ )	max. 0.001%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Strontium (Sr)	max. 0.005%
Sulfate ( $\text{SO}_4$ )	max. 0.002%
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Manganese (Mn)	max. 5
Phosphate ( $\text{PO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0162.0250	250 g	6
0162.1000	1 kg	6

### Magnesium Chloride Hexahydrate

0163 'BAKER'

▶  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
**M** = 203.30 g/mol  
**CAS NO.** 7791-18-6  
**EINECS** 232-094-6  
**NC CODE** 2827 31 00

Assay	min. 98.5%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Substances	max. 0.01%
pH of 5% Solution at 25°C	4.5-7.0

PRODUCT NO.	PACKING	CONT. BOX
0163.1000	1 kg	

### Magnesium Chloride, 6-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Magnesium Hydroxide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Magnesium Nitrate Hexahydrate

'BAKER ANALYZED' / ACS

0164

▶ Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O

M = 256.41 g/mol

CAS NO. 13446-18-9

EINECS 233-826-7

NC CODE 2834 29 80

UN/ID NO. 1474

ADR/RID 5.1 02

IMDG 5.1/III

R: 8

S: 24/25



oxidizing

### Exceeds ACS Specifications

Assay	98.0-102.0%
Ammonium (NH <sub>4</sub> )	max. 0.002%
Barium (Ba)	max. 0.002%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	5.0-7.0
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Strontium (Sr)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.005%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Manganese (Mn)	max. 5
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0164.0500	500 g	6

## Magnesium Oxide

'BAKER ANALYZED' / ACS

1122

▶ MgO

M = 40.30 g/mol

CAS NO. 1309-48-4

EINECS 215-171-9

NC CODE 2519 90 10

S: 22

### Exceeds ACS Specifications. Meets Reagents

#### Specifications for testing USP/NF monographs

Barium (Ba)	max. 0.005%
Calcium (Ca)	max. 0.05%
Chloride (Cl)	max. 0.01%
Heavy Metals (as Pb)	max. 0.003%
Insoluble in Dilute HCl	max. 0.02%
Iron (Fe)	max. 0.01%
Loss on Ignition	max. 2.0%
Manganese (Mn)	max. 5 ppm
Nitrate (NO <sub>3</sub> )	max. 0.005%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.5%
Strontium (Sr)	max. 0.005%
Sulfate and Sulfite (as SO <sub>4</sub> )	max. 0.02%
Water Soluble Substances	max. 0.4%

#### Product Information (not specifications):

Average Particle Diameter, μm (APD) (by Sedigraph)(typical)	4
Bulk Density (g/cc)(typical)	0.5
Specific Surface Area, m <sup>2</sup> /g (typical)	7

PRODUCT NO.	PACKING	CONT. BOX
1122.1000	1 kg	
1122.9050	50 kg	

## Magnesium Oxide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Magnesium Perchlorate

See Anhydrous

## Magnesium Silicate, Activated

See Florisil

## Magnesium Stearate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

0366

## Magnesium Sulfate Anhydrous

'BAKER ANALYZED'

▶ MgSO<sub>4</sub>

**M** = 120.37 g/mol  
**CAS NO.** 7487-88-9  
**EINECS** 231-298-2  
**NC CODE** 2833 21 00

Assay (after ignition)	min. 99.0%
Ammonium (NH <sub>4</sub> )	max. 0.004%
Calcium (Ca)	max. 0.06%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Loss on Ignition	max. 2.0%
Manganese (Mn)	max. 0.001%
Nitrate (NO <sub>3</sub> )	max. 0.004%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0366.0500	500 g	6



## Magnesium Sulfate Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

0168

## Magnesium Sulfate Heptahydrate

'BAKER ANALYZED' / ACS

▶ MgSO<sub>4</sub>·7H<sub>2</sub>O

**M** = 246.47 g/mol  
**CAS NO.** 10034-99-8  
**EINECS** 231-298-2  
**NC CODE** 2833 21 00

<b>Exceeds ACS Specifications</b>	
Assay (by EDTA titrm.)	99.0-102.0%
Ammonium (NH <sub>4</sub> )	max. 0.002%
Calcium (Ca)	max. 0.02%
Insoluble Matter	max. 0.005%
Nitrate (NO <sub>3</sub> )	max. 0.002%
pH of 5% Solution at 25°C	5.0-7.0
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Strontium (Sr)	max. 0.005%
<b>Trace Impurities (in ppm):</b>	
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Manganese (Mn)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0168.0500	500 g	6

0169

## Magnesium Sulfate Heptahydrate

'BAKER'

▶ MgSO<sub>4</sub>·7H<sub>2</sub>O

**M** = 246.47 g/mol  
**CAS NO.** 10034-99-8  
**EINECS** 231-298-2  
**NC CODE** 2833 21 00

Assay (dried basis)	99.0-100.5%
Acidity or Alkalinity	passes test
Appearance of solution	passes test
Arsenic (As)	max. 2 ppm
Chlorides (as Cl)	max. 300 ppm
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iron (Fe)	max. 20 ppm
Loss on Drying	48.0-52.0%

PRODUCT NO.	PACKING	CONT. BOX
0169.5000	5 kg	4
0169.9050	50 kg	



## Magnesium Sulfate, 7-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

1325

## Malachite Green Oxalate

'BAKER ANALYZED'

▶ C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O<sub>12</sub>

**M** = 927.00 g/mol  
**CAS NO.** 2437-29-8  
**EINECS** 219-441-7  
**NC CODE** 3204 13 00  
**UN/ID NO.** 2811  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 21/22  
**S:** 24/25

Appearance passes test

PRODUCT NO.	PACKING	CONT. BOX
1325.0100	100 g	

C.I. 42000.  
Certified Stain for Use in Histology and Bacteriology.



harmful

## Maleic Acid

'BAKER ANALYZED'

2790

▶ HOCOCH:CHCOOH

M = 116.07 g/mol

CAS NO. 110-16-7

EINECS 203-742-5

NC CODE 2917 19 90

EC NO. 607 095 00 3

UN/ID NO. 3261

ADR/RID 8 C4

IMDG 8/III

R: 22-36/37/38

S: 26-28-37



Assay (acidimetric) min. 99.0%

Chloride (Cl) max. 0.002%

Heavy Metals (as Pb) max. 0.001%

Iron (Fe) max. 0.001%

Melting Point 132-135°C

Residue after Ignition max. 0.1%

Sulfate (SO<sub>4</sub>) max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
2790.0500	500 g	

## Malonic Acid

'BAKER ANALYZED'

1124

▶ CH<sub>2</sub>(COOH)<sub>2</sub>

M = 104.06 g/mol

CAS NO. 141-82-2

EINECS 205-503-0

NC CODE 2917 19 10

R: 22-36

S: 22-24



Assay min. 99.0%

Heavy Metals (as Pb) max. 0.001%

Iron (Fe) max. 0.005%

Melting Range 133-134°C

Residue after Ignition max. 0.3%

PRODUCT NO.	PACKING	CONT. BOX
1124.0100	100 g	

## Manganese 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5793

▶ Mn

M = 54.94 g/mol

NC CODE 3822 00 00

R: 36/37/38

S: 26-28-45

**Certificate Provided Reporting Actual Lot Analysis**

Manganese (Mn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5793.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Manganese 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6933

▶ Mn

M = 200.59 g/mol

NC CODE 3822 00 00

R: 36/38

S: 26-37



Manganese (Mn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6933.0100	100 ml	
6933.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Manganese 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6816

▶ Mn

M = 54.94 g/mol

NC CODE 3822 00 00

R: 36/38

S: 26-37



Manganese (Mn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6816.0100	100 ml	
6816.0500	500 ml	

Manganese(II)nitrate in nitric acid 0.5 mol/l.

## Manganese 10000 µg/ml

5735 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Mn

**M** = 54.94 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



### Certificate Provided Reporting Actual Lot Analysis

Manganese (Mn) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5735.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Manganese(II) Carbonate

0172 'BAKER ANALYZED'

▶ MnCO<sub>3</sub>

**M** = 114.95 g/mol  
**CAS NO.** 598-62-9  
**EINECS** 209-942-9  
**NC CODE** 2836 99 18  
**S**: 22-24/25

Assay (as Mn)	min. 43.0%
Average Particle Diameter, µm (APD)	max. 3
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.02%
Insoluble in HCl	max. 0.01%
Iron (Fe)	max. 0.02%
Magnesium (Mg)	max. 0.01%
Other Heavy Metals (as Pb)	max. 0.005%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.005%
Zinc (Zn)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
0172.0500	500 g	
0172.9012	12 kg	

## Manganese(II) Chloride Tetrahydrate

0173 'BAKER ANALYZED' / ACS

▶ MnCl<sub>2</sub>·4H<sub>2</sub>O

**M** = 197.91 g/mol  
**CAS NO.** 13446-34-9  
**EINECS** 231-869-6  
**NC CODE** 2827 39 90  
**R**: 22  
**S**: 24



### Meets ACS Specifications

Assay (by EDTA titrn.)	98.0-101.0%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	3.5-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.005%
Zinc (Zn)	max. 0.005%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0173.0500	500 g	6

## Manganese Dioxide

See Manganese(IV) Oxide

## Manganese(IV) Oxide

0170 'BAKER ANALYZED'

▶ MnO<sub>2</sub>

**M** = 86.94 g/mol  
**CAS NO.** 1313-13-9  
**EINECS** 215-202-6  
**NC CODE** 2820 10 00  
**EC NO.** 25 001 00 3  
**R**: 20/22  
**S**: 25



Assay (by EDTA titrn.)	min. 99.0%
Chloride (Cl)	max. 0.01%
Insoluble in HCl	max. 0.03%
Iron (Fe)	max. 0.05%
Nitrate (NO <sub>3</sub> )	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.08%

PRODUCT NO.	PACKING	CONT. BOX
0170.1000	1 kg	



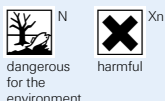
## Manganese(II) Sulfate Monohydrate

'BAKER ANALYZED' / ACS

0174

▶  $MnSO_4 \cdot H_2O$ 

**M** = 169.01 g/mol  
**CAS NO.** 10034-96-5  
**EINECS** 232-089-9  
**NC CODE** 2833 29 90  
**EC NO.** 25 003 00 4  
**UN/ID NO.** 3077  
**ADR/RID** 9 M7  
**IMDG** 9/III  
**R:** 48/20/22-51/53  
**S:** 22-61

**Exceeds ACS Specifications**

Assay	98.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Ignition	10.0-12.0%
Magnesium (Mg)	max. 0.005%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.005%
Zinc (Zn)	max. 0.005%

**Trace Impurities (in ppm):**

Copper (Cu)	max. 5
Nickel (Ni)	max. 5
Substances Reducing $KMnO_4$	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0174.1000	1 kg	

## Mannitol

'BAKER ANALYZED' / ACS

1125

▶  $HOCH_2(CHOH)_4CH_2OH$ 

**M** = 182.17 g/mol  
**CAS NO.** 69-65-8  
**EINECS** 200-711-8  
**NC CODE** 2905 43 00

**Meets ACS Specifications**

Insoluble Matter	max. 0.01%
Loss on Drying at 105°C	max. 0.05%
Reducing Sugars	passes test
Residue after Ignition	max. 0.01%
Specific Rotation $[\alpha]_D^{20}$	+23.3° to +24.3°
Titration Acid (meq/g)	max. 0.0008

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
----------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
1125.0250	250 g	
1125.1000	1 kg	6

## Mannitol

'BAKER'

1998

▶  $HOCH_2(CHOH)_4CH_2OH$ 

**M** = 182.17 g/mol  
**CAS NO.** 69-65-8  
**EINECS** 200-711-8  
**NC CODE** 2905 43 00

Assay (dried basis)	96.0-101.5%
Acidity	passes test
Arsenic (As)	max. 1 ppm
Chloride (Cl)	max. 0.007%
Identification	passes test
Loss on Drying at 105°C	max. 0.3%
Melting Range	164-169°C
Reducing Sugars	passes test
Specific rotation	+137- +145°
Sulfate ( $SO_4$ )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1998.1000	1 kg	6
1998.9050	50 kg	

## Mannitol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Marshall's Reagent

See N-(1-Naphthyl) Ethylenediamine Dihydrochloride

## May Grünwald

Powder / HEMATOLOGY/CYTOLOGY/HISTOLOGY

3814

**NC CODE** 3204 12 00  
**R:** 22-36  
**S:** 22-26



**Non oxidized Methylene Blue/Eosine Y Stain,**  
**suitable for staining blood smears**

PRODUCT NO.	PACKING	CONT. BOX
3814.0025	25 g Glass	

## May Grünwald

3855 HEMATOLOGY/CYTOLOGY/HISTOLOGY

1 l = 0.79 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 3204 12 00  
**UN/ID NO.** 1230  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39-39/23/24/25  
**S:** 16-36/37/39-45



**May-Grünwalds Eosine-Methylene Blue Solution  
 modified for Microscopy (contains Methanol)**

PRODUCT NO.	PACKING	CONT. BOX
3855.0100	100 ml Glass	
3855.0500	500 ml Glass	
3855.1000	1 l Glass	
3855.2500	2.5 l Glass	
3855.9020PE	20 L jerrycan	

## Mayer's Hematoxyline

See Hematoxyline

## Menthol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

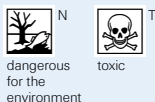
## levo-Menthol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## 2-Mercaptoethanol

4049 'BAKER ULTRAPURE BIOREAGENT'

▶ HSCH<sub>2</sub>CH<sub>2</sub>OH  
**M** = 78.13 g/mol  
**1 l** = 1.11 kg  
**FLASHPOINT** 74 °C  
**CAS NO.** 60-24-2  
**EINECS** 200-464-6  
**NC CODE** 2930 90 70  
**UN/ID NO.** 2966  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/II  
**R:** 22-24-34-51/53  
**S:** 26-28A-36/37/39-45-61



**For Electrophoresis and other Molecular Biology**

**Applications**

Assay (by GC)	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Protease Activity	none detected
RNase Activity	none detected

**Trace Impurities (in ppm):**

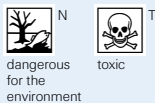
Copper (Cu)	max. 10
Iron (Fe)	max. 5
Lead (Pb)	max. 5
Zinc (Zn)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4049.0100	100 g	
4049.0500	500 g	

## Mercury

9006 'BAKER ANALYZED' / ACS

▶ Hg  
**M** = 200.59 g/mol  
**CAS NO.** 7439-97-6  
**EINECS** 231-106-7  
**NC CODE** 2805 40 90  
**EC NO.** 80 001 00 0  
**UN/ID NO.** 2809  
**ADR/RID** 8 C9  
**IMDG** 8/III  
**R:** 23-33-50/53  
**S:** 45-60-61-7



**Meets ACS Specifications**

Appearance	passes test
Non-volatile Matter	max. 5 ppm

PRODUCT NO.	PACKING	CONT. BOX
9006.0500	500 g	
9006.1000	1 kg	

### Mercury 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5768

▶ Hg

**M** = 200.59 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 7 004 00 1  
**R:** 20/21/22-33-36/38  
**S:** 26-36/37



**Certificate Provided Reporting Actual Lot Analysis**

Mercury (Hg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5768.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Mercury 1000 µg/ml

0.10% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6934

▶ Hg

**M** = 200.59 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/21/22-33-36/38  
**S:** 26-36/37



Mercury (Hg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6934.0100	100 ml	
6934.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Mercury 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6817

▶ Hg

**M** = 200.59 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/21/22-33-36/38  
**S:** 26-36/37



Mercury (Hg) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6817.0100	100 ml	
6817.0500	500 ml	

Mercury(II)nitrate in nitric acid 0.5 mol/l.

### Mercury 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5736

▶ Hg

**M** = 200.59 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 7 004 00 1  
**R:** 23/24/25-33-36/38-52/53  
**S:** 26-36/37-45



**Certificate Provided Reporting Actual Lot Analysis**

Mercury (Hg) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5736.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

*Make a clear diagnosis with J.T.Baker  
 Histopathology reagents and stains.*

*See chapter 4 of this catalogue for more details.*

## Mercury(II) Acetate

1128 'BAKER ANALYZED' / ACS

▶  $\text{Hg}(\text{CH}_3\text{COO})_2$

**M** = 318.68 g/mol  
**CAS NO.** 1600-27-7  
**EINECS** 216-491-1  
**NC CODE** 2915 29 00  
**EC NO.** 80 004 00 7  
**UN/ID NO.** 1629  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 26/27/28-33-50/53  
**S:** 13-28-36-45-60-61



### Meets ACS Specifications

Assay	min. 98.0%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Mercurous Mercury (as Hg)	max. 0.4%
Nitrate ( $\text{NO}_3$ )	max. 0.005%
Other Heavy Metals (as Pb)	max. 0.002%
Residue after Reduction	max. 0.02%
Sulfate ( $\text{SO}_4$ )	max. 0.005%

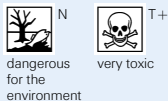
PRODUCT NO.	PACKING	CONT. BOX
1128.0500	500 g	

## Mercury(II) Chloride

1131 'BAKER ANALYZED' / ACS

▶  $\text{HgCl}_2$

**M** = 271.50 g/mol  
**CAS NO.** 7487-94-7  
**EINECS** 231-299-8  
**NC CODE** 2827 39 80  
**EC NO.** 80 010 00 0  
**UN/ID NO.** 1624  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 28-34-48/24/25-50/53  
**S:** 36/37/39-45-60-61



### Meets ACS Specifications

Assay	min. 99.5%
Iron (Fe)	max. 0.002%
Residue after Reduction	max. 0.02%
Solution in Ethyl Ether	passes test

PRODUCT NO.	PACKING	CONT. BOX
1131.0100	100 g	
1131.0500	500 g	

## Mercury(II) Iodide, Red

1133 'BAKER ANALYZED' / ACS

▶  $\text{HgI}_2$

**M** = 454.40 g/mol  
**CAS NO.** 7774-29-0  
**EINECS** 231-873-8  
**NC CODE** 2827 60 00  
**EC NO.** 80 002 00 6  
**UN/ID NO.** 1638  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 26/27/28-33-50/53  
**S:** 13-28-45-60-61



### Meets ACS Specifications

Assay	min. 99.0%
Mercurous Mercury (as Hg)	max. 0.1%
Solubility in Potassium Iodide Solution	passes test
Soluble Mercury Salts (as Hg)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1133.0100	100 g	

Questions or suggestions, please contact us at [jtbaker.nl@emea.tycohealthcare.com](mailto:jtbaker.nl@emea.tycohealthcare.com)

**Mercury(II) Nitrate Monohydrate**

'BAKER ANALYZED'

1134

<p>▶ <math>\text{Hg}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}</math></p> <p><b>M</b> = 342.62 g/mol</p> <p><b>CAS NO.</b> 10045-94-0</p> <p><b>EINECS</b> 233-152-3</p> <p><b>NC CODE</b> 2834 29 30</p> <p><b>EC NO.</b> 80 002 00 6</p> <p><b>UN/ID NO.</b> 1625</p> <p><b>ADR/RID</b> 6.1 T5</p> <p><b>IMDG</b> 6.1/II</p> <p><b>R:</b> 26/27/28-33-50/53</p> <p><b>S:</b> 13-28-45-60-61</p> <p> N dangerous for the environment</p> <p> T+ very toxic</p>	Assay	min. 99.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Chloride (Cl)	max. 0.002%	<b>NO.</b>		<b>BOX</b>
	Iron (Fe)	max. 0.001%	1134.0100	100 g	
	Mercurous Mercury (as Hg)	max. 0.1%			
	Residue after Ignition	max. 0.01%			
	Sulfate ( $\text{SO}_4$ )	max. 0.002%			

**Mercury (II) Nitrate**

0.05 mol/l / 'BAKER ANALYZED'

7252

<p>▶ <math>\text{Hg}(\text{NO}_3)_2</math></p> <p><b>M</b> = 342.62 g/mol</p> <p><b>1 l</b> = 1.00 kg</p> <p><b>NC CODE</b> 2834 29 30</p> <p><b>UN/ID NO.</b> 2024</p> <p><b>ADR/RID</b> 6.1 T4</p> <p><b>IMDG</b> 6.1/II</p> <p><b>R:</b> 23/24/25-33-52/53</p> <p><b>S:</b> 26-36/37-45</p> <p> T toxic</p>	Titer (mol/l)	0.0495-0.0505	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
			<b>NO.</b>		<b>BOX</b>
			7252.1000	1 l	

**Mercury(II) Oxide, Red**

'BAKER ANALYZED' / ACS

1136

<p>▶ <math>\text{HgO}</math></p> <p><b>M</b> = 216.59 g/mol</p> <p><b>CAS NO.</b> 21908-53-2</p> <p><b>EINECS</b> 244-654-7</p> <p><b>NC CODE</b> 2825 90 50</p> <p><b>EC NO.</b> 80 002 00 6</p> <p><b>UN/ID NO.</b> 1641</p> <p><b>ADR/RID</b> 6.1 T5</p> <p><b>IMDG</b> 6.1/II</p> <p><b>R:</b> 26/27/28-33-50/53</p> <p><b>S:</b> 13-28-45-60-61</p> <p> N dangerous for the environment</p> <p> T+ very toxic</p>	<b>Meets ACS Specifications</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Assay	min. 99.0%	<b>NO.</b>		<b>BOX</b>
	Chloride (Cl)	max. 0.025%	1136.0100	100 g	
	Insoluble in Dilute HCl	max. 0.03%			
	Iron (Fe)	max. 0.005%			
	Nitrogen Compounds (as N)	max. 0.005%			
	Residue after Reduction	max. 0.025%			
	Sulfate ( $\text{SO}_4$ )	max. 0.015%			

*Only the peaks that matter are analysed with J.T.Baker LC/MS solvents and blends!*

*Refer to LC/MS section of this catalogue for more details.*

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Mercury(II) Sulfate

1140 'BAKER ANALYZED' / ACS

▶ HgSO<sub>4</sub>

**M** = 296.65 g/mol  
**CAS NO.** 7783-35-9  
**EINECS** 231-992-5  
**NC CODE** 2833 29 70  
**EC NO.** 80 002 00 6  
**UN/ID NO.** 1645  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 26/27/28-33-50/53  
**S:** 13-28-45-60-61



### Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.003%
Iron (Fe)	max. 0.003%
Mercurous Mercury (as Hg)	max. 0.15%
Nitrate (NO <sub>3</sub> )	max. 0.005%
Residue after Reduction	max. 0.02%
Suitable for COD det. acc. NEN (max. 0.8 g Hg(II)SO <sub>4</sub> /20 ml)	passes test

PRODUCT NO.	PACKING	CONT. BOX
1140.0100	100 g	6
1140.0500	500 g	6

## Mercury(II) Sulfate

7464 200 g/l in dilute sulfuric acid / 'BAKER ANALYZED' / for the COD determination according DIN 38409-H43

**EINECS** 231-992-5  
**NC CODE** 2833 29 70  
**UN/ID NO.** 3289  
**ADR/RID** 6.1 TC3  
**IMDG** 6.1/II  
**R:** 26/27/28-33-36/38-51/53  
**S:** 28-29-36/37-45



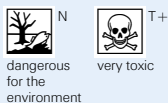
PRODUCT NO.	PACKING	CONT. BOX
7464.1000	1 l	6
7464.2500	2.5 l	

Volumetric Solution, ready for use.

## Mercury(II) Sulfate

7135 80 g/l in 0.020 mol/l K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> solution in sulfuric acid. / 'BAKER ANALYZED' / For COD determination according DIN 38409-H41.

**II** = 1.19 kg  
**CAS NO.** 7783-35-9  
**EINECS** 231-992-5  
**NC CODE** 2833 29 70  
**UN/ID NO.** 3289  
**ADR/RID** 6.1 TC3  
**IMDG** 6.1/II  
**R:** 26/27/28-33-35-43-45-46-51/53  
**S:** 26-28A-29-36/37/39-45-53



Identity (Hg <sup>+</sup> )	passes test
Molarity (K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ) (M)	0.0198-0.0202

PRODUCT NO.	PACKING	CONT. BOX
7135.1000	1 l	6
7135.2500	2.5 l	4

Volumetric Solution, ready for use.

## Mercury(II) Sulfate

7642 80 g/l in 0.04 mol/l K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> solution in sulfuric acid / 'BAKER ANALYZED' / for the COD determination according AFNOR NF T 90-101

**II** = 1.19 kg  
**CAS NO.** 7783-35-9  
**NC CODE** 2833 29 70  
**UN/ID NO.** 3289  
**ADR/RID** 6.1 TC3  
**IMDG** 6.1/II  
**R:** 26/27/28-33-35-43-46-49-51/53  
**S:** 26-28-29-36/37/39-45-53-57



Molarity (M)	0.0396 - 0.0404
--------------	-----------------

PRODUCT NO.	PACKING	CONT. BOX
7642.1000	1 l	6
7642.2500	2.5 l	4

Mercury(II)Sulfate 80 g/l in Sulfuric acid / Potassium dichromate 0.04 mol/l.

## MES Monohydrate, Free Acid

See 2-(N-Morpholino)-ethanesulfonic Acid Monohydrate

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Metaphosphoric Acid

See meta-Phosphoric Acid

## Methanal

See Formaldehyde solution

## Methanoic Acid

See Formic Acid

## Methanol

'BAKER ULTRA RESI-ANALYZED' / Absolute, suitable for Purge and Trap analysis

9077

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/25

**S:** 16-24-45-7



highly flammable



toxic

Assay (by GC) (corrected for water)	min. 99.9%
Residue after Evaporation	max. 1 ppm
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0001
Water (H <sub>2</sub> O)	max. 0.08%

**Volatile Organic Trace Analysis. Gas**

**Chromatography with Purge and Trap**

**Concentration. EPA Contract Required Quantitation**

**Limit-CRQL.:**

Electroconductivity Detection, Below CRQL	passes test
Photoionization Detection, Below CRQL	passes test

PRODUCT NO.	PACKING	CONT. BOX
9077.1000	1 l	6

## Methanol

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9263

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/25

**S:** 16-24-45-7



highly flammable



toxic

Assay (by GC) (corrected for water)	min. 99.8%
Acetone	max. 0.001%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Titration Acid (meq/g)	max.0.0003
Titration Base (meq/g)	max.0.0001
Water (H <sub>2</sub> O)	max. 0.08%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**

Single Impurity Peak (pg/ml)	max. 10
------------------------------	---------

**FID-Sensitive Impurities (as 2-Octanol):**

Single Impurity Peak (ng/ml)	max. 5
------------------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
9263.1000	1 l	6
9263.2500	2.5 l	4

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Methanol

9822 BAKER ANALYZED LC-MS Reagent

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**l** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/24/25-39/23/24/25

**S:** 16-36/37-45-7



### Certificate Provided Reporting Actual Lot Analysis

Assay (by GC)	min. 99.8%
Residue after Evaporation	max. 1 ppm
Water (H <sub>2</sub> O)	max. 0.02%

### LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1% (v/v) formic acid:

at 235 nm	max. 0.005
at 254 nm	max. 0.001

### LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:

Positive ESI-MS Sensitive Impurities (as Reserpine)	max. 50 ng/ml
---	---------------

### Product Information (not specifications):

Density (g/ml) at 20°C	0.79
------------------------	------

### Trace Impurities (in ppb):

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Sodium (Na)	max. 50

### Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm	max. 0.20
at 254 nm	max. 0.02
at 280 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9822.1000GL	1 l Glass	6

Element concentrations are at time of lot release.

## Methanol

8402 'BAKER HPLC ANALYZED' / HPLC Gradient Grade

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**l** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/24/25-39/23/24/25

**S:** 16-36/37-45-7



Assay (by GC) (corrected for water)	min. 99.8%
Acetone	max. 0.001%
Residue after Evaporation (in ppm)	max. 2
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0001
Water (H <sub>2</sub> O)	max. 0.02%

### Fluorescence Trace Impurities (as quinine base), ppb:

Measured at 450 nm	max. 0.3
Measured at Emission Maximum for Solvent Impurities	max. 1.0

### Gradient Elution Test Ultraviolet Absorbance (a.u.):

at 235 nm	max. 0.005
at 254 nm	max. 0.001

### Ultraviolet Absorbance (1.00-cm path vs water):

at 225 nm	max. 0.17
at 280 nm	max. 0.01
at 350 nm	max. 0.01
UV Cut-off, nm	max. 206

PRODUCT NO.	PACKING	CONT. BOX
8402.1000	1 l	6
8402.2500	2.5 l	4
8402.5000	5 l EcoTainer	4

Filtered through a 0.2 micron filter. Packaged under Nitrogen.

*J.T. Baker SPE and Speedisk products for separation specialists.*

*Refer to the special Chromatography section in the rear of this catalogue.*



## Methanol

'BAKER HPLC ANALYZED' / HPLC Isocratic Grade

8404

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol  
**1 l** = 0.79 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 67-56-1  
**EINECS** 200-659-6  
**NC CODE** 2905 11 00  
**EC NO.** 603 001 00 0  
**UN/ID NO.** 1230  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7



highly flammable



toxic

Assay (by GC)	min. 99.8%
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.05%
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 225 nm	max. 0.30
at 240 nm	max. 0.10
at 265 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8404.1000	1 l	6
8404.2500	2.5 l	4
8404.5000	5 l EcoTainer	4
8404.9010RC	10 l Returnable Container	
8404.9030RC	30 l Returnable Container	
8404.9200RC	200 l Returnable Container	

## Methanol

'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS

8046

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol  
**1 l** = 0.79 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 67-56-1  
**EINECS** 200-659-6  
**NC CODE** 2905 11 00  
**EC NO.** 603 001 00 0  
**UN/ID NO.** 1230  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7



highly flammable



toxic

**Exceeds ACS Specifications**

Assay (by GC)	min. 99.8%
Appearance	clear
Carbonyl Compounds	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.10%
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 205 nm	max. 1.00
at 210 nm	max. 0.80
at 220 nm	max. 0.40
at 230 nm	max. 0.20
at 240 nm	max. 0.10
at 260 nm	max. 0.04
at 280-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8046.1000	1 l	6
8046.2500	2.5 l	4

## Methanol

BakerDRY / Low Water Solvent / ACS

9097

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol  
**1 l** = 0.79 kg  
**FLASHPOINT** 11 °C  
**CAS NO.** 67-56-1  
**EINECS** 200-659-6  
**NC CODE** 2905 11 00  
**EC NO.** 603 001 00 0  
**UN/ID NO.** 1230  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7



highly flammable



toxic

**Meets ACS Specifications**

Assay (CH <sub>3</sub> OH)(by GC, corrected for water)	min. 99.8%
Appearance	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Solubility in Water	passes test
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing Permanganate	passes test
Titration Acid (μeq/g)	max. 0.3
Titration base (μeq/g)	max. 0.2
Water (by KF, coulometric)	max. 30 ppm
<b>Carbonyl Compounds:</b>	
Acetaldehyde	max. 0.001%
Acetone	max. 0.001%
Formaldehyde (HCHO)	max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
9097.1000	1 l	

## Methanol

9091 'BAKER BIO-ANALYZED' / For Biotechnology Applications

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**11** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/24/25-39/23/24/25

**S:** 16-36/37-45-7



highly flammable



toxic

Assay (CH<sub>3</sub>OH)(by GC,corrected for water) min. 99.8%

Acetone max. 0.001%

Residue after Evaporation max. 2.0 ppm

Titration Acid (meq/g) max. 0.0003

Titration Base (meq/g) max. 0.0001

Water (by KF, coulometric) max. 0.005%

**Gradient Elution Test (a.u.):**

at 254 nm max. 0.005

**Physical Data (not specifications):**

Density (g/ml) at 20°C 0.791

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 225 nm max. 0.15

at 254-400 nm max. 0.01

UV Cut-off, nm max. 205

PRODUCT NO.	PACKING	CONT. BOX
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9091.4000GL 4 l Glass

## Methanol

9049 max. 0.01% H<sub>2</sub>O / 'BAKER ANALYZED' / Dried / ACS

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**11** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/24/25-39/23/24/25

**S:** 16-36/37-45-7



highly flammable



toxic

**Exceeds ACS Specifications**

Assay min. 99.8%

Appearance clear

Carbonyl Compounds passes test

Color (APHA) max. 10

Residue after Evaporation max. 0.001%

Solubility in Water passes test

Substances Darkened by H<sub>2</sub>SO<sub>4</sub> passes test

Substances Reducing KMnO<sub>4</sub> passes test

Titration Acid (meq/g) max. 0.0003

Titration Base (meq/g) max. 0.0002

Water (H<sub>2</sub>O) max. 0.01%

**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5

Barium (Ba) max. 0.1

Boron (B) max. 0.02

Cadmium (Cd) max. 0.05

Calcium (Ca) max. 0.5

Chromium (Cr) max. 0.02

Cobalt (Co) max. 0.02

Copper (Cu) max. 0.02

Iron (Fe) max. 0.1

Lead (Pb) max. 0.1

Magnesium (Mg) max. 0.1

Manganese (Mn) max. 0.02

Nickel (Ni) max. 0.02

Tin (Sn) max. 0.1

Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
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9049.1000 1 l 6

9049.1000S 1 l EcoTainer

9049.2500 2.5 l 4

EcoTainer, the metal solvent can for more safety in the lab.

Prepare yourself for the future with J.T. Baker molecular biology and biotechnology products.

See chapter 3 of this catalogue for more details.

## Methanol

'BAKER ANALYZED' / ACS

8045

▶ CH<sub>3</sub>OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 00

EC NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

R: 11-23/24/25-39/23/24/25

S: 16-36/37-45-7



highly flammable



toxic

**Exceeds ACS Specifications**

Assay	min. 99.8%
Appearance	clear
Carbonyl Compounds	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Resistivity (megaohm-cm)	min. 0.1
Solubility in Water	passes test
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.05%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8045.1000	1 l	6
8045.2500	2.5 l	4
8045.2500PE	2.5 l HDPE	4
8045.5000	5 l EcoTainer	4
8045.9010RC	10 l Returnable Container	
8045.9025	25 l	4
8045.9030RC	30 l Returnable Container	
8045.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Methanol

'BAKER ANALYZED' / ACS, PhEur

2685

▶ CH<sub>3</sub>OH

M = 32.04 g/mol

1 l = 0.79 kg

FLASHPOINT 11 °C

CAS NO. 67-56-1

EINECS 200-659-6

NC CODE 2905 11 00

EC NO. 603 001 00 0

UN/ID NO. 1230

ADR/RID 3 FT1

IMDG 3/II

R: 11-23/24/25-39/23/24/25

S: 16-36/37-45-7



highly flammable



toxic

**Exceeds ACS Specifications. Meets Ph.Eur.****Reagent Specifications****A.C.S. Specification(s):**

Appearance	clear
Assay	min. 99.8%
Carbonyl Compounds	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Resistivity (megaohm-cm)	min. 0.1
Solubility in Water	passes test
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing KMnO <sub>4</sub>	passes test
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.05%

**Ph. Eur. Reagent Specification(s):**

Acetone, Aldehydes (as Acetone)	max. 0.001%
Appearance	passes test

PRODUCT NO.	PACKING	CONT. BOX
2685.9200ST	200 l Steel Drum	

*J.T.Baker: over 100 years of experience.*

*See chapter 1 of this catalogue.*

# Metha

## Methanol

8047 'BAKER'

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/24/25-39/23/24/25

**S:** 16-36/37-45-7



Assay	min. 99.5%
Acetone, Aldehydes (as Acetone)	max. 0.002%
Boiling Range (initial to dry point)	max. 2°C
Residue after Evaporation	max. 0.002%
Titration Acid (meq/g)	max. 0.0003
Titration Base (meq/g)	max. 0.0002
Water (H <sub>2</sub> O)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
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8047.1000	1 l	
8047.2500	2.5 l	4
8047.5000	5 l EcoTainer	
8047.9025	25 l	4
8047.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab. For safe handling of 25 l tin cans, see Self-closing tap.

## Methanol

3400 99.5% / HISTO GRADE

▶ CH<sub>3</sub>OH

**M** = 32.04 g/mol

**1 l** = 0.79 kg

**FLASHPOINT** 11 °C

**CAS NO.** 67-56-1

**EINECS** 200-659-6

**NC CODE** 2905 11 00

**EC NO.** 603 001 00 0

**UN/ID NO.** 1230

**ADR/RID** 3 FT1

**IMDG** 3/II

**R:** 11-23/24/25-39/23/24/25

**S:** 16-36/37-45-7



PRODUCT NO.	PACKING	CONT. BOX
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3400.0500PE	500 ml HDPE	
3400.5000	5 l Jerrycan	
3400.9010	10 l Jerrycan	
3400.9025	25 l Jerrycan	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Methanol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Methanol MOS, VLSI, ULSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Methenamine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## L-Methionine


See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Methotrexate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Methoxybenzene

See Anisole



# Reagents for DNA/RNA synthesis

## Major fields of application for reagents:

- Biotechnology

## We offer a complete range:

- Synthesis reagents
- DNA/RNA purification and analysis

## Synthesis reagents available

### for the following DNA/RNA Synthesizers:

- ABI series 390Z, 392, 394, 3900 and 3948
- Milligen – Biosearch System 8800
- Expedite 8905 and 8909

## We offer a complete range of

### synthesis solvents and reagents:

- Acetonitrile  
(<30 ppm bottles; <10 ppm CYCLE-TAINER System)
- Dichloromethane (< 30 ppm)
- Deblock
- Activator: besides 1H-Tetrazole we have available  
5-Ethylthio-1H-tetrazole (ETT) and  
4,5-Dicyanoimidazole (DCI)
- Capping A
- Capping B
- Oxidising

## Reagents for DNA/RNA purification and analysis

- HPLC Solvents and reagents
- BAKERBOND spe
- BAKERBOND Speedisk

## The critical flushing solvent: Acetonitrile

<i>Product Name</i>	<i>Description</i>	<i>Product Code</i>	<i>Content</i>
Acetonitrile	Acetonitrile low water in CYCLE-TAINER (< 10 ppm)	8134	20, 50, 200, 1400 L
Acetonitrile	Acetonitrile low water in bottles (< 30 ppm)	8144	2,5 and 4 L

# Metho

8084 'BAKER ANALYZED'

▶  $\text{CH}_3\text{OCH}_2\text{CH}_2\text{OH}$   
**M** = 76.10 g/mol  
**1 l** = 0.96 kg  
**FLASHPOINT** 39 °C  
**CAS NO.** 109-86-4  
**EINECS** 203-713-7  
**NC CODE** 2909 42 00  
**EC NO.** 603 011 00 4  
**UN/ID NO.** 1188  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20/21/22-60-61  
**S:** 45-53



toxic

Assay (by GC) min. 98%  
 Boiling Range 123-125°C  
 Color (APHA) max. 10  
 Density (g/ml) at 20°C 0.964-0.966  
 Peroxide passes test  
 Residue after Evaporation max. 0.002%  
 Water (H<sub>2</sub>O) max. 0.2%

**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5  
 Barium (Ba) max. 0.1  
 Boron (B) max. 0.02  
 Cadmium (Cd) max. 0.05  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.02  
 Cobalt (Co) max. 0.02  
 Copper (Cu) max. 0.02  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.2  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.02  
 Nickel (Ni) max. 0.02  
 Tin (Sn) max. 0.1  
 Zinc (Zn) max. 1.0

PRODUCT NO.	PACKING	CONT. BOX
8084.1000	1 l	6
8084.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## Methyl Alcohol

See Methanol

## Methyl Alcohol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## p-(Methylamino)phenol Sulfate

2794 'BAKER ANALYZED' / ACS

▶  $(\text{CH}_3\text{NHC}_6\text{H}_4\text{OH})_2 \cdot \text{H}_2\text{SO}_4$   
**M** = 344.39 g/mol  
**CAS NO.** 55-55-0  
**EINECS** 200-237-1  
**NC CODE** 2922 29 00  
**EC NO.** 650 031 00 4  
**UN/ID NO.** 3077  
**ADR/RID** 9 M7  
**IMDG** 9/III  
**R:** 22-43-48/22-50/53  
**S:** 36/37-46-60-61



dangerous for the environment



harmful

**Meets ACS Specifications**

Assay 99.0-101.5%  
 Residue after Ignition max. 0.1%  
 Suitability for Phopshate Determination passes test

PRODUCT NO.	PACKING	CONT. BOX
2794.0500	500 g	

## Methyl Benzoate

8123 'BAKER'

▶  $\text{C}_6\text{H}_5\text{COOCH}_3$   
**M** = 136.15 g/mol  
**1 l** = 1.09 kg  
**FLASHPOINT** 83 °C  
**CAS NO.** 93-58-3  
**EINECS** 202-259-7  
**NC CODE** 2916 31 00  
**R:** 22  
**S:** 23-24/25



harmful

Assay (by GC) min. 99%  
 Acidity (as  $\text{C}_6\text{H}_5\text{COOH}$ ) passes test  
 Boiling Range 197-200°C

PRODUCT NO.	PACKING	CONT. BOX
8123.1000	1 l	

## 2-Methylbutane

'BAKER'

8113

▶ $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)_2$	Assay (by GC)	min. 99%
<b>M</b> = 72.15 g/mol	Boiling Point	27.5-28.5°C
<b>1 l</b> = 0.62 kg	Residue after Evaporation	max. 0.005%
<b>FLASHPOINT</b> – 55 °C		
<b>CAS NO.</b> 78-78-4		
<b>EINECS</b> 201-142-8		
<b>NC CODE</b> 2901 10 00		
<b>EC NO.</b> 601 006 00 1		
<b>UN/ID NO.</b> 1265		
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/I		
<b>R:</b> 12-51/53-65-66-67		
<b>S:</b> 16-29-33-61-62-9		



PRODUCT NO.	PACKING	CONT. BOX
8113.1000	1 l	6
8113.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## 3-Methyl-1-butanol

See Isoamyl Alcohol

## Methyl tert-Butyl Ether

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9043

▶ $(\text{CH}_3)_3\text{COCH}_3$	Assay (corrected for $\text{H}_2\text{O}$ )	min. 99.0%
<b>M</b> = 88.15 g/mol	Peroxide (as $\text{H}_2\text{O}_2$ ) (in ppm)	max. 1 ppm
<b>1 l</b> = 0.74 kg	Residue after Evaporation (in ppm)	max. 2 ppm
<b>FLASHPOINT</b> – 28 °C	Water ( $\text{H}_2\text{O}$ )	max. 0.05%
<b>CAS NO.</b> 1634-04-4	<b>ECD Sensitive Impurities (as Heptachlor Epoxide):</b>	
<b>EINECS</b> 216-653-1	Single Impurities (pg/ml)	max. 10
<b>NC CODE</b> 2909 19 00	<b>FID-Sensitive Impurities (as 2-Octanol):</b>	
<b>UN/ID NO.</b> 2398	Single Impurity Peak (ng/ml)	max. 10
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/II		
<b>R:</b> 12		
<b>S:</b> 16-29-33-9		



PRODUCT NO.	PACKING	CONT. BOX
9043.1000	1 l	
9043.4000	4 l Glass	

## Methyl tert-Butyl Ether

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9042

▶ $(\text{CH}_3)_3\text{COCH}_3$	Assay	min. 99.0%
<b>M</b> = 88.15 g/mol	<b>Fluorescence Trace Impurities (as quinine base), ppb:</b>	
<b>1 l</b> = 0.74 kg	Measured at 450 nm	value on certificate
<b>FLASHPOINT</b> – 28 °C	Measured at Emission Maximum	value on certificate
<b>CAS NO.</b> 1634-04-4	<b>Maximum Limits of Impurities:</b>	
<b>EINECS</b> 216-653-1	Peroxide (as $\text{H}_2\text{O}_2$ )	1 ppm
<b>NC CODE</b> 2909 19 00	Residue after Evaporation	3 ppm
<b>UN/ID NO.</b> 2398	Water ( $\text{H}_2\text{O}$ )	0.05%
<b>ADR/RID</b> 3 F1	<b>Product Information (not specifications):</b>	
<b>IMDG</b> 3/II	Density (g/ml) at 20°C	0.740
<b>R:</b> 12	<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
<b>S:</b> 16-29-33-43A-9	at 254 nm	max. 0.1
	at 280 nm	max. 0.02
	at 350 nm	max. 0.01
	UV Cut-off, nm	max. 215



PRODUCT NO.	PACKING	CONT. BOX
9042.1000	1 l	6
9042.2500	2.5 l	4
9042.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

Packaged under Nitrogen.

## Methyl Cyanide

See Acetonitrile

# Methy

## Methylcyclohexane

8050 'BAKER ANALYZED'

▶  $\text{CH}_3\text{CH}(\text{CH}_2)_4\text{CH}_2$   
**M** = 98.19 g/mol  
**II** = 0.77 kg  
**FLASHPOINT** -4 °C  
**CAS NO.** 108-87-2  
**EINECS** 203-624-3  
**NC CODE** 2902 19 80  
**EC NO.** 601 018 00 7  
**UN/ID NO.** 2296  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-33-61-62-9



dangerous for the environment



harmful



highly flammable

Assay (by GC)	min. 99%
Identification (by IR)	passes test
Residue after Evaporation	max. 0.001%

**Product Information (not specifications):**

Boiling Point (typical)	101.0°C
Density (g/ml) at 25°C (typical)	0.765

PRODUCT NO.	PACKING	CONT. BOX
8050.0500	500 ml	

## 4-Methyl-1,3-dioxolan-2-one

See Propylene Carbonate

## N,N'-Methylenbisacrylamide

4031 'BAKER ULTRAPURE BIOAGENT'

▶  $\text{CH}_2(\text{NHCOCH}:\text{CH}_2)_2$   
**M** = 154.20 g/mol  
**CAS NO.** 110-26-9  
**EINECS** 203-750-9  
**NC CODE** 2924 19 00  
**R:** 22



harmful

**Crosslinking Agent for Polyacrylamide Gels**

Assay	min. 99.5%
Acrylic acid ( $\text{CH}_2:\text{CHCOOH}$ )	max. 0.01%
Conductivity of 2% Solution ( $\mu\text{mho}$ )	max. 10
DNAase	none detected
pH of 1% Solution at 25°C	min. 5.3
Protease	none detected
RNAase	none detected

**Absorbance of a 1% Solution (1-cm path vs water):**

at 290 nm	max. 0.2
-----------	----------

PRODUCT NO.	PACKING	CONT. BOX
4031.0025	25 g Glass	
4031.0100	100 g	

## Methylene Blue

1329 'BAKER ANALYZED'

▶  $\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S}\cdot\text{nH}_2\text{O}$   
**M** = 319.86 g/mol  
**CAS NO.** 61-73-4  
**EINECS** 200-515-2  
**NC CODE** 2934 30 90  
**R:** 22  
**S:** 22-24/25



harmful

Appearance	passes test
Solubility	passes test
Zinc (Zn)	passes test

PRODUCT NO.	PACKING	CONT. BOX
1329.0025	25 g Glass	6
1329.0100GL	100 g Glass	

## Methylenechloride

See Dichloromethane



Certificates of Analysis are available at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)



## Methyl Ethyl Ketone

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography



9214

▶ CH <sub>3</sub> CH <sub>2</sub> COCH <sub>3</sub>		Assay (by GC)	min. 99.5%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
<b>M</b> = 72.11 g/mol		Residue after Evaporation (in ppm)	max. 3	<b>NO.</b>		<b>BOX</b>
<b>1 l</b> = 0.80 kg		Water (H <sub>2</sub> O)	max. 0.03%	9214.2500	2.5 l	
<b>FLASHPOINT</b> - 1 °C		<b>Fluorescence Trace Impurities (as quinine base), ppb:</b>		Filtered through a 0.2 micron filter.		
<b>CAS NO.</b> 78-93-3		Measured at 450 nm		Information only		
<b>EINECS</b> 201-159-0		Measured at Emission Maximum for		Packaged under Nitrogen.		
<b>NC CODE</b> 2914 12 00		Solvent Impurities		Information only		
<b>EC NO.</b> 606 002 00 3		<b>Physical Data (not specifications):</b>				
<b>UN/ID NO.</b> 1193		Density (g/ml) at 20°C		0.805		
<b>ADR/RID</b> 3 F1		<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>				
<b>IMDG</b> 3/II		at 340 nm		max. 0.07		
<b>R:</b> 11-36-66-67		at 350 nm		max. 0.01		
<b>S:</b> 16-9		at 362 nm		max. 0.01		
 F		UV Cut-off, nm		max. 330		
 Xi						
highly flammable						
irritant						

## Methyl Ethyl Ketone

'BAKER ANALYZED'



8052

▶ CH <sub>3</sub> CH <sub>2</sub> COCH <sub>3</sub>		Assay (by GC)	min. 99%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
<b>M</b> = 72.11 g/mol		Acidity (as CH <sub>3</sub> COOH)	max. 0.003%	<b>NO.</b>		<b>BOX</b>
<b>1 l</b> = 0.80 kg		Boiling Range	max. 1.5°C	8052.1000	1 l	6
<b>FLASHPOINT</b> - 1 °C		Density (g/ml) at 25°C	0.797-0801	8052.2500	2.5 l	4
<b>CAS NO.</b> 78-93-3		Recorded Boiling Point	79.6°C	8052.9025	25 l	
<b>EINECS</b> 201-159-0		Residue after Evaporation	max. 0.001%	8052.9200	200 l	
<b>NC CODE</b> 2914 12 00		Water (H <sub>2</sub> O)	max. 0.2%	For safe handling of 25 l tin cans, see Self-closing tap.		
<b>EC NO.</b> 606 002 00 3		<b>Trace Impurities (in ppm):</b>				
<b>UN/ID NO.</b> 1193		Aluminium (Al)		max. 0.5		
<b>ADR/RID</b> 3 F1		Barium (Ba)		max. 0.1		
<b>IMDG</b> 3/II		Boron (B)		max. 0.02		
<b>R:</b> 11-36-66-67		Cadmium (Cd)		max. 0.05		
<b>S:</b> 16-9		Calcium (Ca)		max. 0.5		
 F		Chromium (Cr)		max. 0.02		
 Xi		Cobalt (Co)		max. 0.02		
highly flammable		Copper (Cu)		max. 0.02		
irritant		Iron (Fe)		max. 0.1		
		Lead (Pb)		max. 0.1		
		Magnesium (Mg)		max. 0.1		
		Manganese (Mn)		max. 0.02		
		Nickel (Ni)		max. 0.02		
		Tin (Sn)		max. 0.1		
		Zinc (Zn)		max. 0.1		

## Methyl Ethyl Ketone

'BAKER'

8053

▶ CH <sub>3</sub> CH <sub>2</sub> COCH <sub>3</sub>		Acidity (as CH <sub>3</sub> COOH)	max. 0.005%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
<b>M</b> = 72.11 g/mol		Boiling Range	max. 2°C	<b>NO.</b>		<b>BOX</b>
<b>1 l</b> = 0.80 kg		Density (g/ml) at 25°C	0.797-0.801	8053.1000	1 l	6
<b>FLASHPOINT</b> - 1 °C		Residue after Evaporation	max. 0.005%	8053.2500	2.5 l	
<b>CAS NO.</b> 78-93-3				8053.9025	25 l	
<b>EINECS</b> 201-159-0				8053.9200	200 l	
<b>NC CODE</b> 2914 12 00				For safe handling of 25 l tin cans, see Self-closing tap.		
<b>EC NO.</b> 606 002 00 3						
<b>UN/ID NO.</b> 1193						
<b>ADR/RID</b> 3 F1						
<b>IMDG</b> 3/II						
<b>R:</b> 11-36-66-67						
<b>S:</b> 16-9						
 F						
 Xi						
highly flammable						
irritant						

## Methyl Ethyl Ketone MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Methyl Isobutyl Ketone

4855 ULTREX Ultrapure Reagent / for Trace Metal Analysis

▶  $\text{CH}_3\text{COCH}_2\text{CH}(\text{CH}_3)_2$   
**M** = 100.16 g/mol  
**1 l** = 0.80 kg  
**FLASHPOINT** 17 °C  
**CAS NO.** 108-10-1  
**EINECS** 203-550-1  
**NC CODE** 2914 13 00  
**EC NO.** 606 004 00 4  
**UN/ID NO.** 1245  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20-36/37-66  
**S:** 16-29-9



harmful



highly flammable

### Certificate Provided Reports Actual Lot Analysis

Assay (by GC) (corrected for water)	99.0-100.0%
Density (g/ml) at 25°C	act. value reported
Residue after Evaporation	act. value reported
Titration Acid ( $\mu\text{eq/g}$ )	act. value reported
Water ( $\text{H}_2\text{O}$ )	act. value reported

### Metallic Impurities (in ppb)(ng/g):

Bismuth (Bi)	max. 1
Cadmium (Cd)	max. 1
Chromium (Cr)	max. 2
Cobalt (Co)	max. 2
Copper (Cu)	max. 1
Gallium (Ga)	max. 1
Iron (Fe)	max. 2
Lead (Pb)	max. 1
Manganese (Mn)	max. 1
Mercury (Hg)	max. 5
Molybdenum (Mo)	max. 1
Nickel (Ni)	max. 1
Silver (Ag)	max. 1
Thallium (Tl)	max. 1
Tin (Sn)	max. 1
Vanadium (V)	max. 1
Zinc (Zn)	max. 10
Zirconium (Zr)	max. 1

### Ultraviolet Absorbance (1.00-cm path vs water;

curve smooth throughout stated range with no extraneous impurity peaks):

at 335 nm	act. value reported
at 340 nm	act. value reported
at 350 nm	act. value reported
at 360 nm	act. value reported
at 380 nm	act. value reported
at 400 nm	act. value reported

### Windows of Infrared Transmittance (0.1-mm path, 50-100% T), $\mu\text{m}$ :

2.5-2.9	passes test
3.6-5.5	passes test
6.2-6.4	passes test
9.2-9.9	passes test
10.9-11.7	passes test
12.0-15.0	passes test

PRODUCT NO.	PACKING	CONT. BOX
4855.1000	1 l	

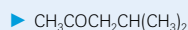
*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

## Methyl Isobutyl Ketone

PHOTREX Reagent / For Spectrophotometry / ACS

8224



**M** = 100.16 g/mol

**1 l** = 0.80 kg

**FLASHPOINT** 17 °C

**CAS NO.** 108-10-1

**EINECS** 203-550-1

**NC CODE** 2914 13 00

**EC NO.** 606 004 00 4

**UN/ID NO.** 1245

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20-36/37-66

**S:** 16-29-9



harmful



highly flammable

**Meets ACS Specifications**

Assay (by GC) (corrected for water)	min. 98.5%
Appearance	passes test
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Titration Acid (meq/g)	max. 0.002
Water (H <sub>2</sub> O)	max. 0.05%

**Product Information (not specifications):**

Boiling Point (typical)	115.5°C
Density (g/ml) at 25°C (typical)	0.796

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 335 nm	max. 1.00
at 340 nm	max. 0.50
at 350 nm	max. 0.25
at 360 nm	max. 0.15
at 380 nm	max. 0.02
at 400 nm	max. 0.01

**Windows of Infrared Transmittance (0.1-mm path,****50-100% T), μm:**

2.5-3.2	passes test
3.6-5.5	passes test
6.2-6.4	passes test
9.2-9.9	passes test
10.9-11.7	passes test
12.0-15.0	passes test

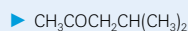
PRODUCT NO.	PACKING	CONT. BOX
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8224.0500 500 ml

## Methyl Isobutyl Ketone

'BAKER ANALYZED' / ACS

8049



**M** = 100.16 g/mol

**1 l** = 0.80 kg

**FLASHPOINT** 17 °C

**CAS NO.** 108-10-1

**EINECS** 203-550-1

**NC CODE** 2914 13 00

**EC NO.** 606 004 00 4

**UN/ID NO.** 1245

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20-36/37-66

**S:** 16-29-9



harmful



highly flammable

**Exceeds ACS Specifications**

Assay (by GC)	min. 99%
Appearance	clear
Color (APHA)	max. 15
Residue after Evaporation	max. 0.002%
Titration Acid (meq/g)	max. 0.002
Water (H <sub>2</sub> O)	max. 0.1%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

8049.1000 1 l 6  
8049.2500 2.5 l 4  
8049.5000 5 l EcoTainer  
8049.9025 25 l  
8049.9200 200 l

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Methyl Isobutyl Ketone MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Methyl Orange

0.1% in H<sub>2</sub>O / 'BAKER ANALYZED'

7136

**NC CODE** 3204 13 00

**Visual Transition Interval:**

pH 3.2	pink or red
pH 4.4	yellow

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

7136.0250 250 ml  
7136.1000 1 l

Solution, ready for use.

# Methy

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Methyl Orange Sodium Salt

1145 'BAKER ANALYZED' / ACS

▶  $4-(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{N}:\text{NC}_6\text{H}_4-4-\text{SO}_3\text{Na}$   
**M** = 327.34 g/mol  
**CAS NO.** 547-58-0  
**EINECS** 208-925-3  
**NC CODE** 2927 00 00  
**UN/ID NO.** 3143  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 25  
**S:** 22-24/25-45



### Meets ACS Specifications

Clarity of Solution	passes test
<b>Visual Transition Interval:</b>	
pH 3.2	pink or red
pH 4.4	yellow

PRODUCT NO.	PACKING	CONT. BOX
1145.0100	100 g	
C.I. 13025.		

## Methyloxirane

See Propylene Oxide

## Methylparaben

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## 4-Methyl-2-pentanone

See Methyl Isobutyl Ketone

## Methyl Phenyl Ether

See Anisole

## 2-Methyl-1-propanol

See Isobutyl Alcohol

## 1-Methyl-2-pyrrolidone

9261 'BAKER BIO-ANALYZED'

▶  $\text{C}_5\text{H}_9\text{NO}$   
**M** = 99.13 g/mol  
**II** = 1.03 kg  
**FLASHPOINT** 95 °C  
**CAS NO.** 872-50-4  
**EINECS** 212-828-1  
**NC CODE** 2933 79 00  
**EC NO.** 606 021 00 7  
**R:** 36/38  
**S:** 41



Assay ( $\text{C}_5\text{H}_9\text{NO}$ )	min. 99.5%
Color (APHA)	max. 20
Free Amines (as $\text{CH}_3\text{NH}_2$ )	max. 0.01%
Heavy Metals (as Pb)	max. 0.1 ppm
Residue after Ignition	max. 10 ppm
Water ( $\text{H}_2\text{O}$ )	max. 200 ppm
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 300 nm	max. 0.5
at 325 nm	max. 0.1
at 350 nm	max. 0.03
at 400 nm	max. 0.01
UV Cut-off, nm	max. 285

PRODUCT NO.	PACKING	CONT. BOX
9261.4000GL	4 l Glass	

## 1-Methyl-2-pyrrolidone

9345 'BAKER ANALYZED' / For peptide synthesis

▶  $\text{C}_5\text{H}_9\text{NO}$   
**M** = 99.13 g/mol  
**II** = 1.03 kg  
**FLASHPOINT** 95 °C  
**CAS NO.** 872-50-4  
**EINECS** 212-828-1  
**NC CODE** 2933 79 00  
**EC NO.** 606 021 00 7  
**R:** 36/38  
**S:** 41



Assay	min. 99.5%
Color (APHA)	max. 20
Free Amines (as $\text{CH}_3\text{NH}_2$ )	max. 0.01%
Water ( $\text{H}_2\text{O}$ )	max. 200 ppm

PRODUCT NO.	PACKING	CONT. BOX
9345.4000GL	4 l Glass	

## 1-Methyl-2-Pyrrolidone (NMP) CMOS, Finyte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Methyl Red

'BAKER ANALYZED'


1146

▶ (CH <sub>3</sub> ) <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> N:NC <sub>6</sub> H <sub>4</sub> COOH M = 269.31 g/mol CAS NO. 493-52-7 EINECS 207-776-1 NC CODE 2927 00 00	Insoluble Matter in Alcohol	passes test	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	<b>Visual Transition Interval:</b>		<b>NO.</b>		<b>BOX</b>
	pH 4.2	pink	1146.0025	25 g Glass	
	pH 6.2	yellow			C.I. 13020.

## Methyl Red

0.1% in ethanol / 'BAKER ANALYZED'

7137

1 l = 0.80 kg FLASHPOINT 11 °C NC CODE 2927 00 00 UN/ID NO. 1170 ADR/RID 3 F1 IMDG 3/II R: 11 S: 16-7/9  F highly flammable	<b>Visual Transition Interval:</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
			<b>NO.</b>		<b>BOX</b>
	pH 4.2	pink	7137.0250	250 ml	
	pH 6.2	yellow			Excluding excise.  Solution, ready for use.

## Methyl Salicylate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Methylsulfoxide

See Dimethyl Sulfoxide

## Metol

See p-(Methylamino)phenol Sulfate


## Mineral Oil

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Mixed Calibration Standard III

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6003-01

NC CODE 3822 00 00 R: 36/38 S: 26-37  Xi irritant	<b>Elemental Concent (µg/ml):</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
			<b>NO.</b>		<b>BOX</b>
	Arsenic (As)	500	6003-01	100 ml	
	Molybdenum (Mo)	100			For use in EPA SW-846 Methods 6010 and 200.7. Traceable to NIST.
	Silicon (Si)	100			

## Mixed Calibration Standard IV

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6004-01

NC CODE 3822 00 00 UN/ID NO. 3264 ADR/RID 8 C1 IMDG 8/III R: 34 S: 23-26-36/37/39-45  C corrosive	<b>Elemental Concent (µg/ml):</b>		<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
			<b>NO.</b>		<b>BOX</b>
	Aluminium (Al)	200	6004-01	100 ml	
	Calcium (Ca)	1000			For use in EPA SW-846 Methods 6010 and 200.7. Traceable to NIST.
	Chromium (Cr)	20			
	Nickel (Ni)	20			
	Potassium (K)	400			
	Sodium (Na)	200			

*Innovation is principal to our business.*

# Mixed

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## 6005-01 Mixed Calibration Standard V

Matrix: 5% HNO<sub>3</sub> and a trace of tartaric acid / 'BAKER INSTRA-ANALYZED' / Plasma Standard

**NC CODE** 3822 00 00  
**UN/ID NO.** 3264  
**ADR/RID** 8 C1  
**IMDG** 8/III  
**R:** 34  
**S:** 23-26-36/37/39-45



Elemental Concent (µg/ml):	
Antimony (Sb)	200
Boron (B)	100
Magnesium (Mg)	1000
Silver (Ag)	50
Thallium (Tl)	200

PRODUCT NO.	PACKING	CONT. BOX
6005-01	100 ml	

For use in EPA SW-846 Methods 6010 and 200.7.  
 Traceable to NIST.

## Mohr's Salt

See Ammonium Iron (II) Sulfate Hexahydrate

## 1569 Molecular Sieve 3Å

8-12 mesh / 'BAKER ANALYZED'

**NC CODE** 3824 90 15      Loss on Drying at 300°C      max. 5%

PRODUCT NO.	PACKING	CONT. BOX
1569.1000	1 kg	

## 0810 Molecular Sieve 4Å

8-12 mesh / 'BAKER ANALYZED'

**NC CODE** 3824 90 15      Loss on Drying at 300°C      max. 5%

PRODUCT NO.	PACKING	CONT. BOX
0810.1000	1 kg	

Activated.

## 5769 Molybdenum 1000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Mo  
**M** = 95.94 g/mol  
**NC CODE** 3822 00 00

**Certificate Provided Reporting Actual Lot Analysis**  
 Molybdenum (Mo)      998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5769.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.  
 The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## 6935 Molybdenum 1000 µg/ml

(Matrix 2% ammonium hydroxide) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Mo  
**M** = 95.94 g/mol  
**NC CODE** 3822 00 00

Molybdenum (Mo)      998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6935.0100	100 ml	
6935.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## 6818 Molybdenum 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Mo  
**M** = 95.94 g/mol  
**NC CODE** 3822 00 00

Molybdenum (Mo)      998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6818.0100	100 ml	
6818.0500	500 ml	

Ammonium heptamolybdate in ammoniumhydroxide 0.5 mol/l.

## Molybdenum 10000 µg/ml

(Matrix: 4% Ammonium Hydroxide) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5737

▶ Mo

**M** = 95.94 g/mol  
**NC CODE** 3822 00 00

### Certificate Provided Reporting Actual Lot Analysis

Molybdenum (Mo) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5737.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Molybdic Acid

powder / 'BAKER ANALYZED' / ACS

0176

**CAS NO.** 7782-91-4  
**EINECS** 231-970-5  
**NC CODE** 2825 70 00  
**UN/ID NO.** 3288  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 36/37-48/20/22  
**S:** 22-25



harmful

### Meets ACS Specifications

Assay (as MoO <sub>3</sub> )	min. 85.0%
Arsenate, Phosphate and Silicate (as SiO <sub>2</sub> )	max. 0.001%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.003%
Insoluble in Dilute NH <sub>4</sub> OH	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.2%
<b>Trace Impurities (in ppm):</b>	
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0176.0250	250 g	

Molybdic Acid Reagent is commonly known as Molybdic Acid 85% and consists largely of ammonium molybdate.

## Monochloroacetic Acid

See Chloroacetic Acid

## Monochlorobenzene

See Chlorobenzene

## Monoethanolamine

See Ethanolamine

## 3-(4-Morpholine)propanesulfonic acid, sodium salt

See MOPS, Sodium salt

## 2-(N-Morpholino)-ethanesulfonic Acid Monohydrate

crystalline / 'BAKER ULTRAPURE BIOREAGENT'

4014

▶ CH2CH2OCH2CH2NCH2CH2SO3H.H2O

**M** = 213.25 g/mol  
**CAS NO.** 4432-31-9  
**EINECS** 224-632-3  
**NC CODE** 2934 90 96

### Buffer for Liquid Chromatography and other Molecular Biology Applications

Assay	min. 98%
Appearance	passes test
Colour of a 1M Alkaline Solution	passes test
DNase Activity	none detected
Identification (by IR)	passes test
Loss on Drying at 130°C	7-10%
Protease Activity	none detected
RNase Activity	none detected

### Product Information (not specifications):

pKa at 20°C 6.15

### Trace Impurities (in ppm):

Heavy Metals (as Pb) max. 2

PRODUCT NO.	PACKING	CONT. BOX
4014.0020	20 g	
4014.0200	200 g	
4014.1000	1 kg	

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Morpholinopropane Sulfonicacid

4004 'BAKER ULTRAPURE BIOREAGENT'

▶ $C_7H_{15}NO_4S$	Assay (dried basis)	min. 99%
<b>M</b> = 209.26 g/mol	Appearance	passes test
<b>CAS NO.</b> 1132-61-2	DNase Activity	none detected
<b>EINECS</b> 214-478-5	Loss on Drying	max. 1%
<b>NC CODE</b> 2934 99 90	pH of 1% Solution at 25°C	2.5-4.5
	Protease Activity	none detected
	RNase Activity	none detected
	Solution (10% in water)	passes test
	<b>Absorbance of a 0.1M Solution (1-cm path vs water):</b>	
	at 260 nm	max. 0.02
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4004.0100	100 g	
4004.0500	500 g	
4004.2500	2.5 kg	

## MOPS, Sodium salt

4163 'BAKER ULTRAPURE BIOREAGENT'

▶ $C_7H_{14}NNaO_4S$	Assay (dried basis)	min. 99.0%
<b>M</b> = 231.25 g/mol	Appearance	passes test
<b>CAS NO.</b> 7119-22-7	DNase Activity	none detected
<b>NC CODE</b> 2934 99 90	Heavy Metals (as Pb)	max. 5 ppm
	Identification (by IR)	passes test
	Insoluble Matter	max. 1.0%
	Loss on Drying	max. 1.0%
	pH of 0.1 M Solution at 25°C	10.0-11.0
	Protease Activity	none detected
	RNase Activity	none detected
	Solubility	passes test
	<b>Absorbance of a 0.1 M Solution, Maximum (1-cm path vs water):</b>	
	at 260 nm	max. 0.03
	<b>Product Information (not specifications):</b>	
	pKa at 20°C	7.20

PRODUCT NO.	PACKING	CONT. BOX
4163.0025	25 g Glass	
4163.0100	100 g	
4163.2500	2.5 kg	

### MOS chemicals

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Mounting medium

See UltraKitt

### MountingClear

3904 HISTO GRADE

<b>1 l</b> = 0.69 kg
<b>FLASHPOINT</b> - 12 °C
<b>CAS NO.</b> 540-84-1
<b>NC CODE</b> 2901 10 00
<b>EC NO.</b> 601 009 00 8
<b>UN/ID NO.</b> 1262
<b>ADR/RID</b> 3 F1
<b>IMDG</b> 3/II
<b>R:</b> 11-38-50/53-65-67
<b>S:</b> 16-29-33-9

*Intended for use as a Alcohol-Mountant intermediate during coverslipping in Histology and Cytology*

Aromates (by UV)	not detected
Assay (by GC)(2,2,4 Trimethylpentane)	min. 90% (w/w)
Color (APHA)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
3904.2500	2.5 l Glass	



### Multicompential Products

See for detailed information section Pharmaceutical Products, page 36

### Multi-Element CCV Solution I & II

See CCV Solution I & II



**Multi-Element ICS Solution AB-1&AB-2**

See ICS Solution AB-1 & AB-2



**Multi-Element ICV Solution I & II**

See ICV Solution I & II



**Multi-Element Interference Check Standard I**

See Interference Check Standard I



**Multi Element Interference Check Standard II**

See Interference Check Standard II



**Multi-Element Interference Check Standard IV**

See Interference Check Standard IV



**Multi-Element Mixed Calibration Standard III**

See Mixed Calibration Standard III



**Multi-Element Mixed Calibration Standard IV**

See Mixed Calibration Standard IV



**Multi-Element Mixed Calibration Standard V**

See Mixed Calibration Standard V



**Multi-Element Primary Drinking Water Std I**

See Primary Drinking Water Standard I



**Multi-Element Trace Metal Standard I**

See Trace Metal Standard I



**Multi-Element Trace metal Standard III**

See Trace Metal Standard III



**Multi-Element Water Standard I & II**

See Water Standard I & II



**Murexide**

'BAKER ANALYZED'

1149

<p>▶ <math>C_8H_8N_6O_6 \cdot H_2O</math></p> <p><b>M</b> = 302.22 g/mol</p> <p><b>CAS NO.</b> 3051-09-0</p> <p><b>EINECS</b> 221-266-6</p> <p><b>NC CODE</b> 2933 54 00</p>	Sensitivity as Indicator	passes test	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			1149.0025	25 g Glass	

**1-Naphthol**

'BAKER ANALYZED'

1150

<p>▶ <math>C_{10}H_7OH</math></p> <p><b>M</b> = 144.17 g/mol</p> <p><b>CAS NO.</b> 90-15-3</p> <p><b>EINECS</b> 201-969-4</p> <p><b>NC CODE</b> 2907 15 10</p> <p><b>EC NO.</b> 604 029 00 5</p> <p><b>R:</b> 21/22-37/38-41</p> <p><b>S:</b> 22-26-37/39</p>	Assay	min. 99%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Melting Point	93-96°C	1150.0100	100 g	
	Residue after Ignition	max. 1%			



harmful

1341

## N-(1-Naphthyl) Ethylenediamine Dihydrochloride

'BAKER ANALYZED' / For Nitrogen Dioxide Determination (ASTM D-1607) / ACS

▶ C<sub>10</sub>H<sub>7</sub>NHCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>·2HCl

M = 259.18 g/mol

CAS NO. 1465-25-4

EINECS 215-981-2

NC CODE 2921 59 90

R: 36/38

S: 24/25-26



**Meets ACS Specifications. Meets Reagent**

**Specifications for testing USP/NF monographs**

Sensitivity for Sulfanilamide passes test

Solubility passes test

Suitability for Nitrogen Dioxide

Determination (ASTM D1607) passes test

Water (H<sub>2</sub>O) max. 5%

PRODUCT NO.	PACKING	CONT. BOX
1341.0025	25 g Glass	

Marshall's Reagent.



## Neocuproine Hydrochloride

See 2,9-Dimethyl-1,10 phenanthroline Hydrochloride



## Niacin

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

5770

## Nickel 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ni

M = 58.69 g/mol

NC CODE 3822 00 00

EC NO. 7 004 00 1

R: 36/37/38

S: 26-37



**Certificate Provided Reporting Actual Lot Analysis**

Nickel (Ni) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5770.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml.

The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

6936

## Nickel 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ni

M = 58.69 g/mol

NC CODE 3822 00 00

EC NO. 7 004 00 1

R: 36/38

S: 26-37



Nickel (Ni) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6936.0100	100 ml	
6936.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

6819

## Nickel 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ni

M = 58.69 g/mol

NC CODE 3822 00 00

EC NO. 7 004 00 1

R: 36/38

S: 26-37



Nickel (Ni) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6819.0100	100 ml	
6819.0500	500 ml	

Nickel nitrate in nitric acid 0.5 mol/l.

*Innovation is principal to our business.*

### Nickel 10000 µg/ml

1.00% (w/v) / (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5738

▶ Ni

**M** = 58.69 g/mol  
**NC CODE** 3822 00 00  
**EC NO.** 7 004 00 1  
**R:** 36/38  
**S:** 26



#### Certificate Provided Reporting Actual Lot Analysis

Nickel (Ni) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5738.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Nickel(II) Acetate 4-hydrate

'BAKER ANALYZED'

0179

▶ (CH<sub>3</sub>COO)<sub>2</sub>Ni·4H<sub>2</sub>O

**M** = 248.86 g/mol  
**CAS NO.** 373-02-4  
**EINECS** 206-761-7  
**NC CODE** 2915 29 00  
**R:** 22  
**S:** 24



Assay (by EDTA titrn.)	min. 97.0%
Chloride (Cl)	max. 0.001%
Cobalt (Co)	max. 0.2%
Copper (Cu)	max. 0.01%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.005%
Nitrogen Compounds (as N)	max. 0.005%
pH of 5% Solution at 25°C	6.0-7.0
Sulfate (SO <sub>4</sub> )	max. 0.005%
Zinc (Zn)	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0179.9050	50 g	

### Nickel(II) Carbonate

'BAKER ANALYZED'

0181

**CAS NO.** 3333-67-3  
**EINECS** 222-068-2  
**NC CODE** 2836 99 18  
**EC NO.** 28 010 00 0  
**R:** 22-40-43-50/53  
**S:** 22-36/37-60-61



Assay (as Ni) (by EDTA titrn.)	min. 45.0%
Chloride (Cl)	max. 0.002%
Cobalt (Co) (by AAS)	max. 0.1%
Copper (Cu) (by AAS)	max. 0.01%
Insoluble in HCl	max. 0.01%
Iron (Fe) (by AAS)	max. 0.004%
Lead (Pb) (by AAS)	max. 0.002%
Nitrogen Compounds (as N)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.01%
Zinc (Zn) (by AAS)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0181.0500	500 g	

### Nickel(II) Chloride Hexahydrate

'BAKER ANALYZED'

0182

▶ NiCl<sub>2</sub>·6H<sub>2</sub>O

**M** = 237.71 g/mol  
**CAS NO.** 7791-20-0  
**EINECS** 231-743-0  
**NC CODE** 2827 35 00  
**UN/ID NO.** 3288  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 23/24/25E-45  
**S:** 22-36/37-44



Assay (by EDTA titrn.)	min. 97.0%
Barium (Ba)	max. 0.005%
Calcium (Ca)	max. 0.005%
Cobalt (Co)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.001%
Magnesium (Mg)	max. 0.005%
Nitrogen Compounds (as N)	max. 0.005%
pH of 5% Solution at 25°C	4.0-7.0
Potassium (K)	max. 0.001%
Sodium (Na)	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0182.9050	50 kg	

#### Trace Impurities (in ppm):

Copper (Cu)	max. 5
Lithium (Li)	max. 1
Zinc (Zn)	max. 50

# Nicke

## Nickel(II) Chloride Hexahydrate

0183 'BAKER'

▶ NiCl<sub>2</sub>·6H<sub>2</sub>O

**M** = 237.71 g/mol  
**CAS NO.** 7791-20-0  
**EINECS** 231-743-0  
**NC CODE** 2827 35 00  
**UN/ID NO.** 3288  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 23/24/25E-45  
**S:** 22-36/37-44



Assay (by EDTA titrn.) min. 96%  
 Insoluble Substances max. 0.01%  
 Lead (Pb) max. 0.01%  
 pH of 5% Solution at 25°C 3.0-7.0

PRODUCT NO.	PACKING	CONT. BOX
0183.2500	2.5 kg	

## Nickel(II) Nitrate Hexahydrate

0184 'BAKER ANALYZED'

▶ Ni(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O

**M** = 290.81 g/mol  
**CAS NO.** 13478-00-7  
**EINECS** 236-068-5  
**NC CODE** 2834 29 20  
**UN/ID NO.** 2725  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 22-43-8  
**S:** 24-36/37



Assay (by EDTA titrn.) min. 99.0%  
 Ammonium (NH<sub>4</sub>) max. 0.05%  
 Chloride (Cl) max. 0.001%  
 Cobalt (Co) (by AAS) max. 0.05%  
 Insoluble Matter max. 0.005%  
 Iron (Fe) (by AAS) max. 0.001%  
 Lead (Pb) (by AAS) max. 0.002%  
 pH of 5% Solution at 25°C 3.5-5.5  
 Sulfate (SO<sub>4</sub>) max. 0.003%  
 Zinc (Zn) (by AAS) max. 0.01%  
**Trace Impurities (in ppm):**  
 Copper (Cu) (by AAS) max. 5

PRODUCT NO.	PACKING	CONT. BOX
0184.0500	500 g	

## Nickel(II) Oxide Green

1153 Powder / 'BAKER ANALYZED'

▶ NiO

**M** = 74.71 g/mol  
**CAS NO.** 1313-99-1  
**EINECS** 215-215-7  
**NC CODE** 2825 40 00  
**EC NO.** 28 003 00 2  
**R:** 43-49-53  
**S:** 45-53-61



Assay (by EDTA titrn.) min. 99.0%  
 Aluminium (Al) max. 0.005%  
 Average Particle Diameter, µm (APD) (by Sedigraph)(typical) max. 3  
 Calcium (Ca) max. 0.005%  
 Chloride (Cl) max. 0.001%  
 Cobalt (Co) max. 0.2%  
 Copper (Cu) max. 0.005%  
 Iron (Fe) max. 0.01%  
 Lead (Pb) max. 0.01%  
 Nitrogen Compounds (as N) max. 0.005%  
 Potassium (K) max. 0.005%  
 Silicon (Si) max. 0.01%  
 Sodium (Na) max. 0.02%  
 Total Sulfur (S) max. 0.01%  
 Zinc (Zn) max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
1153.2500	2.5 kg	

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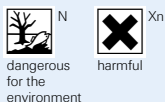
## Nickel(II) Sulfate Hexahydrate

'BAKER ANALYZED' / ACS

0185

▶ NiSO<sub>4</sub>·6H<sub>2</sub>O

**M** = 262.86 g/mol  
**CAS NO.** 10101-97-0  
**EINECS** 232-104-9  
**NC CODE** 2833 24 00  
**EC NO.** 28 009 00 5  
**R:** 22-40-42/43-50/53  
**S:** 22-36/37-60-61



### Exceeds ACS Specifications

Assay	98.0-102.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Cobalt (Co)	max. 0.002%
Copper (Cu)	max. 0.005%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Lithium (Li)	max. 1 ppm
Magnesium (Mg)	max. 0.005%
Manganese (Mn)	max. 0.002%
Nitrogen Compounds (as N)	max. 0.002%
pH of 5% Solution at 25°C	3.0-5.0
Potassium (K)	max. 0.001%
Sodium (Na)	max. 0.01%
Zinc (Zn)	max. 50 ppm

PRODUCT NO.	PACKING	CONT. BOX
0185.0250	250 g	
0185.1000	1 kg	

## Niobium 1000 µg/ml

(Matrix: H<sub>2</sub>O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5771

▶ Nb

**M** = 92.91 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/21/22-36  
**S:** 26-36/37



### Certificate Provided Reporting Actual Lot Analysis

Niobium (Nb)	998-1002 µg/ml
--------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
5771.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Niobium 10000 µg/ml

1.00% (w/v) / (Matrix: H<sub>2</sub>O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5760

▶ Nb

**M** = 92.91 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/21/22-36  
**S:** 26-36/37



### Certificate Provided Reporting Actual Lot Analysis

Niobium (Nb)	9980-10020 µg/ml
--------------	------------------

PRODUCT NO.	PACKING	CONT. BOX
5760.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

*The J.T.Baker CYCLE-TAINER  
 High Purity Solvent Delivery System,  
 preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

## Nitric Acid

6901 70% / ULTREX II Ultrapure Reagent

▶ HNO<sub>3</sub>

**M** = 63.01 g/mol

**1 l** = 1.41 kg

**CAS NO.** 7697-37-2

**EINECS** 231-714-2

**NC CODE** 2808 00 00

**EC NO.** 7 004 00 1

**UN/ID NO.** 2031

**ADR/RID** 8 CO1

**IMDG** 8/II

**R:** 35

**S:** 23-26-36-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

Assay 67-70% (w/w)

#### Trace Impurities (in ppt) (µg/g):

Aluminium (Al)	max. 20
Antimony (Sb)	max. 10
Arsenic (As)	max. 20
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 20
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 20
Cobalt (Co)	max. 10
Copper (Cu)	max. 20
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 20
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 50
Niobium (Nb)	max. 1
Palladium (Pd)	max. 20
Platinum (Pt)	max. 20

Potassium (K)	max. 10
Praseodymium (Pr)	max. 1
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 20
Samarium (Sm)	max. 1
Scandium (Sc)	max. 10
Selenium (Se)	act. value reported
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 1
Terbium (Tb)	max. 1
Thallium (Tl)	max. 10
Thorium (Th)	max. 1
Thulium (Tm)	max. 1
Tin (Sn)	max. 20
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Uranium (U)	max. 1
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 1
Yttrium (Y)	max. 1
Zinc (Zn)	max. 20
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6901.0500	500 ml Fluoropolymer, pre-leached	
6901.1000	1 l Fluoropolymer, pre-leached	
6901.2000	2 l Fluoropolymer, pre-leached	

### Nitric Acid 70% CMOS, Finyte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Nitric Acid

69.0-70.0 % / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis / ACS

9598

▶ HNO<sub>3</sub>

**M** = 63.01 g/mol

**1 l** = 1.42 kg

**CAS NO.** 7697-37-2

**EINECS** 231-714-2

**NC CODE** 2808 00 00

**EC NO.** 7 004 00 1

**UN/ID NO.** 2031

**ADR/RID** 8 CO1

**IMDG** 8/II

**R:** 35

**S:** 23-26-36-45



corrosive

### Meets ACS Specifications

Assay	69.0-70.0%
Appearance	passes test
Color (APHA)	max. 10
Residue after Ignition	max. 2 ppm
Specific Gravity at 60°/60°F	1.416-1.420

### Trace Impurities (in ppb):

Aluminium (Al)	max. 30
Arsenic and Antimony (as As)	max. 5
Barium (Ba)	max. 1
Beryllium (Be)	max. 1
Bismuth (Bi)	max. 1
Boron (B)	max. 4
Cadmium (Cd)	max. 1
Calcium (Ca)	max. 50
Chromium (Cr)	max. 10
Cobalt (Co)	max. 1
Copper (Cu)	max. 1
Gallium (Ga)	max. 20
Germanium (Ge)	max. 4
Gold (Au)	max. 4
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 10
Lead (Pb)	max. 0.5
Lithium (Li)	max. 1
Magnesium (Mg)	max. 7
Manganese (Mn)	max. 1
Mercury (Hg)	max. 0.5
Molybdenum (Mo)	max. 5
Nickel (Ni)	max. 1
Niobium (Nb)	max. 1
Potassium (K)	max. 5
Silicon (Si)	max. 20
Silver (Ag)	max. 1
Sodium (Na)	max. 200
Strontium (Sr)	max. 1
Tantalum (Ta)	max. 2
Thallium (Tl)	max. 5
Tin (Sn)	max. 5
Vanadium (V)	max. 1
Zinc (Zn)	max. 5

Zirconium (Zr) max. 1

### Trace Impurities (in ppm):

Chloride (Cl)	max. 0.04
Phosphate (PO <sub>4</sub> )	max. 0.1
Sulfate (SO <sub>4</sub> )	max. 0.4

PRODUCT NO.	PACKING	CONT. BOX
9598.0500	500 ml	6
9598.2500	2.5 l	4

*Use J.T.Baker Ultrex II  
and BAKER INSTRA-ANALYZED acids  
for low level trace element analysis.*

*See chapter 3 of this catalogue for more details.*

## Nitric Acid

6019 69.0-70.0 % / 'BAKER ANALYZED' / ACS

▶ HNO<sub>3</sub>

**M** = 63.01 g/mol

**1 l** = 1.42 kg

**CAS NO.** 7697-37-2

**EINECS** 231-714-2

**NC CODE** 2808 00 00

**EC NO.** 7 004 00 1

**UN/ID NO.** 2031

**ADR/RID** 8 CO1

**IMDG** 8/II

**R:** 35

**S:** 23-26-36-45



corrosive

**Meets ACS Specifications. Meets Reagent**

**Specifications for testing USP/NF monographs**

Assay	69.0-70.0%
Appearance	passes test
Color (APHA)	max. 10
Residue after Ignition	max. 4 ppm
Specific Gravity at 60°/60°F	1.416 - 1.420

**Trace Impurities (in ppb):**

Aluminium (Al)	max. 100
Arsenic and Antimony (as As)	max. 4
Boron (B)	max. 50
Calcium (Ca)	max. 200
Chromium (Cr)	max. 100
Copper (Cu)	max. 50
Gold (Au)	max. 200
Heavy Metals (as Pb)	max. 100
Iron (Fe)	max. 100
Lead (Pb)	max. 100
Magnesium (Mg)	max. 100
Manganese (Mn)	max. 100
Mercury (Hg)	max. 5
Nickel (Ni)	max. 50
Potassium (K)	max. 300
Tin (Sn)	max. 200
Titanium (Ti)	max. 200
Zinc (Zn)	max. 200

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 0.1
Phosphate (PO <sub>4</sub> )	max. 0.2
Sulfate (SO <sub>4</sub> )	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
6019.2500	2.5 l	4
6019.2500PE	2.5 l HDPE	4

▶ **Nitric Acid, 69.0-70.0%**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*



## Nitric Acid

65% (max. 5 ppb Hg) / 'BAKER ANALYZED'

6080

▶ HNO<sub>3</sub>

**M** = 63.01 g/mol  
**1 l** = 1.40 kg  
**CAS NO.** 7697-37-2  
**EINECS** 231-714-2  
**NC CODE** 2808 00 00  
**EC NO.** 7 004 00 1  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**IMDG** 8/II  
**R:** 35  
**S:** 23-26-36/37/39-45



corrosive

Assay	min. 65%
Chloride (Cl)	max. 0.5 ppm
Dithizone determination	passes test
Mercury (Hg)	max. 5 ppb
Residue after Ignition	max. 5 ppm
Sulfate (SO <sub>4</sub> )	max. 1 ppm

## Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6080.1000	1 l	6
6080.2500	2.5 l	4
6080.2500PE	2.5 l HDPE	4
6080.9025	25 l	

## Nitric Acid 65% CM05, Finyte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Nitric Acid

2 mol/l / 'BAKER ANALYZED'

7119

▶ HNO<sub>3</sub>

**M** = 63.01 g/mol  
**CAS NO.** 7697-37-2  
**EINECS** 231-714-2  
**NC CODE** 2808 00 00  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**R:** 34  
**S:** 26-36/39-45



corrosive

Titer (mol/l) 1.995 - 2.005

PRODUCT NO.	PACKING	CONT. BOX
7119.1000	1 l	6
7119.5000	5 l	
7119.9020	20 l	

Volumetric Solution, ready for use.

Find more Chromatography information  
at [www.jtbaker.com/chromatography](http://www.jtbaker.com/chromatography)

## Nitric Acid

7622 1 mol/l / 'BAKER ANALYZED'

▶ HNO<sub>3</sub> Titer (mol/l) 0.995-1.005

**M** = 63.01 g/mol  
**CAS NO.** 7697-37-2  
**EINECS** 231-714-2  
**NC CODE** 2808 00 00  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**IMDG** 8/II  
**R:** 34  
**S:** 26-36/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
7622.5000	5 l HDPE	
7622.9020	20 l Polycube	

Volumetric Solution, ready for use.

## Nitric Acid

4868 1 mol/l / DILUT-IT

**1 l** = 1.38 kg  
**NC CODE** 2808 00 00  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**IMDG** 8/II  
**R:** 35  
**S:** 23A-26-36/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4868	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Nitric Acid

4712 0.1 mol/l / DILUT-IT

▶ HNO<sub>3</sub> Titer (mol/l) 0.995-1.005

**M** = 63.01 g/mol  
**CAS NO.** 7697-37-2  
**EINECS** 231-714-2  
**NC CODE** 2808 00 00  
**EC NO.** 7 004 00 1  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**IMDG** 8/II  
**R:** 34  
**S:** 23-26-36-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4712	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## p-Nitrophenylphosphate, Disodium Salt

3351 'BAKER ANALYZED'

▶ NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OPO<sub>3</sub>Na<sub>2</sub>·6H<sub>2</sub>O Assay about 70%

**M** = 371.15 g/mol Free p-nitrophenol max. 0.07%  
**CAS NO.** 4264-83-9  
**EINECS** 224-246-5  
**NC CODE** 2919 00 90

PRODUCT NO.	PACKING	CONT. BOX
3351.0005	5 g	
3351.0025	25 g Glass	

Find our up-to-date Product Literature  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## n-Nonane

'BAKER'

8280

		Assay (by GC)	min. 99%	PRODUCT	PACKING	CONT.
		Boiling Point	150-151°C	NO.		BOX
▶ $\text{CH}_3(\text{CH}_2)_7\text{CH}_3$		Density (g/ml) at 20°C	0.717-0.718	8280.2500	2.5 l	
<b>M</b> =	128.26 g/mol					
<b>II</b> =	0.72 kg					
<b>FLASHPOINT</b>	31 °C					
<b>CAS NO.</b>	111-84-2					
<b>EINECS</b>	203-913-4					
<b>NC CODE</b>	2901 10 00					
<b>UN/ID NO.</b>	1920					
<b>ADR/RID</b>	3 F1					
<b>IMDG</b>	3/III					
<b>R:</b>	10-51/53					
<b>S:</b>	16-61					

## Octadecanoic Acid

See Stearic Acid

## cis-9-Octadecenoic Acid

See Oleic Acid

## iso-Octane

See 2,2,4-Trimethylpentane

## n-Octane

'BAKER ANALYZED'

8159

		Assay (by GC)	min. 98%	PRODUCT	PACKING	CONT.
		Boiling Point	125-126°C	NO.		BOX
▶ $\text{CH}_3(\text{CH}_2)_6\text{CH}_3$				8159.0500	500 ml	
<b>M</b> =	114.23 g/mol					
<b>II</b> =	0.70 kg					
<b>FLASHPOINT</b>	12 °C					
<b>CAS NO.</b>	111-65-9					
<b>EINECS</b>	203-892-1					
<b>NC CODE</b>	2901 10 00					
<b>EC NO.</b>	601 009 00 8					
<b>UN/ID NO.</b>	1262					
<b>ADR/RID</b>	3 F1					
<b>IMDG</b>	3/II					
<b>R:</b>	11-38-50/53-65-67					
<b>S:</b>	16-29-33-60-61-62-9					

## 1-Octanesulfonic Acid Sodium Salt

'BAKER ANALYZED'

2818

		<i>For Ion-Pair Chromatography</i>		PRODUCT	PACKING	CONT.
		Assay (acidimetric)	min. 98.0%	NO.		BOX
▶ $\text{CH}_3(\text{CH}_2)_7\text{SO}_3\text{Na}$		<b>UV Absorbance of 0.25M Solution:</b>		2818.0025	25 g Glass	
<b>M</b> =	216.27 g/mol	at 200 nm	max. 0.10			
<b>CAS NO.</b>	5324-84-5	at 210 nm	max. 0.05			
<b>EINECS</b>	226-195-4	at 220 nm	max. 0.04			
<b>NC CODE</b>	2904 10 00	at 230 nm	max. 0.03			
<b>R:</b>	36/38	at 240 nm	max. 0.02			
<b>S:</b>	26	at 250 nm	max. 0.02			
		at 260 nm	max. 0.02			

# Octan

## 1-Octanol

7060 'BAKER ANALYZED'

▶  $\text{CH}_3(\text{CH}_2)_6\text{CH}_2\text{OH}$   
**M** = 130.23 g/mol  
**II** = 0.82 kg  
**FLASHPOINT** 81 °C  
**CAS NO.** 111-87-5  
**EINECS** 203-917-6  
**NC CODE** 2905 16 80  
**R:** 36/38  
**S:** 23



Assay (by GC) min. 99%  
 Boiling Range 193-195°C  
 Density (g/ml) at 20°C 0.824-0.825  
 Water (H<sub>2</sub>O) max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
7060.1000	1 l	
7060.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

## 2-Octanol

7059 'BAKER'

▶  $\text{CH}_3(\text{CH}_2)_5\text{CHOHCH}_3$   
**M** = 130.23 g/mol  
**II** = 0.82 kg  
**FLASHPOINT** 74 °C  
**CAS NO.** 123-96-6  
**EINECS** 204-667-0  
**NC CODE** 2905 16 20  
**R:** 36/38  
**S:** 23



Boiling Point 178-181°C  
 Density (g/ml) at 25°C 0.812-0.818

PRODUCT NO.	PACKING	CONT. BOX
7059.0100	100 ml	
7059.1000	1 l	

## Oil of Cedarwood

See Cedarwood Oil

## Oleic Acid

6035 'BAKER'

▶  $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$   
**M** = 282.47 g/mol  
**II** = 0.89 kg  
**FLASHPOINT** 189 °C  
**CAS NO.** 112-80-1  
**EINECS** 204-007-1  
**NC CODE** 2916 15 00

Acid Value 196-204  
 Congealing Temperature max. 10°C  
 Iodine Value 85-95  
 Mineral Acids passes test  
 Neutral Fat or Mineral Oil passes test  
 Residue on Ignition max. 0.01%  
 Specific Gravity 0.889-0.895

PRODUCT NO.	PACKING	CONT. BOX
6035.1000	1 l	

## Oleic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Oleic Acid Sodium Salt

See Sodium Oleate

## Orange G

4425 'BAKER ANALYZED' / Certified Stain

▶  $\text{C}_{16}\text{H}_{10}\text{N}_2\text{Na}_2\text{O}_7\text{S}_2$   
**M** = 452.38 g/mol  
**CAS NO.** 1936-15-8  
**EINECS** 217-705-6  
**NC CODE** 3204 12 00

**Certified for Use in Histology (C.I. 16230)**  
 Absorbance at maximum (3.0 mg/200 ml in H<sub>2</sub>O, 1-cm path) act. value reported  
 Absorbance Maximum, nm act. value reported  
 Biological Test passes test  
 Total Dye Content act. value reported

PRODUCT NO.	PACKING	CONT. BOX
4425.0025	25 g Glass	

Certified by the Biological Stain Commission.

## Orange III

See Methyl Orange Sodium Salt

## Orthoperiodic Acid

See Periodic Acid

## Orthophosphoric Acid

See Phosphoric Acid

## Oxalic Acid

0.05 mol/l 0.1N / 'BAKER ANALYZED'

7141

EINECS 205-634-3  
NC CODE 2917 11 00

Titer (mol/l) 0.0497-0.0503

PRODUCT NO.	PACKING	CONT. BOX
7141.1000	1 l	
7141.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Oxalic Acid

0.05 mol/l / DILUT-IT / 1/10 equiv. = 4.502g; 0.1 N

4665

▶ HOCOCOOH

M = 90.04 g/mol  
EINECS 205-634-3  
NC CODE 2917 11 00

PRODUCT NO.	PACKING	CONT. BOX
4665	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Oxalic Acid Dihydrate

'BAKER ANALYZED' / ACS

0187

▶ HOCOCOOH.2H<sub>2</sub>O

M = 126.07 g/mol  
CAS NO. 6153-56-6  
EINECS 205-634-3  
NC CODE 2917 11 00  
EC NO. 607 006 00 8  
R: 21/22  
S: 24/25



harmful

### Exceeds ACS Specifications

Assay	99.5-102.5%
Insoluble Matter	max. 0.005%
Nitrogen Compounds (as N)	max. 0.001%
Residue after Ignition	max. 0.01%
Substances Darkened by Hot H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfate (SO <sub>4</sub> )	max. 0.002%

### Trace Impurities (in ppm):

Calcium (Ca)	max. 5
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0187.1000	1 kg	6
0187.9025	25 kg	

## Oxidizing (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9488

FLASHPOINT -14 °C  
NC CODE 3822 00 00  
UN/ID NO. 1993  
ADR/RID 3 F1

IMDG 3/II

R: 11-19-20/21/22-36/37  
S: 16-23-25-36/37-9



harmful



highly flammable

### Suitable for Oligonucleotide Synthesis

Assay Pyridine	18.5-21.0% (v/v)
Molarity (Iodine)	0.018-0.022

PRODUCT NO.	PACKING	CONT. BOX
9488.0200	200 ml Glass	
9488.0450	450 ml Glass	
9488.2000	2 l Glass	
9488.2500	2.5 l Glass	

## Oxidizing (ABI)

'BAKER ANALYZED' / for DNA/RNA synthesis

9519

FLASHPOINT -21 °C  
NC CODE 3822 00 00  
UN/ID NO. 1993  
ADR/RID 3.3b

IMDG 3.1/II

R: 11-19-36/37  
S: 16-26-33-9



highly flammable



irritant

### Suitable for Oligonucleotide Synthesis

Assay Iodine (g/l)	3.87 - 4.73
Assay Iodine (mol/l)	0.015 - 0.019

PRODUCT NO.	PACKING	CONT. BOX
9519.0200	200 ml Glass	
9519.0450	450 ml Glass	
9519.0900	900 ml Glass	

# Oxidi

## Oxidizing reagents for use in DNA synthesis

See for detailed information section Reagents for DNA/RNA Synthesis, page 261

## Oxidizing reagents for use in DNA/RNA synthesis

See for detailed information section Reagents for DNA/RNA Synthesis, page 261

### 2,2'-Oxydiethanol

8564 'BAKER'

▶ HOCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OH  
**M** = 106.12 g/mol  
**11** = 1.11 kg  
**FLASHPOINT** 124 °C  
**CAS NO.** 111-46-6  
**EINECS** 203-872-2  
**NC CODE** 2909 41 00

Boiling Point 242-250°C

PRODUCT NO.	PACKING	CONT. BOX
8564.2500	2.5 l	

### Packaging Options

See for detailed information section Packaging Options, page 12

### Palladium 1000 µg/ml

5772 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Pd  
**M** = 106.42 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



**Certificate Provided Reporting Actual Lot Analysis**  
 Palladium (Pd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5772.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Palladium 1000 µg/ml

6953 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Pd  
**M** = 106.42 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



Palladium (Pd) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6953.0100	100 ml	
6953.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Palladium 10000 µg/ml

5739 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Pd  
**M** = 106.42 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



**Certificate Provided Reporting Actual Lot Analysis**  
 Palladium (Pd) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5739.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### PAN

1156 Powder / 'BAKER ANALYZED'

▶ C<sub>5</sub>H<sub>4</sub>NN:NC<sub>10</sub>H<sub>6</sub>OH  
**M** = 249.28 g/mol  
**CAS NO.** 85-85-8  
**EINECS** 201-637-9  
**NC CODE** 2933 39 95

Sensitivity as Indicator passes test

PRODUCT NO.	PACKING	CONT. BOX
1156.0001	1 g	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Pancreatin**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**Papanicolaou solution 2a, Orange G solution OG6**

Cytology

3864

**FLASHPOINT** 12 °C  
**NC CODE** 2207 10 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-20/21/22-68/20/21/22  
**S:** 16-36/37-7/9



*Staining solution used in the Papanicolaou procedure. For cytological cancer and cycle diagnosis*

PRODUCT NO.	PACKING	CONT. BOX
3864.1000	1 l Glass	
3864.2500	2.5 l Glass	

**Papanicolaou 2a Orange G**

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

**Papanicolaou solution 2b, Orange II solution**

Cytology

3865

**FLASHPOINT** 12 °C  
**NC CODE** 2207 10 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-20/21/22-68/20/21/22  
**S:** 16-36/37-7/9



*Staining solution used in the Papanicolaou procedure. For cytological cancer and cycle diagnosis*

PRODUCT NO.	PACKING	CONT. BOX
3865.1000	1 l Glass	
3865.2500	2.5 l Glass	
Excluding excise.		

**Papanicolaou 2b Orange II**

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

**Papanicolaou solution 3b, Polychrome solution EA 50**

Cytology

3866

**FLASHPOINT** 12 °C  
**NC CODE** 2207 10 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-23/24/25-39/23/24/25  
**S:** 16-36/37-45-7/9



*Staining solution used in the Papanicolaou procedure. For cytological cancer and cycle diagnosis*

PRODUCT NO.	PACKING	CONT. BOX
3866.1000	1 l Glass	
3866.2500	2.5 l Glass	

**Papanicolaou 3b Polychrome Solution**

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

**Paraffin**

Liquid / 'BAKER'

7160

**1 l =** 0.88 kg  
**FLASHPOINT** 199 °C  
**CAS NO.** 8012-95-1  
**EINECS** 232-384-2  
**NC CODE** 2712 20 10

Color (APHA) max. 20  
 Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
7160.1000	1 l	6
7160.5000	5 l EcoTainer	
7160.9200	200 l	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Paraffin

9513 Pellets / 'BAKER'

<b>CAS NO.</b> 8002-74-2	Melting Point	52-54°C	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>EINECS</b> 232-315-6			9513.1000	1 kg	
<b>NC CODE</b> 2712 20 10			9513.9025	25 kg	

## Paraffin Cleaner

3451 HISTO GRADE

<b>FLASHPOINT</b> 57 °C	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>NC CODE</b> 3822 00 00	3451.1500	125 ml glass x 12	
<b>UN/ID NO.</b> 1993			
<b>ADR/RID</b> 3 F1			
<b>IMDG</b> 3/III			
<b>R:</b> 41-65-67			
<b>S:</b> 16-23-26-39			
Xn harmful			

## ▶ Paraffin for Histology

See UltraPar (54-56°C)

## ▶ Paraffin pellets for Histology

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

## Paraformaldehyde

1157 'BAKER'

▶ (CH <sub>2</sub> O) <sub>n</sub>	Assay	min. 95%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 30.03 g/mol	Reaction	passes test	1157.1000	1 kg	
<b>FLASHPOINT</b> 70 °C	Residue after Ignition	max. 0.1%			
<b>CAS NO.</b> 30525-89-4	Solubility in Ammonium Hydroxide	passes test			
<b>EINECS</b> 200-001-8					
<b>NC CODE</b> 2912 60 00					
<b>UN/ID NO.</b> 2213					
<b>ADR/RID</b> 4.1 F1					
<b>IMDG</b> 4.1/III					
<b>R:</b> 20/22-36/37/38-40-43					
<b>S:</b> 22-26-36/37					
Xn harmful					

## Pentane

8239 Mixed Isomers / 'BAKER'

▶ C <sub>5</sub> H <sub>12</sub>	Boiling Range	34-37°C	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 72.15 g/mol			8239.2500	2.5 l	
<b>1 l</b> = 0.62 kg			8239.9200	200 l	
<b>FLASHPOINT</b> -40 °C					
<b>CAS NO.</b> 109-66-0					
<b>EINECS</b> 203-692-4					
<b>NC CODE</b> 2901 10 00					
<b>EC NO.</b> 601 006 00 1					
<b>UN/ID NO.</b> 1265					
<b>ADR/RID</b> 3 F1					
<b>IMDG</b> 3/I					
<b>R:</b> 12-51/53-65-66-67					
<b>S:</b> 16-29-33-61-62-9					
N dangerous for the environment	F+ extremely flammable	Xn harmful			

## ▶ iso-Pentane

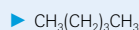
See 2-Methylbutane



## n-Pentane

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9333



M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -40 °C

CAS NO. 109-66-0

EINECS 203-692-4

NC CODE 2901 10 00

EC NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

R: 12-51/53-65-66-67

S: 16-29-33-61-62-9

dangerous  
for the  
environmentextremely  
flammable

harmful

Assay (by GC) (corrected for water)	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Water (by KF, coulometric)	max. 100 ppm

**Neat Solvent Front Characterization:**

ECD-Sensitive Impurities (as Ethylene Dibromide) Single Impurity Peak (ng/ml)	max. 5
---	--------

**Trace Organic Residues:**

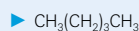
ECD-Sensitive Impurities (as Heptachlor Epoxide) Single Impurity Peak (pg/ml)	max. 10
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/ml)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
9333.1000	1 l	6
9333.4000	4 l Glass	4

## n-Pentane

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9331



M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -40 °C

CAS NO. 109-66-0

EINECS 203-692-4

NC CODE 2901 10 00

EC NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

R: 12-51/53-65-66-67

S: 16-29-33-61-62-9

dangerous  
for the  
environmentextremely  
flammable

harmful

Assay (by GC)	min. 98.0%
Residue after Evaporation (in ppm)	max. 2
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Water ( $\text{H}_2\text{O}$ )	max. 0.01%

**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm	max. 0.5
Measured at Emission Maximum for Solvent Impurities	max. 1.5

**Physical Data (not specifications):**

Density (g/ml) at 20°C 0.626

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 210 nm	max. 0.4
at 220 nm	max. 0.10
at 254 nm	max. 0.01
at 280 nm	max. 0.01
UV Cut-off, nm	max. 190

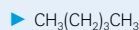
PRODUCT NO.	PACKING	CONT. BOX
9331.1000	1 l	
9331.2500	2.5 l	4

Filtered through a 0.2 micron filter.  
Packaged under Nitrogen.

## n-Pentane

'BAKER ANALYZED' / Ultraviolet Spectrophotometry

8287



M = 72.15 g/mol

1 l = 0.62 kg

FLASHPOINT -40 °C

CAS NO. 109-66-0

EINECS 203-692-4

NC CODE 2901 10 00

EC NO. 601 006 00 1

UN/ID NO. 1265

ADR/RID 3 F1

IMDG 3/I

R: 12-51/53-65-66-67

S: 16-29-33-61-62-9

dangerous  
for the  
environmentextremely  
flammable

harmful

Assay (by GC)	min. 99%
Residue after Evaporation	max. 5 ppm
Water ( $\text{H}_2\text{O}$ )	max. 0.01%

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 205 nm	max. 1.00
at 210 nm	max. 0.30
at 220 nm	max. 0.10
at 245-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8287.1000	1 l	

## 8114 'BAKER ANALYZED' n-Pentane

▶  $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$   
**M** = 72.15 g/mol  
**1 l** = 0.62 kg  
**FLASHPOINT** -40 °C  
**CAS NO.** 109-66-0  
**EINECS** 203-692-4  
**NC CODE** 2901 10 00  
**EC NO.** 601 006 00 1  
**UN/ID NO.** 1265  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-51/53-65-66-67  
**S:** 16-29-33-61-62-9



Assay (by GC) min. 99%  
 Boiling Range 35-37°C  
 Density (g/ml) at 20°C 0.624-0.626  
 Residue after Evaporation max. 0.001%  
 Sulfur Compounds (as S) max. 0.005%  
 Water ( $\text{H}_2\text{O}$ ) max. 0.01%

### Trace Impurities (in ppm):

Aluminium (Al) max. 0.5  
 Barium (Ba) max. 0.1  
 Boron (B) max. 0.02  
 Cadmium (Cd) max. 0.05  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.02  
 Cobalt (Co) max. 0.02  
 Copper (Cu) max. 0.02  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.1  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.02  
 Nickel (Ni) max. 0.02  
 Tin (Sn) max. 0.1  
 Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8114.1000	1 l	6
8114.2500	2.5 l	4
8114.5000	5 l EcoTainer	
8114.9025	25 l	
8114.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
 For safe handling of 25 l tin cans, see Self-closing tap.

## 8685 'BAKER' n-Pentane

▶  $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$   
**M** = 72.15 g/mol  
**1 l** = 0.62 kg  
**FLASHPOINT** -40 °C  
**CAS NO.** 109-66-0  
**EINECS** 203-692-4  
**NC CODE** 2901 10 00  
**EC NO.** 601 006 00 1  
**UN/ID NO.** 1265  
**ADR/RID** 3 F1  
**IMDG** 3/I  
**R:** 12-51/53-65-66-67  
**S:** 16-29-33-61-62-9



Assay (by GC) min. 95%  
 Residue after Evaporation max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
8685.2500	2.5 l	4
8685.9200	200 l	

## 2841 'BAKER HPLC ANALYZED' 1-Pentanesulfonic Acid Sodium Salt Monohydrate

▶  $\text{CH}_3(\text{CH}_2)_4\text{SO}_3\text{Na}\cdot\text{H}_2\text{O}$   
**M** = 220.26 g/mol  
**CAS NO.** 22767-49-3  
**EINECS** 245-208-4  
**NC CODE** 2904 10 00

**For Ion-Pair Chromatography of Basic Compounds**  
 Assay (acidimetric) min. 98.0%  
**UV Absorbance of 0.25M Solution:**  
 at 200 nm max. 0.2  
 at 210 nm max. 0.08  
 at 220 nm max. 0.06  
 at 230 nm max. 0.05  
 at 240 nm max. 0.05  
 at 250 nm max. 0.05

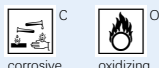
PRODUCT NO.	PACKING	CONT. BOX
2841.0025	25 g Glass	
2841.0100	100 g	

## ▶ 1-Pentanol See n-Amyl Alcohol

## Perchloric Acid

70% / ULTREX II Ultrapure Reagent

4806

▶ HClO<sub>4</sub>**M** = 100.46 g/mol**1 l** = 1.67 kg**CAS NO.** 7601-90-3**EINECS** 231-512-4**NC CODE** 2811 19 80**EC NO.** 17 006 00 4**UN/ID NO.** 1873**ADR/RID** 5.1 CO1**IMDG** 5.1/I**R:** 35-5-8**S:** 23-26-36-45**Certificate Provided Reporting Actual Lot Analysis**

Assay 65-71%

**Trace Impurities (in ppt) (µg/g):**

Aluminium (Al)	max. 100
Antimony (Sb)	max. 100
Arsenic (As)	max. 100
Barium (Ba)	max. 100
Beryllium (Be)	max. 100
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 100
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Cobalt (Co)	max. 100
Copper (Cu)	max. 100
Dysprosium (Dy)	max. 10
Erbium (Er)	max. 10
Europium (Eu)	max. 10
Gadolinium (Gd)	max. 10
Gallium (Ga)	max. 10
Hafnium (Hf)	act. value reported
Holmium (Ho)	max. 10
Indium (In)	max. 10
Iron (Fe)	max. 100
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 100
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 100
Manganese (Mn)	max. 100
Molybdenum (Mo)	max. 100
Neodymium (Nd)	max. 10
Nickel (Ni)	max. 100
Niobium (Nb)	act. value reported
Palladium (Pd)	max. 10
Platinum (Pt)	max. 100
Potassium (K)	max. 100
Praseodymium (Pr)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Samarium (Sm)	max. 10

Scandium (Sc)	max. 100
Silver (Ag)	max. 100
Sodium (Na)	max. 100
Strontium (Sr)	max. 100
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 10
Terbium (Tb)	max. 10
Thallium (Tl)	max. 100
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 100
Titanium (Ti)	max. 100
Tungsten (W)	act. value reported
Uranium (U)	max. 10
Vanadium (V)	max. 100
Ytterbium (Yb)	max. 10
Yttrium (Y)	max. 10
Zinc (Zn)	max. 100
Zirconium (Zr)	max. 100

PRODUCT NO.	PACKING	CONT. BOX
4806.0500	500 ml	

*The J.T.Baker CYCLE-TAINER  
High Purity Solvent Delivery System,  
preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

## Perchloric Acid

6022 70-72% / 'BAKER ANALYZED' / ACS

▶ HClO<sub>4</sub>

**M** = 100.46 g/mol

**1 l** = 1.67 kg

**CAS NO.** 7601-90-3

**EINECS** 231-512-4

**NC CODE** 2811 19 80

**EC NO.** 17 006 00 4

**UN/ID NO.** 1873

**ADR/RID** 5.1 OC1

**IMDG** 5.1/I

**R:** 35-5-8

**S:** 23-26-36-45



corrosive



oxidizing

### Exceeds ACS Specifications

Assay	70.0-72.0%
Chloride (Cl)	max. 0.0003%
Color (APHA)	max. 10
Free Chlorine	max. 5 ppm
Insoluble in Ethanol	max. 0.001%
Nitrogen Compounds (as N)	max. 0.001%
Residue after Ignition	max. 0.003%
Silicate and Phosphate (as SiO <sub>2</sub> )	max. 5 ppm
Sulfate (SO <sub>4</sub> )	max. 0.001%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.3
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.10
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6022.1000GL	1 l Glass	6
6022.2500	2.5 l	4

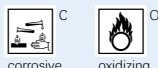
*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Perchloric Acid

69-72 % / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis / ACS

9653

▶ HClO<sub>4</sub>**M** = 100.46 g/mol**1 l** = 1.67 kg**CAS NO.** 7601-90-3**EINECS** 231-512-4**NC CODE** 2811 19 80**EC NO.** 17 006 00 4**UN/ID NO.** 1873**ADR/RID** 5.1 CO1**IMDG** 5.1/I**R:** 35-5-8**S:** 23-26-36-45**Meets ACS Specifications**

Assay	69.0-72.0%
Color (APHA)	max. 10
Manganese (Mn) (by AAS)	max. 0.005 ppm
Residue after Ignition	max. 10 ppm

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.05
Barium (Ba)	max. 0.1
Cadmium (Cd)	max. 0.005
Calcium (Ca)	max. 1
Chloride (Cl)	max. 10
Chromium (Cr)	max. 0.05
Cobalt (Co)	max. 0.005
Copper (Cu)	max. 0.05
Heavy Metals (as Pb)	max. 0.1
Iron (Fe)	max. 0.05
Lead (Pb)	max. 0.01
Lithium (Li)	max. 0.1
Magnesium (Mg)	max. 0.05
Mercury (Hg)	max. 0.005
Nickel (Ni)	max. 0.005
Nitrogen Compounds (as N)	max. 10
Potassium (K)	max. 0.5
Silicate and Phosphate (as SiO <sub>2</sub> )	max. 5
Silicon (Si)	max. 0.1
Silver (Ag)	max. 0.005
Sodium (Na)	max. 1
Strontium (Sr)	max. 0.02
Sulfate (SO <sub>4</sub> )	max. 10
Tin (Sn)	max. 0.01
Zinc (Zn)	max. 0.05

PRODUCT NO.	PACKING	CONT. BOX
9653.0500	500 ml	6

*Use J.T.Baker Ultrex II  
and BAKER INSTRA-ANALYZED acids  
for low level trace element analysis.*

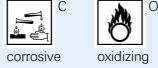
*See chapter 3 of this catalogue for more details.*

## Perchloric Acid

6023 60-62% / 'BAKER ANALYZED' / ACS

▶ HClO<sub>4</sub>

**M** = 100.46 g/mol  
**1 l** = 1.54 kg  
**CAS NO.** 7601-90-3  
**EINECS** 231-512-4  
**NC CODE** 2811 19 80  
**EC NO.** 17 006 00 4  
**UN/ID NO.** 1873  
**ADR/RID** 5.1 CO1  
**IMDG** 5.1/I  
**R:** 35-5-8  
**S:** 23-26-36-45



### Exceeds ACS Specifications

Assay	60.0-62.0%
Chloride (Cl)	max. 0.001%
Color (APHA)	max. 10
Nitrogen Compounds (as N)	max. 0.001%
Residue after Ignition	max. 0.003%
Silicate and Phosphate (as SiO <sub>2</sub> )	max. 5 ppm
Sulfate (SO <sub>4</sub> )	max. 0.001%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.3
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.10
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6023.1000	1 l	6
6023.2500	2.5 l	4

## Perchloric acid in anhydrous acetic acid

7221 0.5 mol/l / 'BAKER ANALYZED'

**NC CODE** 3822 00 00  
**UN/ID NO.** 2789  
**ADR/RID** 8 CF1  
**IMDG** 8/II  
**R:** 10-35  
**S:** 23-26



Titer (mol/l) 0.49-0.51

PRODUCT NO.	PACKING	CONT. BOX
7221.1000	1 l	

Volumetric Solution, ready for use.

## Perchloric acid in anhydrous acetic acid

7142 0.1 mol/l / 'BAKER ANALYZED'

**NC CODE** 3822 00 00  
**UN/ID NO.** 2789  
**ADR/RID** 8 CF1  
**IMDG** 8/II  
**R:** 10-35  
**S:** 23-26



Titer (mol/l) 0.098-0.102

PRODUCT NO.	PACKING	CONT. BOX
7142.1000	1 l	6

Volumetric Solution, ready for use.

## ▶ Perchloroethylene

See Tetrachloroethylene

## Periodic Acid

'BAKER ANALYZED'

1366

▶ H<sub>5</sub>IO<sub>6</sub>

**M** = 227.94 g/mol  
**CAS NO.** 10450-60-9  
**EINECS** 233-937-0  
**NC CODE** 2811 19 80  
**UN/ID NO.** 3085  
**ADR/RID** 5.1 OC2  
**IMDG** 5.1/I  
**R:** 34-8  
**S:** 26-36/37/39-45



Assay	min. 99.5%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.001%
Residue after Ignition	max. 0.5%
Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1366.0025	25 g Glass	
1366.0100	100 g	

## Petroleum Ether

20-40°C / 'BAKER ANALYZED'

9272

**1 l** = 0.59 kg  
**FLASHPOINT** - 50 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 12-51/53-65  
**S:** 16-29-33-9



Acidity	passes test
Appearance and Color	passes test
Boiling Range	20-40°C
Heavy Oils and Fats	passes test
Odor (faint)	passes test
Residue after Evaporation	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
9272.4000S	4 l Safetainer	

## Petroleum Ether

30-60°C / 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

9265

**1 l** = 0.64 kg  
**FLASHPOINT** - 57 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-61-62-9



Boiling Range (initial to dry point)	30-60°C
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Water (by KF, coulometric)	max. 0.05%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**

Single Impurity Peak (pg/ml) max. 10

**FID-Sensitive Impurities (as 2-Octanol):**

Single Impurity Peak (ng/ml) max. 5

**Neat solvent front characterization: ECD-Sensitive Impurities (as Ethylene Dibromide):**

Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9265.1000	1 l	
9265.2500	2.5 l	4

## Petroleum Ether

30-60°C / 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination

9266

**1 l** = 0.64 kg  
**FLASHPOINT** - 57 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-61-62-9



Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Water (H <sub>2</sub> O)	max. 0.05%

**Hydrocarbon oil index concentration (as RIVM oil reference standard):**Total peaks between n-decane (C<sub>10</sub>H<sub>22</sub>) and n-tetracontane (C<sub>40</sub>H<sub>82</sub>) max. 0.5 mg/l

PRODUCT NO.	PACKING	CONT. BOX
9266.2500	2.5 l	

Suitable for determination of Hydrocarbon Oil Index according to ISO 9377-2 and NEN 5733.

## Petroleum Ether

9270 35-60°C / 'BAKER ANALYZED' / Ultraviolet Spectrophotometry

1 l = 0.64 kg  
**FLASHPOINT** -57 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-61-62-9

N  
 Xn  
 F

dangerous for the environment  
harmful  
highly flammable

Acidity passes test  
Boiling Range 35-60°C  
Color (APHA) max. 10  
Residue after Evaporation max. 0.001%

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 220 nm max. 1.0  
at 230 nm max. 0.20  
at 250 nm max. 0.05  
at 270 nm max. 0.01  
at 400 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9270.1000	1 l	
9270.4000	4 l Glass	

## Petroleum Ether

8115 40-65°C / 'BAKER ANALYZED'

1 l = 0.64 kg  
**FLASHPOINT** -60 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-61-62-9

N  
 Xn  
 F

dangerous for the environment  
harmful  
highly flammable

Boiling Range 40-65°C  
Residue after Evaporation max. 0.001%  
Water (H<sub>2</sub>O) max. 0.02%

**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5  
Barium (Ba) max. 0.1  
Boron (B) max. 0.02  
Cadmium (Cd) max. 0.05  
Calcium (Ca) max. 0.5  
Chromium (Cr) max. 0.02  
Cobalt (Co) max. 0.02  
Copper (Cu) max. 0.02  
Iron (Fe) max. 0.1  
Lead (Pb) max. 0.1  
Magnesium (Mg) max. 0.1  
Manganese (Mn) max. 0.02  
Nickel (Ni) max. 0.02  
Tin (Sn) max. 0.1  
Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8115.1000	1 l	
8115.5000	5 l EcoTainer	
8115.9025	25 l	
8115.9030RC	30 l Returnable Container	
8115.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Petroleum Ether

8240 40-65°C / 'BAKER'

1 l = 0.64 kg  
**FLASHPOINT** -60 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-61-62-9

N  
 Xn  
 F

dangerous for the environment  
harmful  
highly flammable

Appearance passes test  
Residue after Evaporation max. 0.002%  
Appearance at 0°C passes test  
Distillation Range 40-65°C

PRODUCT NO.	PACKING	CONT. BOX
8240.1000	1 l	
8240.5000	5 l EcoTainer	
8240.9025	25 l	
8240.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.



### Petroleum Ether

60-100°C / 'BAKER ANALYZED'

8116

1 l = 0.67 kg  
**FLASHPOINT** -32 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-57-60-9



dangerous for the environment



harmful



highly flammable

Boiling Range 60-100°C  
 Residue after Evaporation max. 0.001%  
 Water (H<sub>2</sub>O) max. 0.02%

**Trace Impurities (in ppm):**

Aluminium (Al) max. 0.5  
 Barium (Ba) max. 0.1  
 Boron (B) max. 0.02  
 Cadmium (Cd) max. 0.05  
 Calcium (Ca) max. 0.5  
 Chromium (Cr) max. 0.02  
 Cobalt (Co) max. 0.02  
 Copper (Cu) max. 0.02  
 Iron (Fe) max. 0.1  
 Lead (Pb) max. 0.1  
 Magnesium (Mg) max. 0.1  
 Manganese (Mn) max. 0.02  
 Nickel (Ni) max. 0.02  
 Tin (Sn) max. 0.1  
 Zinc (Zn) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
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8116.1000	1 l	
8116.5000	5 l EcoTainer	
8116.9025	25 l	

EcoTainer, the metal solvent can for more safety in the lab.  
 For safe handling of 25 l tin cans, see Self-closing tap.

### Petroleum Ether

60-100°C / 'BAKER'

8241

1 l = 0.67 kg  
**FLASHPOINT** -32 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-57-60-9



dangerous for the environment



harmful



highly flammable

Boiling Range 60-100°C  
 Residue after Evaporation max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

8241.9025	25 l	
8241.9200	200 l	

For safe handling of 25 l tin cans, see Self-closing tap.

### Petroleum Ether

80-110°C / 'BAKER'

8242

1 l = 0.70 kg  
**FLASHPOINT** -5 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-57-60-61-9



dangerous for the environment



harmful



highly flammable

Boiling Range 80-110°C  
 Residue after Evaporation max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
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8242.1000	1 l	
8242.9025	25 l	

*Innovation is principal to our business.*

## Petroleum Ether

8243 100-140°C / 'BAKER'

1 l = 0.73 kg  
**FLASHPOINT** 0 °C  
**CAS NO.** 8032-32-4  
**EINECS** 232-453-7  
**NC CODE** 2710 11 21  
**UN/ID NO.** 1268  
**ADR/RID** 3 F1  
**IMDG** 3/II

**R:** 11-38-51/53-65-67  
**S:** 16-23-24-29-33-57-60-9



**Boiling Range** 100-140°C  
**Residue after Evaporation** max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
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8243.1000	1 l	
8243.5000	5 l EcoTainer	
8243.9025	25 l	
8243.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
 For safe handling of 25 l tin cans, see Self-closing tap.

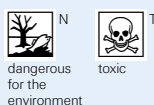
## Pharmaceutical Products

See for detailed information section [Pharmaceutical Products](#), page 36

## 1,10-Phenanthroline monohydrate

1158 'BAKER ANALYZED' / ACS

▶  $C_{12}H_8N_2 \cdot H_2O$   
**M** = 198.23 g/mol  
**CAS NO.** 66-71-7  
**EINECS** 200-629-2  
**NC CODE** 2933 99 90  
**EC NO.** 613 092 00 8  
**UN/ID NO.** 2811  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 25-50/53  
**S:** 45-60-61



**Meets ACS Specifications**  
 Suitability as Redox Indicator passes test  
 Suitability for determining Iron passes test

PRODUCT NO.	PACKING	CONT. BOX
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1158.0005	5 g	6
1158.0025	25 g Glass	

## 1,10-Phenanthroline-Iron(II) Salt Solution

See Ferroin Solution 1/40 M

## 1,10-Phenanthroline Chloride 1aq

1368 'BAKER ANALYZED'

▶  $C_{12}H_8N_2 \cdot HCl \cdot H_2O$   
**M** = 234.69 g/mol  
**CAS NO.** 3829-86-5  
**EINECS** 223-325-1  
**NC CODE** 2933 99 90  
**UN/ID NO.** 2811  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 25  
**S:** 45



**Assay** min. 99%  
**Residue after Ignition** max. 0.05%  
 Suitability as Redox Indicator passes test  
 Suitability for determining Iron passes test  
**Water (H<sub>2</sub>O)** about 9%

PRODUCT NO.	PACKING	CONT. BOX
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1368.0005	5 g	
1368.0025	25 g Glass	

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## Phenol

white fused crystal / 'BAKER ULTRAPURE BIOREAGENT'

4056

▶ C<sub>6</sub>H<sub>5</sub>OH

M = 94.11 g/mol

FLASHPOINT 79 °C

CAS NO. 108-95-2

EINECS 203-632-7

NC CODE 2907 11 00

EC NO. 604 001 00 2

UN/ID NO. 1671

ADR/RID 6.1 T2

IMDG 6.1/II

R: 24/25-34

S: 28-45



toxic

**Contains no preservative****Suitable for Extraction of Nucleic Acids:**

Appearance	passes test
Assay	min. 99%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Melting Point	39-41°C.
pH (saturated)	4.5-6.0
RNase Activity	none detected
Water (H <sub>2</sub> O)	max. 0.4%

PRODUCT NO.	PACKING	CONT. BOX
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4056.0100 100 g

4056.0500 500 g

## Phenol

crystal / 'BAKER ANALYZED' / ACS

0188

▶ C<sub>6</sub>H<sub>5</sub>OH

M = 94.11 g/mol

FLASHPOINT 79 °C

CAS NO. 108-95-2

EINECS 203-632-7

NC CODE 2907 11 00

EC NO. 604 001 00 2

UN/ID NO. 1671

ADR/RID 6.1 T2

IMDG 6.1/II

R: 23/24/25-34-48/20/21/22-68

S: 24/25-26-28C-36/37/39-45



corrosive



toxic

**Exceeds ACS Specifications**

Assay (by GC)	min. 99.0%
Clarity of Solution	passes test
Freezing Point	min. 40.5°C, dry basis
Residue after Evaporation	max. 0.03%
Water (H <sub>2</sub> O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
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0188.0500 500 g

0188.1000 1 kg 6

## Phenol

crystal / 'BAKER'

0505

▶ C<sub>6</sub>H<sub>5</sub>OH

M = 94.11 g/mol

FLASHPOINT 79 °C

CAS NO. 108-95-2

EINECS 203-632-7

NC CODE 2907 11 00

EC NO. 604 001 00 2

UN/ID NO. 1671

ADR/RID 6.1 T2

IMDG 6.1/II

R: 23/24/25-34-48/20/21/22-68

S: 24/25-26-28C-36/37/39-45



corrosive



toxic

Assay	99.0-100.5%
Acidity	passes test
Appearance of solution	passes test
Freezing Point	min. 39.5°C
Identification	passes test
Residue on Evaporation	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

0505.1000 1 kg 6

0505.9025 25 kg

Stored in an airtight container.  
Stored protected from light.

Mallinckrodt Baker's chemistry  
is Part of a pure process™.

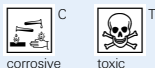
A  
B  
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M  
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P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

# Pheno

## Phenol

1480 liquefied / 'BAKER ANALYZED'

▶ $C_6H_5OH$	Assay ( $C_6H_5OH$ )	min. 89.0%
<b>M</b> = 94.11 g/mol	Appearance	passes test
<b>1 l</b> = 1.10 kg	Residue after Evaporation	max. 0.05%
<b>FLASHPOINT</b> 79 °C	Solubility and Reaction	passes test
<b>CAS NO.</b> 108-95-2	Suitability for Amino Acid Determination	passes test
<b>EINECS</b> 203-632-7	Water ( $H_2O$ )	act. value reported
<b>NC CODE</b> 2907 11 00		
<b>EC NO.</b> 604 001 00 2		
<b>UN/ID NO.</b> 2821		
<b>ADR/RID</b> 6.1 T2		
<b>IMDG</b> 6.1/II		
<b>R:</b> 23/24/25-34-48/20/21/22-68		
<b>S:</b> 24/25-26-28-36/37/39-45		



PRODUCT NO.	PACKING	CONT. BOX
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1480.0500	500 ml	
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*Contains about 20 ppm Citric Acid as a Preservative.*  
Preserve in tight, light-resistant glass containers.

## Phenol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Phenolphthalein

1159 'BAKER ANALYZED' / ACS

▶ $C_{20}H_{14}O_5$	<b>Meets ACS Specifications</b>	
<b>M</b> = 318.33 g/mol	Clarity of alcohol solution	passes test
<b>CAS NO.</b> 77-09-8	<b>Visual Transition Interval:</b>	
<b>EINECS</b> 201-004-7	pH 10.0	red
<b>NC CODE</b> 2932 29 10	pH 8.0	colorless

PRODUCT NO.	PACKING	CONT. BOX
1159.0100	100 g	6

## Phenolphthalein

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Phenolphthalein

7143 1% solution in ethanol / 'BAKER ANALYZED'

<b>1 l</b> = 0.80 kg	<b>Visual Transition Interval:</b>	
<b>FLASHPOINT</b> 11 °C	pH 10.0	red
<b>NC CODE</b> 2207 10 00	pH 8.0	colorless
<b>UN/ID NO.</b> 1170		
<b>ADR/RID</b> 3 F1		
<b>IMDG</b> 3/II		
<b>R:</b> 11		
<b>S:</b> 16-7		



PRODUCT NO.	PACKING	CONT. BOX
7143.0250	250 ml	6

Excluding excise.

*Solution, ready for use.*

## L-Phenylalanine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## N-Phenylaniline

See Diphenylamine

## (Phenylazo) formic Acid 2-Phenylhydrazide

See Diphenylcarbazone

## Phenylmethanol

See Benzyl Alcohol

## Phloxine B

'BAKER ANALYZED' / Certified Stain

1468

**CAS NO.** 18472-87-2  
**EINECS** 242-355-6  
**NC CODE** 3204 12 00

**Certified for Use in Histology**

Absorbance at Maximum (1.0 mg/200 ml  
 in 50% C<sub>2</sub>H<sub>5</sub>OH and 0.01% Na<sub>2</sub>CO<sub>3</sub>, 1-cm  
 path) act. value reported  
 Absorbance Maximum, nm act. value reported  
 Biological Test passes test  
 Total Dye Content act. value reported

PRODUCT NO.	PACKING	CONT. BOX
1468.0025	25 g Glass	

*Certified by the Biological Stain Commission.*  
 (C.I. 45410)

## Phosphate Reagent Solution

'BAKER ANALYZED'

7491

**NC CODE** 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
7491.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Contains: di-Sodiumhydrogen Phosphate Dodecahydrate,  
 tri-Sodiumphosphate Dodecahydrate, Water (max. 1µS).

## meta-Phosphoric Acid

Pellets / 'BAKER ANALYZED' / ACS

0676

**CAS NO.** 37267-86-0  
**EINECS** 253-433-4  
**NC CODE** 2809 20 00  
**UN/ID NO.** 3260  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 34  
**S:** 26-36/37/39-45



corrosive

**Meets ACS Specifications**

Assay (HPO <sub>3</sub> )	33.5-36.5%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.005%
Iron (Fe)	max. 0.005%
Nitrate (NO <sub>3</sub> )	max. 0.001%
Stabiliser (NaPO <sub>3</sub> )	57.0-63.0%
Substances Reducing KMnO <sub>4</sub> (as H <sub>3</sub> PO <sub>4</sub> )	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.005%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 1
--------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0676.0500	500 g	
0676.2500	2.5 kg	

*Vitreous Sodium Acid Metaphosphate.*  
 This product contains as a stabilizer a somewhat greater  
 proportion of sodiummetaphosphate than that  
 corresponding to the formula NaH(PO<sub>3</sub>)<sub>2</sub>.

## meta-Phosphoric Acid

'BAKER'

0190

**CAS NO.** 37267-86-0  
**EINECS** 253-433-4  
**NC CODE** 2809 20 00  
**UN/ID NO.** 3260  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 34  
**S:** 26-36/37/39-45



corrosive

Assay of (HPO <sub>3</sub> ) <sub>n</sub>	40-44%
Assay of (NaPO <sub>3</sub> ) <sub>n</sub>	56-60%
Arsenic (As)	max. 5 ppm
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0190.0500	500 g	6
0190.9025	25 kg	

## Phosphoric Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

Questions or suggestions, please contact us  
 at [jtbaker.nl@emea.tycohealthcare.com](mailto:jtbaker.nl@emea.tycohealthcare.com)

## Phosphoric Acid

6908 85% / ULTREX II Ultrapure Reagent

▶ H<sub>3</sub>PO<sub>4</sub>

**M** = 98.00 g/mol

**1 l** = 1.71 kg

**CAS NO.** 7664-38-2

**EINECS** 231-633-2

**NC CODE** 2809 20 00

**EC NO.** 15 011 00 6

**UN/ID NO.** 1805

**ADR/RID** 8 C2

**IMDG** 8/III

**R:** 34

**S:** 26-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

#### Actual Lot Analysis Lot No. Y09584

Assay	86.5% (w/w)
Appearance	passes test
Density (g/ml) at 25°C	1.69

#### Trace Impurities (in ppb):

Aluminium (Al)	5
Antimony (Sb)	< 0.1
Barium (Ba)	< 0.3
Beryllium (Be)	< 0.1
Bismuth (Bi)	< 0.1
Cadmium (Cd)	< 0.1
Calcium (Ca)	< 5
Cerium (Ce)	< 0.1
Cesium (Cs)	< 0.1
Chromium (Cr)	1
Cobalt (Co)	< 0.1
Copper (Cu)	< 5
Dysprosium (Dy)	< 0.1
Erbium (Er)	< 0.1
Europium (Eu)	< 0.1
Gadolinium (Gd)	< 0.1
Gallium (Ga)	< 0.2
Germanium (Ge)	< 0.1
Gold (Au)	< 0.1
Holmium (Ho)	< 0.1
Indium (In)	< 0.1
Iridium (Ir)	< 0.1
Iron (Fe)	< 0.1
Lanthanum (La)	< 0.1
Lead (Pb)	< 0.1
Lithium (Li)	< 0.1
Lutetium (Lu)	< 0.1
Magnesium (Mg)	3
Manganese (Mn)	< 0.1
Mercury (Hg)	0.04
Molybdenum (Mo)	< 0.1
Neodymium (Nd)	< 0.1
Nickel (Ni)	< 1
Niobium (Nb)	< 0.1
Palladium (Pd)	< 0.1

Platinum (Pt)	< 0.1
Potassium (K)	< 5
Praseodymium (Pr)	< 0.1
Rhodium (Rh)	< 0.1
Rubidium (Rb)	< 0.1
Ruthenium (Ru)	< 0.1
Samarium (Sm)	< 0.1
Scandium (Sc)	< 0.1
Silver (Ag)	1.4
Sodium (Na)	< 5
Strontium (Sr)	< 0.1
Tantalum (Ta)	< 0.1
Terbium (Tb)	< 0.1
Thallium (Tl)	< 0.1
Thorium (Th)	< 0.1
Thulium (Tm)	< 0.1
Tin (Sn)	< 0.1
Titanium (Ti)	< 1
Tungsten (W)	< 0.1
Uranium (U)	< 0.1
Vanadium (V)	< 0.1
Ytterbium (Yb)	< 0.1
Yttrium (Y)	< 0.1
Zinc (Zn)	< 5
Zirconium (Zr)	< 0.1

#### Trace Impurities (in ppm):

Arsenic (As)	0.002
Boron (B)	< 0.0005
Nitrate (NO <sub>3</sub> )	2
Silicon (Si)	< 0.02
Sulfate (SO <sub>4</sub> )	12

PRODUCT NO.	PACKING	CONT. BOX
6908.0050	50 g	

For Laboratory, Research or Manufacturing Use.

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
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U  
V  
W  
X  
Y  
Z

## Phosphoric Acid

85% / 'BAKER ANALYZED' / ACS

6024

▶ H<sub>3</sub>PO<sub>4</sub>

**M** = 98.00 g/mol  
**1 l** = 1.71 kg  
**CAS NO.** 7664-38-2  
**EINECS** 231-633-2  
**NC CODE** 2809 20 00  
**EC NO.** 15 011 00 6  
**UN/ID NO.** 1805  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 34  
**S:** 26-45



corrosive

### Exceeds ACS Specifications

Assay	min. 85.0%
Alkali phosphates	passes test
Chloride (Cl)	max. 1 ppm
Color (APHA)	max. 10
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.001%
Nitrate (NO <sub>3</sub> )	max. 5 ppm
Phosphorous or Hypophosphorous Acid	passes test
Reducing Substances	passes test
Sulfate (SO <sub>4</sub> )	max. 0.003%
Volatile Acids (as CH <sub>3</sub> COOH)	max. 0.001%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 10
Antimony (Sb)	max. 4
Arsenic (As)	max. 0.5
Cadmium (Cd)	max. 5
Calcium (Ca)	max. 20
Copper (Cu)	max. 5
Iron (Fe)	max. 10
Lead (Pb)	max. 5
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 0.5
Nickel (Ni)	max. 5
Potassium (K)	max. 5
Sodium (Na)	max. 10
Zinc (Zn)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6024.1000	1 l	6
6024.2500	2.5 l	4
6024.9025	25 l	
6024.9200	200 l	

## Phosphoric Acid 85% MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Phosphoric Acid Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Phosphorus, red

'BAKER'

9008

▶ P

**M** = 30.97 g/mol  
**CAS NO.** 7723-14-0  
**EINECS** 231-768-7  
**NC CODE** 2804 70 00  
**EC NO.** 15 002 00 7  
**UN/ID NO.** 1338  
**ADR/RID** 4.1 F3  
**IMDG** 4.1/III  
**R:** 11-16-52/53  
**S:** 43d-61-7



highly flammable

Assay min. 97%

PRODUCT NO.	PACKING	CONT. BOX
9008.0250	250 g	

## Phosphorus(V) Oxide

See Phosphorus Pentoxide

## Phosphotungstic Acid

See Tungstophosphoric Acid

## Photoresist Strippers

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Phosphorus Pentoxide

0192 Powder / 'BAKER ANALYZED' / ACS

▶ P<sub>2</sub>O<sub>5</sub>

**M** = 141.94 g/mol  
**CAS NO.** 1314-56-3  
**EINECS** 215-236-1  
**NC CODE** 2809 10 00  
**EC NO.** 15 010 00 0  
**UN/ID NO.** 1807  
**ADR/RID** 8 C2  
**IMDG** 8/II  
**R:** 35  
**S:** 22-26-45



### Exceeds ACS Specifications

Assay	min. 98.0%
Ammonium (NH <sub>4</sub> )	max. 0.01%
Heavy Metals (as Pb)	max. 0.01%
Insoluble Matter	max. 0.01%
Phosphorus Trioxide (P <sub>2</sub> O <sub>3</sub> )	passes test

PRODUCT NO.	PACKING	CONT. BOX
0192.0100	100 g	

## Phthalic Anhydride

0194 'BAKER ANALYZED' / ACS

▶ C<sub>8</sub>H<sub>4</sub>-1,2-COO<sub>2</sub>O

**M** = 148.12 g/mol  
**CAS NO.** 85-44-9  
**EINECS** 201-607-5  
**NC CODE** 2917 35 00  
**EC NO.** 607 009 00 4  
**UN/ID NO.** 2214  
**ADR/RID** 8 C4  
**IMDG** 8/III  
**R:** 22-37/38-41-42/43  
**S:** 23-24/25-26-37/39-46



### Exceeds ACS Specifications

Assay	99.7-100.2%
Appearance	white flaky crystals
Chloride (Cl)	max. 0.001%
Melting Range (includes 131°C)	max. 3°C
Residue after Ignition	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.003%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0194.1000	1 kg	

## Phthalic Anhydride in Pyridine

7526 160 g/l / 'BAKER ANALYZED'

**FLASHPOINT** 17 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-20/21/22-41-42/43  
**S:** 23-26-36/37/39-45



Color (APHA) max. 100

PRODUCT NO.	PACKING	CONT. BOX
7526.2500	2.5 l	4

Volumetric Solution, ready for use.

## Pilocarpine Nitrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Piperazine-N,N'-bis (2-ethanesulfonic acid)

4265 'BAKER ULTRAPURE BIOAGENT'

▶ C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

**M** = 302.37 g/mol  
**CAS NO.** 5625-37-6  
**NC CODE** 2933 59 95

Assay	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Protease Activity	none detected
Residue after Ignition	max. 0.3%
RNase Activity	none detected

### Product Information (not specifications):

pKa at 20°C	6.80
-------------	------

PRODUCT NO.	PACKING	CONT. BOX
4265.0025	25 g Glass	
4265.0100	100 g	
4265.1000	1 kg	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



## Piperazine-N,N'-bis(2-ethanesulfonic acid) Sodium Salt

'BAKER ULTRAPURE BIOREAGENT'

4266

▶  $C_8H_{17}N_2Na_{1.5}O_6S_2$

**M** = 335.85 g/mol

**CAS NO.** 100037-69-2

**NC CODE** 2933 59 95

Assay	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.05%
Protease Activity	none detected
RNase Activity	none detected
<b>Product Information (not specifications):</b>	
pKa at 20°C	6.80

PRODUCT NO.	PACKING	CONT. BOX
4266.0025	25 g Glass	
4266.0100	100 g	
4266.1000	1 kg	

### PIPES

See Piperazine-N,N'-bis(2-ethanesulfonic acid)

### PIPES Sodium Salt

See Piperazine-N,N'-bis(2-ethanesulfonic acid) Sodium Salt

### Platinum 1000 µg/ml

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5773

▶ Pt

**M** = 195.08 g/mol

**NC CODE** 3822 00 00

#### Certificate Provided Reporting Actual Lot Analysis

Platinum (Pt)	998-1002 µg/ml
---------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
5773.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Platinum 1000 µg/ml

(Matrix: 5% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6951

▶ Pt

**M** = 195.08 g/mol

**NC CODE** 3822 00 00

Platinum (Pt)	998-1002 µg/ml
---------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
6951.0100	100 ml	
6951.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Platinum 10000 µg/ml

(Matrix: 10% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5740

▶ Pt

**M** = 195.08 g/mol

**NC CODE** 3822 00 00

**R:** 36/38

**S:** 26



irritant

#### Certificate Provided Reporting Actual Lot Analysis

Platinum (Pt)	9980-10020 µg/ml
---------------	------------------

PRODUCT NO.	PACKING	CONT. BOX
5740.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Platinum Chloride

See Chloroplatinic Acid Hexahydrate

# Polya

## Polyamide 6

**5014** 'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

NC CODE 3908 10 00

PRODUCT NO.	PACKING	CONT. BOX
5014	25 sheets	

A flexible sheet coated with high purity polyamide 6 powder.

## Polyamide 6

**5046** 'BAKER TLC' / for Thin Layer Chromatography

NC CODE 3908 10 00

Particle Size (< 50µ) min. 80%  
Suitability for TLC passes test

PRODUCT NO.	PACKING	CONT. BOX
5046.0100	100 g	

## Polyamide 6-F

**5015** 'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

NC CODE 3908 10 00

PRODUCT NO.	PACKING	CONT. BOX
5015	25 sheets	

A flexible sheet coated with high purity polyamide 6 powder containing a fluorescent indicator (activated at 2540 Å).

## Polyethylene Glycol

**7176** 200 / 'BAKER'

▶  $H(OCH_2CH_2)_nOH$  Identity (by IR) passes test  
**11** = 1.12 kg  
**CAS NO.** 25322-68-3  
**EINECS** 203-473-3  
**NC CODE** 3907 20 11

PRODUCT NO.	PACKING	CONT. BOX
7176.1000	1 l	

## Polyethylene Glycol

**7178** 400 / 'BAKER'

▶  $H(OCH_2CH_2)_nOH$  Freezing Point 4-8°C  
**11** = 1.12 kg  
**CAS NO.** 25322-68-3  
**EINECS** 203-473-3  
**NC CODE** 3907 20 11

PRODUCT NO.	PACKING	CONT. BOX
7178.1000	1 l	

## Polyethylene Glycol

**1613** 1000 / 'BAKER'

▶  $H(OCH_2CH_2)_nOH$  Freezing Point 37 - 40°C  
**EINECS** 203-473-3  
**NC CODE** 3907 20 11

PRODUCT NO.	PACKING	CONT. BOX
1613.1000	1 kg	

## Polyethylene Glycol

**1615** 4000 / 'BAKER'

▶  $H(OCH_2CH_2)_nOH$  Melting Point 55 - 60°C  
**EINECS** 203-473-3  
**NC CODE** 3907 20 11

PRODUCT NO.	PACKING	CONT. BOX
1615.1000	1 kg	

## Polyethylene Glycol

**1616** 6000 / 'BAKER'

▶  $H(OCH_2CH_2)_nOH$  Melting Point 60 - 66°C  
**EINECS** 203-473-3  
**NC CODE** 3907 20 11

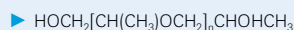
PRODUCT NO.	PACKING	CONT. BOX
1616.1000	1 kg	6

A  
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C  
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I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

### Polypropylene Glycol

400 / 'BAKER'

7179



**1 l** = 1.01 kg  
**CAS NO.** 25322-69-4  
**EINECS** 200-338-0  
**NC CODE** 3907 20 29

PRODUCT NO.	PACKING	CONT. BOX
7179.1000	1 l	

### Polysorbate 20

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Polysorbate 80

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Potassium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5774

▶ K

**M** = 39.10 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



**Certificate Provided Reporting Actual Lot Analysis**

Potassium (K) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5774.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Potassium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6950

▶ K

**M** = 39.10 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



Potassium (K) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6950.0100	100 ml	
6950.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Potassium 1000 µg/ml

'BAKER ANALYZED' / Atomic Absorption Standard

6820

▶ K

**M** = 39.10 g/mol  
**NC CODE** 3822 00 00

Potassium (K) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6820.0100	100 ml	
6820.0500	500 ml	

Potassium nitrate in water.

### Potassium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5741

▶ K

**M** = 39.10 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



**Certificate Provided Reporting Actual Lot Analysis**

Potassium (K) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5741.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

A  
B  
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H  
I  
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K  
L  
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Z

## Potassium Acetate

0195 'BAKER ANALYZED' / ACS

▶ CH<sub>3</sub>COOK

**M** = 98.15 g/mol  
**CAS NO.** 127-08-2  
**EINECS** 204-822-2  
**NC CODE** 2915 29 00

### Meets ACS Specifications

Assay (by non-aqueous titrn.)	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
pH of 5% Solution at 25°C	6.5-9.0
Phosphate (PO <sub>4</sub> )	max. 0.001%
Sodium (Na)	max. 0.03%
Sulfate (SO <sub>4</sub> )	max. 0.002%
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0195.1000	1 kg	6

## Potassium Acetate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Alum Powder

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Bicarbonate

See Potassium Hydrogen Carbonate

## Potassium Bicarbonate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Bichromate

See Potassium Dichromate

## Potassium Biphosphate

See Potassium Dihydrogen Phosphate

## Potassium Biphthalate

See Potassium Hydrogen Phthalate

## Potassium Bisulfate

See Potassium Hydrogen Sulfate

## Potassium Bisulfate, fused

See Potassium Pyrosulfate

## Potassium Bromate

7133 1/60 mol/l / 0.1 N / 'BAKER ANALYZED'

**M** = 167.00 g/mol  
**EINECS** 231-829-8  
**NC CODE** 2829 90 40  
**R:** 45  
**S:** 36-45-53



Titer (N) 0.0995- 0.1005

PRODUCT NO.	PACKING	CONT. BOX
7133.1000	1 l	
7133.9020	20 l Polycube	

Volumetric Solution, ready for use.

*Innovation is principal to our business.*

## Potassium Bromate

 $\frac{1}{60}$  mol/l / 0.1 N / DILUT-IT

4667

▶ KBrO<sub>3</sub>

M = 167.00 g/mol  
**CAS NO.** 7758-01-2  
**EINECS** 231-829-8  
**NC CODE** 2829 90 40  
**UN/ID NO.** 1484  
**ADR/RID** 5.1 02  
**IMDG** 5.1/II  
**R:** 45  
**S:** 36-45-53



PRODUCT NO.	PACKING	CONT. BOX
4667	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Potassium Bromide

'BAKER INSTRA-ANALYZED' / For IR Analysis

0373

▶ KBr

M = 119.01 g/mol  
**CAS NO.** 7758-02-3  
**EINECS** 231-830-3  
**NC CODE** 2827 51 00

Assay (argentometric titrn.)	min. 99.0%
Insoluble Matter	max. 0.005%
Loss on Drying at 105°C	max. 0.05%
pH of 5% Solution at 25°C	5.0-7.5
Suitability for Infrared Analysis	passes test
Sulfate (SO <sub>4</sub> )	max. 0.002%

**Trace Impurities (in ppm):**

Nitrogen Compounds (as N)	max. 5
---------------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0373.0100	100 g	

## Potassium Bromide

'BAKER ANALYZED' / ACS

0202

▶ KBr

M = 119.01 g/mol  
**CAS NO.** 7758-02-3  
**EINECS** 231-830-3  
**NC CODE** 2827 51 00

**Meets ACS Specifications. Meets Reagent****Specifications for testing USP/NF monographs**

Assay (argentometric titrn.)	min. 99.0%
Barium (Ba)	max. 0.002%
Bromate (BrO <sub>3</sub> )	max. 0.001%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.2%
Insoluble Matter	max. 0.005%
Iodate (IO <sub>3</sub> )	max. 0.001%
Iodide (I)	max. 0.001%
Magnesium (Mg)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.005%
pH of 5% Solution at 25°C	5.0-8.8
Sodium (Na)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.005%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0202.0250	250 g	6
0202.1000	1 kg	

## Potassium Bromide

'BAKER'

0218

▶ KBr

M = 119.01 g/mol  
**CAS NO.** 7758-02-3  
**EINECS** 231-830-3  
**NC CODE** 2827 51 00

Assay (dried basis)	98.0-100.5%
Acidity or Alkalinity	passes test
Appearance of solution	passes test
Bromates (as BrO <sub>3</sub> )	passes test
Chlorides (as Cl)	max. 0.6%
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iodides (as I)	passes test
Iron (Fe)	max. 20 ppm
Loss on Drying	max. 1.0%
Magnesium and Alkaline-earth Metals (as Ca)	max. 200 ppm
Sulfates (as SO <sub>4</sub> )	max. 100 ppm

PRODUCT NO.	PACKING	CONT. BOX
0218.1000	1 kg	
0218.9025	25 kg	

## Potassium Bromide - Borax Solution

7486 pH 8.6 / 'BAKER ANALYZED' / For coulometric ammonia titration in surface water

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
7486.9020	20 l Polycube	

Volumetric Solution, ready for use.

## Potassium Carbonate Anhydrous

0204 'BAKER ANALYZED' / ACS

▶  $K_2CO_3$

M = 138.21 g/mol  
 CAS NO. 584-08-7  
 EINECS 209-529-3  
 NC CODE 2836 40 00  
 R: 22-36/37/38  
 S: 22-26



**Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs**

Assay (by acid-base titration)	min. 99.0%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.003%
Copper (Cu)	max. 100 ppb
Insoluble Matter	max. 0.01%
Magnesium (Mg)	max. 0.002%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Silica (SiO <sub>2</sub> )	max. 0.005%
Sodium (Na)	max. 0.02%
Sulfur Compounds (as SO <sub>4</sub> )	max. 0.004%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0204.1000	1 kg	6
0204.9025	25 kg	

## Potassium Carbonate Anhydrous

0205 'BAKER'

▶  $K_2CO_3$

M = 138.21 g/mol  
 CAS NO. 584-08-7  
 EINECS 209-529-3  
 NC CODE 2836 40 00  
 R: 22-36/37/38  
 S: 22-26



Assay min. 99%

PRODUCT NO.	PACKING	CONT. BOX
0205.1000	1 kg	
0205.9050	50 kg	

## Potassium Carbonate, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Chlorate

0207 'BAKER'

▶  $KClO_3$

M = 122.55 g/mol  
 CAS NO. 3811-04-9  
 EINECS 223-289-7  
 NC CODE 2829 19 00  
 EC NO. 17 004 00 3  
 UN/ID NO. 1485  
 ADR/RID 5.1 02  
 IMDG 5.1/II  
 R: 20/22-9  
 S: 13-16-27



Assay	min. 99.0%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0207.1000	1 kg HDPE	
0207.9050	50 kg	

## Potassium Chloride

crystal / 'BAKER ULTRAPURE BIOAGENT'

4001

▶ KCl

**M** = 74.56 g/mol  
**CAS NO.** 7447-40-7  
**EINECS** 231-211-8  
**NC CODE** 3104 20 90

Assay (argentometric titrn.)	99.0-100.5%
Barium (Ba)	max. 0.001%
Bromide (Br)	max. 0.1%
Calcium, Magnesium and R <sub>2</sub> O <sub>3</sub> Precipitate	max. 0.005%
DNase Activity	none detected
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
Loss on Drying at 105°C	max. 1.0%
pH of 5% Solution at 25°C	5.4-8.6
Protease Activity	none detected
RNase Activity	none detected
Sodium (Na)	max. 0.005%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 1
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Nickel (Ni)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
4001.0500	500 g	
4001.2500	2.5 kg	

## Potassium Chloride

'BAKER ANALYZED' / ACS

0208

▶ KCl

**M** = 74.56 g/mol  
**CAS NO.** 7447-40-7  
**EINECS** 231-211-8  
**NC CODE** 3104 20 90

**Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs**

Assay (argentometric titrn.)	99.0-100.5%
Barium (Ba)	passes test
Bromide (Br)	max. 0.01%
Calcium (Ca)	max. 0.002%
Chlorate and Nitrate (as NO <sub>3</sub> )	max. 0.003%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
Loss on Drying at 105°C	max. 1.0%
Magnesium (Mg)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	5.4-8.6
Sodium (Na)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.001%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 1
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Nickel (Ni)	max. 1
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0208.0250	250 g	
0208.1000	1 kg	6
0208.5000	5 kg	
0208.7100	100 lbs	

## Potassium Chloride

'BAKER'

0209

▶ KCl

**M** = 74.56 g/mol  
**CAS NO.** 7447-40-7  
**EINECS** 231-211-8  
**NC CODE** 3104 20 90

Assay	99.0-100.5%
Acid or alkaline reacting substances	passes test
Appearance of solution	passes test
Barium (Ba)	passes test
Bromide (Br)	max. 0.1%
Calcium and Magnesium	passes test
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iodide (I)	passes test
Loss on Drying at 105°C	max. 1.0%
Magnesium, earth-alkaline metals (as Ca)	max. 200 ppm
Organic Volatile Impurities	passes test
Sulfate (SO <sub>4</sub> )	max. 300 ppm
<b>Trace Impurities (in ppm):</b>	
Iron (Fe)	max. 20 ppm
Sodium (Na)	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0209.1000	1 kg	6
0209.5000	5 kg	
0209.9050	50 kg	

# Potas

## Potassium Chloride

0509 'BAKER'

▶ KCl	Assay	min. 99%
<b>M</b> = 74.56 g/mol	Acidity and Alkalinity	passes test
<b>CAS NO.</b> 7447-40-7	Heavy Metals (as Pb)	max. 0.001%
<b>EINECS</b> 231-211-8	Iron (Fe)	max. 0.005%
<b>NC CODE</b> 3104 20 90	Sodium (Na)	max. 0.1%
	Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0509.0500	500 g	6
0509.1000	1 kg	6
0509.5000	5 kg	

## Potassium Chloride

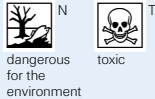
See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Chromate

0210 'BAKER ANALYZED'

▶ K <sub>2</sub> CrO <sub>4</sub>	Assay	min. 99.0%
<b>M</b> = 194.20 g/mol	Calcium (Ca)	max. 0.005%
<b>CAS NO.</b> 7789-00-6	Chloride (Cl)	max. 0.005%
<b>EINECS</b> 232-140-5	Insoluble Matter	max. 0.005%
<b>NC CODE</b> 2841 50 00	pH of 5% Solution at 25°C	8.6-9.8
<b>EC NO.</b> 24 006 00 8	Sodium (Na) (by AAS)	max. 0.02%
<b>R:</b> 36/37/38-43-46-49-50/53	Sulfate (SO <sub>4</sub> )	max. 0.03%
<b>S:</b> 45-53-60-61		

PRODUCT NO.	PACKING	CONT. BOX
0210.0500	500 g	

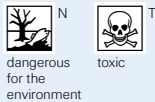


## Potassium Chromate

0211 'BAKER'

▶ K <sub>2</sub> CrO <sub>4</sub>	Insoluble Matter	max. 0.01%
<b>M</b> = 194.20 g/mol		
<b>CAS NO.</b> 7789-00-6		
<b>EINECS</b> 232-140-5		
<b>NC CODE</b> 2841 50 00		
<b>EC NO.</b> 24 006 00 8		
<b>R:</b> 36/37/38-43-46-49-50/53		
<b>S:</b> 45-53-60-61		

PRODUCT NO.	PACKING	CONT. BOX
0211.9050	50 kg	



## Potassium Citrate, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Cyanide

0213 'BAKER ANALYZED' / ACS

▶ KCN	<b>Meets ACS Specifications</b>	
<b>M</b> = 65.12 g/mol	Assay (argentometric titrn.)	min. 96.0%
<b>CAS NO.</b> 151-50-8	Chloride (Cl)	max. 0.5%
<b>EINECS</b> 205-792-3	Iron, total (as Fe)	max. 0.03%
<b>NC CODE</b> 2837 19 00	Phosphate (PO <sub>4</sub> )	max. 0.005%
<b>EC NO.</b> 6 007 00 5	Sodium (Na)	max. 0.5%
<b>UN/ID NO.</b> 1680	Sulfate (SO <sub>4</sub> )	max. 0.04%
<b>ADR/RID</b> 6.1 T5	Sulfide (S)	max. 0.003%
<b>IMDG</b> 6.1/I	Thiocyanate (SCN)	max. 0.02%
<b>R:</b> 26/27/28-32-50/53	<b>Trace Impurities (in ppm):</b>	
<b>S:</b> 28-29-45-60-61-7	Lead (Pb)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0213.0100	100 g	
0213.9050	50 kg	



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



## Potassium Dichromate

crystal / 'BAKER ANALYZED' / Primary Standard / ACS

0214

▶  $K_2Cr_2O_7$ 

**M** = 294.19 g/mol  
**CAS NO.** 7778-50-9  
**EINECS** 231-906-6  
**NC CODE** 2841 50 00  
**EC NO.** 24 002 00 6  
**UN/ID NO.** 3288  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 21-25-26-34-42/43-45-46-48/23-50/53-60-61-8  
**S:** 45-53-60-61



dangerous for the environment



oxidizing



very toxic

**Exceeds ACS Specifications**

Assay (dried basis)	99.95-100.05%
Calcium (Ca)	max. 0.001%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.02%
pH of 5% Solution at 25°C	3.5-4.0
Sodium (Na)	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0214.0500	500 g	

## Potassium Dichromate

'BAKER ANALYZED' / ACS

0215

▶  $K_2Cr_2O_7$ 

**M** = 294.19 g/mol  
**CAS NO.** 7778-50-9  
**EINECS** 231-906-6  
**NC CODE** 2841 50 00  
**EC NO.** 24 002 00 6  
**UN/ID NO.** 3288  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 21-25-26-34-42/43-45-46-48/23-50/53-60-61-8  
**S:** 45-53-60-61



dangerous for the environment



oxidizing



very toxic

**Exceeds ACS Specifications**

Assay	min. 99.0%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.05%
Sodium (Na)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0215.0500	500 g	
0215.1000	1 kg	

## Potassium Dichromate

'BAKER'

0216

▶  $K_2Cr_2O_7$ 

**M** = 294.19 g/mol  
**CAS NO.** 7778-50-9  
**EINECS** 231-906-6  
**NC CODE** 2841 50 00  
**EC NO.** 24 002 00 6  
**UN/ID NO.** 3288  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 21-25-26-34-42/43-45-46-48/23-50/53-60-61-8  
**S:** 45-53-60-61



dangerous for the environment



oxidizing



very toxic

Assay min. 99%

PRODUCT NO.	PACKING	CONT. BOX
0216.9050	50 kg	

## Potassium Dichromate

1/24 mol/l / 'BAKER ANALYZED'

7250

**NC CODE** 2841 50 00  
**R:** 23-42/43-45-46-48/20-52/53-60-61  
**S:** 23-24-36/37-45-53-60-61



toxic

Titer (mol/l) 0.0415-0.0420

PRODUCT NO.	PACKING	CONT. BOX
7250.1000	1 l	6

# Potas

## Potassium Dichromate

**7631** 0.04 mol/l / 'BAKER ANALYZED' / For COD determination according AFNOR NFT90-101

**UN/ID NO.** 3264      **Molarity (M)** 0.0396 - 0.0404  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 23-35-42/43-45-46-48-52/53-60-61  
**S:** 23-26-36/37/39-45-53-60-61



PRODUCT NO.	PACKING	CONT. BOX
7631.1000	1 l	

Potassium Dichromate / Sulfuric Acid Solution 0.04 mol/l.

## Potassium Dichromate

**7134** 0.02 mol/l / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol.41

**M** = 294.19 g/mol      **Titer (mol/l)** 0.0198 - 0.0202  
**CAS NO.** 7778-50-9  
**EINECS** 231-906-6  
**NC CODE** 2841 50 00  
**R:** 26/27/28-33-42/43-45-46-50/53-60-61  
**S:** 29-36/37-45-53



PRODUCT NO.	PACKING	CONT. BOX
7134.1000	1 l	

Volumetric Solution, ready for use.

## Potassium Dichromate

**7249** 0.005 mol/l / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol.41

**NC CODE** 2841 50 00      **Titer (mol/l)** 0.0048-0.0052  
**R:** 20-45-46  
**S:** 36-45-53



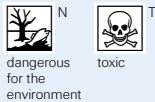
PRODUCT NO.	PACKING	CONT. BOX
7249.1000	1 l	6

## Potassium Dichromate

**4671** 1/60 mol/l / 1/10 equiv. = 4.903g; 0.1N / DILUT-IT

►  $K_2Cr_2O_7$

**M** = 294.19 g/mol  
**CAS NO.** 7778-50-9  
**EINECS** 231-906-6  
**NC CODE** 2841 50 00  
**EC NO.** 24 002 00 6  
**R:** 22-23-42/43-45-46-48/20-51/53-60-61  
**S:** 29-36/37-45-53



PRODUCT NO.	PACKING	CONT. BOX
4671	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

*J.T.Baker: over 100 years of experience.*

*See chapter 1 of this catalogue.*

## Potassium Dihydrogen Phosphate

ULTREX Ultrapure Reagent

4921

▶  $\text{KH}_2\text{PO}_4$ 

M = 136.09 g/mol

CAS NO. 7778-77-0

EINECS 231-913-4

NC CODE 2835 24 00

## Certificate Provided Reporting Actual Lot Analysis

## Actual Lot Analysis Lot No. A49470

Assay (dried basis)	99.7%
Loss on Drying at 150°C (for 2 Hours)	< 0.02%
Particulate Matter	< 0.001%
pH of 5% Solution at 25°C	4.3

Metallic Impurities in parts per million ( $\mu\text{g/g}$ ):

Aluminium (Al)	0.4
Barium (Ba)	0.3
Bismuth (Bi)	0.2
Cadmium (Cd)	0.4
Calcium (Ca)	0.4
Chromium (Cr)	0.4
Cobalt (Co)	0.7
Copper (Cu)	0.4
Iron (Fe)	0.5
Lead (Pb)	0.4
Magnesium (Mg)	0.3
Manganese (Mn)	0.4
Mercury (Hg)	0.0002
Molybdenum (Mo)	0.2
Nickel (Ni)	0.3
Niobium (Nb)	0.4
Silver (Ag)	0.3
Sodium (Na)	< 0.2
Strontium (Sr)	0.4
Tin (Sn)	< 0.2
Titanium (Ti)	0.3
Vanadium (V)	0.4
Zinc (Zn)	0.4
Zirconium (Zr)	0.3

Non-Metallic Impurities in parts per million ( $\mu\text{g/g}$ ):

Arsenic (As)	< 3
Fluoride (F)	2
Halide (as Cl)	< 10
Nitrogen Compounds (as N)	< 10
Silicon (Si)	0.2
Sulfate ( $\text{SO}_4$ )	< 20

## Ultraviolet Absorbance (1M aqueous Solution; 1.00-cm path vs water):

at 215 nm	0.04
at 220 nm	0.04
at 254 nm	0.04
at 280 nm	0.03
at 400 nm	< 0.01

PRODUCT NO.	PACKING	CONT. BOX
4921.0100	100 g Glass	
4921.1000	1 kg Glass	

For Laboratory, Research or Manufacturing Use.

## Potassium Dihydrogen Phosphate

crystal / 'BAKER ULTRAPURE BIOREAGENT'

4008

▶  $\text{KH}_2\text{PO}_4$ 

M = 136.09 g/mol

CAS NO. 7778-77-0

EINECS 231-913-4

NC CODE 2835 24 00

## For Liquid Chromatography and Molecular Biology applications

Assay	min. 99.0%
DNAase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter, Calcium and $\text{NH}_4\text{OH}$	
Precipitate	max. 0.01%
Iron (Fe)	max. 0.002%
Loss on Drying over $\text{H}_2\text{SO}_4$	max. 0.2%
pH of 5% Solution at 25°C	4.1-4.5
Protease Activity	none detected
RNAase Activity	none detected

## Trace Impurities (in ppm):

Arsenic (As)	max. 3
--------------	--------

PRODUCT NO.	PACKING	CONT. BOX
4008.0500	500 g	
4008.2500	2.5 kg	

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0240

## Potassium Dihydrogen Phosphate

'BAKER ANALYZED' / ACS

▶  $\text{KH}_2\text{PO}_4$

**M** = 136.09 g/mol  
**CAS NO.** 7778-77-0  
**EINECS** 231-913-4  
**NC CODE** 2835 24 00

### Exceeds ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Fluoride (F)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.001%
Loss on Drying at 105°C	max. 0.2%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	4.1-4.5
Sodium (Na)	max. 0.005%
Sulfate ( $\text{SO}_4$ )	max. 0.003%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0240.0500	500 g	6
0240.1000	1 kg	6

1737

## Potassium Dihydrogen Phosphate

'BAKER'

▶  $\text{KH}_2\text{PO}_4$

**M** = 136.09 g/mol  
**CAS NO.** 7778-77-0  
**EINECS** 231-913-4  
**NC CODE** 2835 24 00

Assay	min. 99%
Loss on Drying at 105°C	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1737.1000	1 kg	6



## Potassium Dihydrogen Phosphate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

0199

## Potassium Disulfite

'BAKER ANALYZED'

▶  $\text{K}_2\text{S}_2\text{O}_5$

**M** = 222.33 g/mol  
**CAS NO.** 16731-55-8  
**EINECS** 240-795-3  
**NC CODE** 2833 29 90  
**R:** 31-37-41  
**S:** 26-39

Assay	min. 95.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
0199.1000	1 kg	6



## Potassium Ferricyanide

See Potassium Hexacyanoferrate(III)



## Potassium Ferrocyanide

See Potassium Hexacyanoferrate(II)

0225

## Potassium Fluoride Anhydrous

'BAKER ANALYZED'

▶ KF

**M** = 58.10 g/mol  
**CAS NO.** 7789-23-3  
**EINECS** 232-151-5  
**NC CODE** 2826 19 00  
**EC NO.** 9 005 00 2  
**UN/ID NO.** 1812  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 23/24/25  
**S:** 26-45

Assay	min. 99.0%
Chloride (Cl)	max. 0.005%
Free Acid (as HF)	max. 0.05%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Potassium Fluorosilicate ( $\text{K}_2\text{SiF}_6$ )	max. 0.05%
Sodium (Na)	max. 0.05%
Sulfate ( $\text{SO}_4$ )	max. 0.005%
Sulfite ( $\text{SO}_3$ )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0225.0250	250 g	
0225.1000	1 kg	6



## Potassium Hexachloroplatinate(IV)

'BAKER'

1442

		Assay (Pt)	min. 40%	PRODUCT NO.	PACKING	CONT. BOX
▶ $K_2PtCl_6$		Suitable for the preparation of APHA standards	passes test	1442.0001	1 g	
<b>M</b> =	486.01 g/mol					
<b>CAS NO.</b>	16921-30-5					
<b>EINECS</b>	240-979-3					
<b>NC CODE</b>	2843 90 90					
<b>UN/ID NO.</b>	1759					
<b>ADR/RID</b>	8 C10					
<b>IMDG</b>	8/III					
<b>R:</b>	36/37/38-42/43					
<b>S:</b>	26-28A-36/37/39					

## Potassium Hexacyanoferrate(II)

crystal / 'BAKER ANALYZED' / ACS

0220

		<i>Exceeds ACS Specifications</i>		PRODUCT NO.	PACKING	CONT. BOX
▶ $K_4Fe(CN)_6 \cdot 3H_2O$		Assay	99.0-102.0%	0220.0100	100 g	
<b>M</b> =	422.41 g/mol	Chloride (Cl)	max. 0.01%	0220.1000	1 kg	
<b>CAS NO.</b>	14459-95-1	Insoluble Matter	max. 0.005%			
<b>EINECS</b>	237-722-2	Sulfate (SO <sub>4</sub> )	max. 0.005%			
<b>NC CODE</b>	2837 20 00					

## Potassium Hexacyanoferrate(III)

'BAKER ANALYZED' / ACS

0219

		<i>Exceeds ACS Specifications</i>		PRODUCT NO.	PACKING	CONT. BOX
▶ $K_3Fe(CN)_6$		Assay (by Iodometry)	min. 99.0%	0219.0250	250 g	
<b>M</b> =	329.26 g/mol	Appearance	passes test	0219.1000	1 kg	
<b>CAS NO.</b>	13746-66-2	Chloride (Cl)	max. 0.01%			
<b>EINECS</b>	237-323-3	Ferro Compounds as [Fe(CN) <sub>6</sub> ] <sup>4-</sup>	max. 0.05%			
<b>NC CODE</b>	2837 20 00	Insoluble Matter	max. 0.005%			
		Sulfate (SO <sub>4</sub> )	max. 0.01%			

## Potassium Hydrogen Carbonate

'BAKER ANALYZED' / ACS

2940

		<i>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</i>		PRODUCT NO.	PACKING	CONT. BOX
▶ $KHCO_3$		Assay (dried basis)	99.7-100.5%	2940.0500	500 g	6
<b>M</b> =	100.12 g/mol	Calcium (Ca)	max. 0.002%			
<b>CAS NO.</b>	298-14-6	Chloride (Cl)	max. 0.001%			
<b>EINECS</b>	206-059-0	Insoluble Matter	max. 0.01%			
<b>NC CODE</b>	2836 40 00	Magnesium (Mg)	max. 0.001%			
		Sodium (Na)	max. 0.03%			
		Sulfur Compounds (as SO <sub>4</sub> )	max. 0.003%			
		<b>Trace Impurities (in ppm):</b>				
		Ammonium (NH <sub>4</sub> )	max. 5			
		Heavy Metals (as Pb)	max. 5			
		Iron (Fe)	max. 5			
		Phosphate (PO <sub>4</sub> )	max. 5			

Certificates of Analysis are available  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Potassium Hydrogen Phosphate Anhydrous

4012 powder, 'BAKER ULTRAPURE BIOAGENT'

▶ K<sub>2</sub>HPO<sub>4</sub>

**M** = 174.18 g/mol  
**CAS NO.** 7758-11-4  
**EINECS** 231-834-5  
**NC CODE** 2835 24 00

### For Liquid Chromatography and Molecular Biology

<b>applications</b>	
Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
DNAase Activity	none detected
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
pH of 5% Solution at 25°C	8.5-9.6
Protease Activity	none detected
RNAase Activity	none detected
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4012.0500	500 g	
4012.2500	2.5 kg	

## Potassium Hydrogen Phosphate Anhydrous

0241 'BAKER ANALYZED' / ACS

▶ K<sub>2</sub>HPO<sub>4</sub>

**M** = 174.18 g/mol  
**CAS NO.** 7758-11-4  
**EINECS** 231-834-5  
**NC CODE** 2835 24 00

### Exceeds ACS Specifications. Meets Reagents

<b>Specifications for testing USP/NF monographs</b>	
Assay	min. 99.0%
Chloride (Cl)	max. 0.003%
Fluoride (F)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 1.0%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	8.5-9.6
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.005%
<b>Trace Impurities (in ppm):</b>	
Arsenic (As)	max. 1
Heavy Metals (as Pb)	max. 5
Lead (Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0241.0500	500 g	6
0241.1000	1 kg	6

## Potassium Hydrogen Phosphate Anhydrous

0242 'BAKER'

▶ K<sub>2</sub>HPO<sub>4</sub>

**M** = 174.18 g/mol  
**CAS NO.** 7758-11-4  
**EINECS** 231-834-5  
**NC CODE** 2835 24 00

Assay	98.0-100.5%
Arsenic (As)	max. 3 ppm
Carbonate (CO <sub>3</sub> )	passes test
Chloride (Cl)	max. 0.03%
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Insoluble Substances	max. 0.2%
Iron (Fe)	max. 0.003%
Limit of fluoride	max. 0.001%
Limit of monobasic or tribasic salt	passes test
Loss on Drying at 105°C	max. 1.0%
pH of 5% Solution at 25°C	8.5 - 9.6
Sodium (Na)	passes test
Sulfate (SO <sub>4</sub> )	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0242.1000	1 kg	

## Potassium Hydrogen Phosphate Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

*Innovation is principal to our business.*

## Potassium Hydrogen Phthalate

ULTREX Ultrapure Reagent

4889

▶ 1-KOCOC<sub>6</sub>H<sub>4</sub>-2-COOH  
**M** = 204.23 g/mol  
**CAS NO.** 877-24-7  
**EINECS** 212-889-4  
**NC CODE** 2917 39 80

**Certificate Provided Reporting Actual Lot Analysis****Actual Lot Analysis Lot No. B02472**

Assay (dried basis)	99.97%
Identification (by IR)	passes test
Particulate Matter	< 0.0001%
pH of 0.05 M Solution at 25°C	4.01

**Metallic Impurities in parts per million (µg/g):**

Aluminium (Al)	< 0.2
Barium (Ba)	< 0.2
Bismuth (Bi)	< 2.2
Cadmium (Cd)	< 0.1
Calcium (Ca)	< 0.1
Chromium (Cr)	< 0.2
Cobalt (Co)	< 0.2
Copper (Cu)	< 0.1
Iron (Fe)	< 0.2
Lead (Pb)	< 0.2
Magnesium (Mg)	< 0.1
Manganese (Mn)	< 0.1
Mercury (Hg)	0.0002
Molybdenum (Mo)	< 0.1
Nickel (Ni)	< 0.2
Niobium (Nb)	< 0.1
Silver (Ag)	< 0.3
Sodium (Na)	< 0.1
Strontium (Sr)	< 0.2
Tin (Sn)	< 0.2
Titanium (Ti)	< 0.2
Vanadium (V)	< 0.1
Zinc (Zn)	< 0.2
Zirconium (Zr)	< 0.2

**Non-Metallic Impurities in parts per million (µg/g):**

Chloride Compounds (as Cl)	< 30
Silicon (Si)	< 0.1
Sulfur Compounds (as S)	< 5

PRODUCT NO.	PACKING	CONT. BOX
4889.0025	25 g Glass	

For Primary Standard and Research Applications.  
 For Laboratory, Research or Manufacturing Use.

## Potassium Hydrogen Phthalate

'BAKER ANALYZED' / Primary Standard / ACS

0197

▶ 1-KOCOC<sub>6</sub>H<sub>4</sub>-2-COOH  
**M** = 204.23 g/mol  
**CAS NO.** 877-24-7  
**EINECS** 212-889-4  
**NC CODE** 2917 39 80

**Meets ACS Specifications**

Assay (dried basis)	99.95 - 100.05%
Chlorine Compounds (as Cl)	max. 0.003%
Insoluble Matter	max. 0.005%
pH of 0.05 M Solution at 25°C	4.00 - 4.02
Sodium (Na)	max. 0.005%
Sulfur Compounds (as S)	max. 0.002%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0197.0250	250 g	6

This reagent is satisfactory for use as a pH standard. For use as an acidimetric standard this material should be lightly crushed and dried for 2 hours at 120°C to remove any absorbed moisture.

## Potassium Hydrogen Phthalate

'BAKER ANALYZED'

7525

▶ 1-KOCOC<sub>6</sub>H<sub>4</sub>-2-COOH  
**M** = 204.23 g/mol  
**CAS NO.** 877-24-7  
**EINECS** 212-889-4  
**NC CODE** 2917 39 80

Assay (titrimetric)	1.04-1.08 g/l
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PRODUCT NO.	PACKING	CONT. BOX
7525.9025	25 l	

## Potassium Hydrogen Sulfate

0198 'BAKER ANALYZED'

▶  $\text{KHSO}_4$   
**M** = 136.17 g/mol  
**CAS NO.** 7646-93-7  
**EINECS** 231-594-1  
**NC CODE** 2833 29 90  
**EC NO.** 16 056 00 4  
**UN/ID NO.** 2509  
**ADR/RID** 8 C2  
**IMDG** 8/II  
**R:** 34-37  
**S:** 26-36/37/39-45



corrosive

Acidity (as $\text{H}_2\text{SO}_4$ )	35.0-37.0%
Calcium and Magnesium Precipitate	max. 0.005%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter and $\text{NH}_4\text{OH}$ Precipitate	max. 0.01%
Iron (Fe)	max. 0.001%
Phosphate ( $\text{PO}_4$ )	max. 0.001%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 1
--------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0198.0500	500 g	

## Potassium Hydroxide

0222 Pellets / 'BAKER ANALYZED' / ACS

▶ KOH  
**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 10  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1813  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 22-35  
**S:** 26-36/37/39-45



corrosive

**Exceeds ACS Specifications**

Assay	min. 86.0%
Ammonium Hydroxide Precipitate	max. 0.02%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Ag)	max. 0.001%
Insoluble Matter	max. 30 ppm
Potassium Carbonate ( $\text{K}_2\text{CO}_3$ )	max. 0.5%
Sodium (Na)	max. 0.05%

**Trace Impurities (in ppm):**

Iron (Fe)	max. 3
Mercury (Hg)	max. 0.1
Nickel (Ni)	max. 2
Nitrogen Compounds (as N)	max. 3
Phosphate ( $\text{PO}_4$ )	max. 2
Sulfate ( $\text{SO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0222.1000	1 kg	6
0222.5000	5 kg	

## Potassium Hydroxide

0385 Pellets / 'BAKER ANALYZED'

▶ KOH  
**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 10  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1813  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 22-35  
**S:** 26-36/37/39-45



corrosive

Assay	min. 85%
Aluminium (Al)	max. 0.001%
Calcium (Ca)	max. 0.001%
Potassium Carbonate ( $\text{K}_2\text{CO}_3$ )	max. 1.0%
Silica ( $\text{SiO}_2$ )	max. 0.005%
Sodium (Na)	max. 0.5%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate ( $\text{PO}_4$ )	max. 5
Sulfate ( $\text{SO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0385.0500	500 g	6
0385.1000	1 kg	6
0385.5000	5 kg	4
0385.9050	50 kg	

Find more Chromatography information at [www.jtbaker.com/chromatography](http://www.jtbaker.com/chromatography)



## Potassium Hydroxide

Pellets / 'BAKER'

0224

## ▶ KOH

**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 10  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1813  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 22-35  
**S:** 26-36/37/39-45



corrosive

Assay (KOH)	min. 85.0%
Heavy Metals (as Pb)	max. 0.003%
Identification	passes test
Insoluble Substances	passes test
Potassium Carbonate (K <sub>2</sub> CO <sub>3</sub> )	max. 3.5%

PRODUCT NO.	PACKING	CONT. BOX
0224.1000	1 kg	
0224.5000	5 kg	
0224.9050	50 kg	

## Potassium Hydroxide

Pellets / 'BAKER'

0387

## ▶ KOH

**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 10  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1813  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 22-35  
**S:** 26-36/37/39-45



corrosive

Assay	min. 84%
Aluminium (Al)	max. 0.002%
Carbonate (as K <sub>2</sub> CO <sub>3</sub> )	max. 2%
Chloride (Cl)	max. 0.01%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.002%
Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0387.9050	50 kg	

## Potassium Hydroxide, Pellets

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Hydroxide

45 % / 'BAKER ANALYZED'

7063

## ▶ KOH

**M** = 56.11 g/mol  
**1 l** = 1.46 kg  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 22-35  
**S:** 26-36/37/39-45



corrosive

Assay	min. 45.0%
Ammonium Hydroxide Precipitate	max. 0.005%
Chloride (Cl)	max. 0.005%
Potassium Carbonate (K <sub>2</sub> CO <sub>3</sub> )	max. 0.5%
Sodium (Na) (by AAS)	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.001%

**Trace Impurities (in ppm):**

Heavy Metals (as Ag)	max. 5
Iron (Fe)	max. 2
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 5
Phosphate (PO <sub>4</sub> )	max. 2

PRODUCT NO.	PACKING	CONT. BOX
7063.1000	1 l	6
7063.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

# Potas

A  
B  
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Y  
Z

7129

## Potassium Hydroxide

1 mol/l / 'BAKER ANALYZED'

**M** = 56.11 g/mol  
**1 l** = 1.05 kg  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 24-26-36/37/39-45



corrosive

Titer (mol/l) 0.995-1.005

PRODUCT NO.	PACKING	CONT. BOX
7129.1000	1 l	6
7129.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

7203

## Potassium Hydroxide

0.5 mol/l / 'BAKER ANALYZED'

▶ KOH

**M** = 56.11 g/mol  
**1 l** = 1.02 kg  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 34  
**S:** 26-36/37/39-45



corrosive

Titer (mol/l) 0.4975-0.5025

PRODUCT NO.	PACKING	CONT. BOX
7203.5000	5 l	

*Volumetric Solution, ready for use.*

7639

## Potassium Hydroxide

0.23 mol/l / 'BAKER ANALYZED'

▶ KOH

**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



irritant

Molarity (M) 0.228-0.232

PRODUCT NO.	PACKING	CONT. BOX
7639.9010	10 l	

*Volumetric Solution, ready for use.*

7130

## Potassium Hydroxide

0.1 mol/l / 'BAKER ANALYZED'

**M** = 56.11 g/mol  
**1 l** = 1.01 kg  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 24-26



irritant

Titer (mol/l) 0.0995-0.1005

PRODUCT NO.	PACKING	CONT. BOX
7130.1000	1 l	6
7130.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Potassium Hydroxide

1 mol/l / DILUT-IT / 1 equiv. = 56.11g; 1N

4674

▶ KOH

**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 22-35  
**S:** 26-27-37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4674	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Potassium Hydroxide

0.5 mol/l / DILUT-IT

4866

▶ KOH

**NC CODE** 2815 20 90  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4866	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Potassium Hydroxide

0.1 mol/l / DILUT-IT / '1/10 equiv. = 5.611g; 0.1N

4673

▶ KOH

**M** = 56.11 g/mol  
**CAS NO.** 1310-58-3  
**EINECS** 215-181-3  
**NC CODE** 2815 20 90  
**EC NO.** 19 002 00 8  
**UN/ID NO.** 1814  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-27-37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4673	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Potassium Hydroxide in tert-Butanol

0.1 mol/l / 'BAKER ANALYZED'

7113

**M** = 56.11 g/mol  
**1 l** = 0.77 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 2905 14 10  
**UN/ID NO.** 1120  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22-36/38-68/20/21/22  
**S:** 16-26-36/37



harmful



highly flammable

Titer (mol/l) 0.099 - 0.101

PRODUCT NO.	PACKING	CONT. BOX
7113.1000	1 l	6

Volumetric Solution, ready for use.  
KEEP under NITROGEN.

# Potas

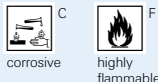
A  
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Q  
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S  
T  
U  
V  
W  
X  
Y  
Z

## Potassium Hydroxide in Ethanol

7131 0.5 mol/l / 'BAKER ANALYZED'

**M** = 56.11 g/mol  
**11** = 0.81 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 2207 10 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-34  
**S:** 26-36/37/39-45

Titer (mol/l) 0.4975-0.5025



PRODUCT NO.	PACKING	CONT. BOX
7131.1000	1 l	6
7131.2500	2.5 l	4
7131.9010	10 l	
7131.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Volumetric Solution, ready for use.

A light red color can occur in time due to product characteristics.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Potassium Hydroxide in Ethanol

7132 0.1 mol/l / 'BAKER ANALYZED'

**M** = 56.11 g/mol  
**11** = 0.81 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 2207 10 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-36/38  
**S:** 16-26-7

Titer (mol/l) 0.0995-0.1005



PRODUCT NO.	PACKING	CONT. BOX
7132.1000	1 l	6
7132.2500	2.5 l	4
7132.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Volumetric Solution, ready for use.

A light red color can occur in time due to product characteristics.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Potassium Hydroxide in IPA

7206 0.1 mol/l / 'BAKER ANALYZED'

**FLASHPOINT** 12 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-36/38  
**S:** 16-24/25-26-37-7/9

Titer (mol/l) 0.0995-0.1005



PRODUCT NO.	PACKING	CONT. BOX
7206.1000	1 l	6

Volumetric Solution, ready for use.

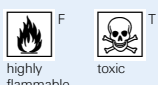
Each lot of this product is standardized potentiometrically against Potassium Hydrogen Phthalate (NIST traceable reference standard).

## Potassium Hydroxide in Methanol

7121 0.5 mol/l / 'BAKER ANALYZED'

▶ **KOH**  
**M** = 56.11 g/mol  
**11** = 0.79 kg  
**FLASHPOINT** 11 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2924  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-23/24/25-34-39/23/24/25  
**S:** 26-36/37/39-45

Titer (mol/l) 0.4975-0.5025



PRODUCT NO.	PACKING	CONT. BOX
7121.1000	1 l	6
7121.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Potassium Hydroxide in Methanol

0.1 mol/l / 'BAKER ANALYZED'

7045

## ▶ KOH

<b>M</b>	= 56.11 g/mol
<b>1 l</b>	= 0.80 kg
<b>FLASHPOINT</b>	11 °C
<b>NC CODE</b>	3822 00 00
<b>UN/ID NO.</b>	2924
<b>ADR/RID</b>	3 FC
<b>IMDG</b>	3/II
<b>R:</b>	11-23/24/25-34-39/23/24/25
<b>S:</b>	36/37/39-45



highly flammable



toxic

Titer (mol/l)	0.0997-0.1003
Chloride (Cl)	max. 10 ppm
Heavy Metals (as Pb)	max. 1 ppm
Iron (Fe)	max. 0.5 ppm
Nitrogen Compounds (as N)	max. 1 ppm

PRODUCT NO.	PACKING	CONT. BOX
7045.1000	1 l	6
7045.2500	2.5 l	4
7045.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Potassium Iodate

'BAKER ANALYZED' / ACS

0226

▶ KIO<sub>3</sub>

<b>M</b>	= 214.00 g/mol
<b>CAS NO.</b>	7758-05-6
<b>EINECS</b>	231-831-9
<b>NC CODE</b>	2829 90 80
<b>UN/ID NO.</b>	1479
<b>ADR/RID</b>	5.1 O2
<b>IMDG</b>	5.1/II
<b>R:</b>	8
<b>S:</b>	17-35



oxidizing

**Exceeds ACS Specifications**

Assay	99.4-100.4%
Chloride and Bromide (as Cl)	max. 0.01%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.001%
Iron (Fe)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.002%
pH of 5% Solution at 25°C	5.0-8.0
Sodium (Na)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.005%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
----------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0226.0250	250 g	

## Potassium Iodate

1/60 mol/l / 1/10 equiv. = 3.567g; 0.1N / DILUT-IT

4676

▶ KIO<sub>3</sub>

<b>M</b>	= 214.00 g/mol
<b>CAS NO.</b>	7758-05-6
<b>EINECS</b>	231-831-9
<b>NC CODE</b>	2829 90 80

PRODUCT NO.	PACKING	CONT. BOX
4676	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Potassium Iodide

'BAKER ANALYZED' / ACS

0227

## ▶ KI

<b>M</b>	= 166.01 g/mol
<b>CAS NO.</b>	7681-11-0
<b>EINECS</b>	231-659-4
<b>NC CODE</b>	2827 60 00

**Meets ACS Specifications**

Assay	min. 99.0%
Barium (Ba)	max. 0.002%
Calcium (Ca)	max. 0.002%
Chloride and Bromide (as Cl)	max. 0.01%
Insoluble Matter	max. 0.005%
Loss on Drying at 150°C	max. 0.2%
Magnesium (Mg)	max. 0.001%
pH of 5% Solution at 25°C	6.0-9.2
Phosphate (PO <sub>4</sub> )	max. 0.001%
Sodium (Na)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.005%

**Trace Impurities (in ppm):**

Heavy Metals (as Pb)	max. 5
Iodate (IO <sub>3</sub> )	max. 3
Iron (Fe)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0227.0250	250 g	6
0227.0500	500 g	6
0227.1000	1 kg	6
0227.9050	50 kg	

# Potas

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## Potassium Iodide

0228 'BAKER'

▶ KI

**M** = 166.01 g/mol  
**CAS NO.** 7681-11-0  
**EINECS** 231-659-4  
**NC CODE** 2827 60 00

Assay (KI)(dried basis)	99.0 - 101.5%
Alkalinity	passes test
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Iodate (IO <sub>3</sub> )	max. 4 ppm
Loss on Drying at 105°C	max. 1.0%
Nitrate, nitrite and ammonia	passes test
Organic Volatile Impurities	passes test
Thiosulfate and Barium	passes test

PRODUCT NO.	PACKING	CONT. BOX
0228.1000	1 kg	6
0228.5000	5 kg	

## Potassium Iodide

0230 'BAKER'

▶ KI

**M** = 166.01 g/mol  
**CAS NO.** 7681-11-0  
**EINECS** 231-659-4  
**NC CODE** 2827 60 00

Assay (dried basis)	99.0-100.5%
Alkalinity	passes test
Appearance of solution	passes test
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iodates (IO <sub>3</sub> )	passes test
Iron (Fe)	max. 20 ppm
Loss on Drying	max. 1.0%
Sulfates (as SO <sub>4</sub> )	max. 150 ppm
Thiosulfates (as S <sub>2</sub> O <sub>3</sub> )	passes test

PRODUCT NO.	PACKING	CONT. BOX
0230.0250	250 g	6
0230.1000	1 kg	6
0230.5000	5 kg	

Stored protected from light.

## Potassium Iodide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Metabisulfite

See Potassium Disulfite

## Potassium Metabisulfite

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Metaperiodate

See Potassium Tetroxiodate(VII)

## Potassium Nitrate

0231 'BAKER ANALYZED' / ACS

▶ KNO<sub>3</sub>

**M** = 101.11 g/mol  
**CAS NO.** 7757-79-1  
**EINECS** 231-818-8  
**NC CODE** 2834 21 00  
**UN/ID NO.** 1486  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/III  
**R:** 8  
**S:** 17-41



<b>Exceeds ACS Specifications</b>	
Assay	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.002%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.002%
Nitrite (NO <sub>2</sub> )	max. 0.001%
pH of 5% Solution at 25°C	4.5-7.0
Sodium (Na)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.003%

<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5
Iodate (IO <sub>3</sub> )	max. 5
Iron (Fe)	max. 2
Phosphate (PO <sub>4</sub> )	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0231.0100	100 g	
0231.1000	1 kg	6

*Innovation is principal to our business.*

## Potassium Nitrate

'BAKER'

0232

KNO <sub>3</sub>		Assay	min. 99%	PRODUCT	PACKING	CONT.
		Insoluble Matter	max. 0.05%	NO.		BOX
M =	101.11 g/mol			0232.1000	1 kg	
CAS NO.	7757-79-1					
EINECS	231-818-8					
NC CODE	2834 21 00					
UN/ID NO.	1486					
ADR/RID	5.1 O2					
IMDG	5.1/III					
R:	8					
S:	17-41					
	O					
	oxidizing					

## Potassium Nitrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Nitrite

'BAKER ANALYZED' / ACS

0233

KNO <sub>2</sub>		<i>Exceeds ACS Specifications</i>		PRODUCT	PACKING	CONT.
		Assay	min. 96.0%	NO.		BOX
M =	85.11 g/mol	Calcium (Ca)	max. 0.005%	0233.0250	250 g	
CAS NO.	7758-09-0	Chloride (Cl)	max. 0.02%			
EINECS	231-832-4	Heavy Metals (as Pb)	max. 0.001%			
NC CODE	2834 10 00	Insoluble Matter	max. 0.01%			
EC NO.	7 011 00 0	Iron (Fe)	max. 0.001%			
UN/ID NO.	1488	Magnesium (Mg)	max. 0.002%			
ADR/RID	5.1 O2	pH of 5% Solution at 25°C	7.0-10.0			
IMDG	5.1/II	Sodium (Na)	max. 0.5%			
R:	25-50-8	Sulfate (SO <sub>4</sub> )	max. 0.01%			
S:	45-61					
	N					
	O					
	T					
	dangerous for the environment					
	oxidizing					
	toxic					

## Potassium Oxalate Monohydrate

'BAKER ANALYZED' / ACS

0235

KOCOCOOK.H <sub>2</sub> O		<i>Exceeds ACS Specifications</i>		PRODUCT	PACKING	CONT.
		Assay	98.5-101.0%	NO.		BOX
M =	184.24 g/mol	Ammonium (NH <sub>4</sub> )	max. 0.002%	0235.9050	50 kg	
CAS NO.	6487-48-5	Chloride (Cl)	max. 0.002%			
EINECS	209-506-8	Heavy Metals (as Pb)	max. 0.002%			
NC CODE	2917 11 00	Insoluble Matter	max. 0.01%			
EC NO.	607 007 00 3	Iron (Fe)	max. 0.001%			
UN/ID NO.	3282	Neutrality	passes test			
ADR/RID	6.1 T3	pH of 5% Solution at 25°C	7.0-8.5			
IMDG	6.1/III	Sodium (Na)	max. 0.02%			
R:	21/22	Substances Darkened by Hot H <sub>2</sub> SO <sub>4</sub>	passes test			
S:	24/25	Sulfate (SO <sub>4</sub> )	max. 0.01%			
	Xn					
	harmful					

Find our up-to-date Product Literature  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

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## Potassium Oxalate Monohydrate

1973 'BAKER'

▶ KOCOCOOK.H<sub>2</sub>O  
**M** = 184.24 g/mol  
**CAS NO.** 583-52-8  
**EINECS** 209-506-8  
**NC CODE** 2917 11 00  
**EC NO.** 607 007 00 3  
**UN/ID NO.** 3282  
**ADR/RID** 6.1 T3  
**IMDG** 6.1/III  
**R:** 21/22  
**S:** 24/25



Assay	min. 99%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.003%
Iron (Fe)	max. 0.001%
Sulfate (SO <sub>4</sub> )	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
1973.1000	1 kg	

## Potassium Permanganate

3227 (max. 0.05 ppm Hg) / 'BAKER ANALYZED' / Suitable for Mercury Determination / ACS

▶ KMnO<sub>4</sub>  
**M** = 158.04 g/mol  
**CAS NO.** 7722-64-7  
**EINECS** 231-760-3  
**NC CODE** 2841 61 00  
**EC NO.** 25 002 00 9  
**UN/ID NO.** 1490  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/II  
**R:** 22-50/53-8  
**S:** 60-61



**Meets ACS Specifications**

Assay	min. 99.0%
Chloride and Chlorate (as Cl)	max. 0.005%
Insoluble Matter	max. 0.2%
Sulfate (SO <sub>4</sub> )	max. 0.02%

**Trace Impurities (in ppm):**

Mercury (Hg)	max. 0.05
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PRODUCT NO.	PACKING	CONT. BOX
3227.0500	500 g	

## Potassium Permanganate

0237 'BAKER ANALYZED' / ACS

▶ KMnO<sub>4</sub>  
**M** = 158.04 g/mol  
**CAS NO.** 7722-64-7  
**EINECS** 231-760-3  
**NC CODE** 2841 61 00  
**EC NO.** 25 002 00 9  
**UN/ID NO.** 1490  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/II  
**R:** 22-50/53-8  
**S:** 60-61



**Meets ACS Specifications**

Assay	min. 99.0%
Chloride and Chlorate (as Cl)	max. 0.005%
Insoluble Matter	max. 0.2%
Sulfate (SO <sub>4</sub> )	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0237.0250	250 g	
0237.1000	1 kg	

## Potassium Permanganate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

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## Potassium Permanganate

0.2 mol/l (1.0N) / 'BAKER ANALYZED'

7247

▶ KMnO <sub>4</sub>			Titer (N)	0.995-1.005	PRODUCT NO.	PACKING	CONT. BOX
M =	158.04 g/mol				7247.1000	1 l	6
CAS NO.	7722-64-7						
EINECS	231-760-3						
NC CODE	2841 61 00						
R:	51/53						
S:	57						
 dangerous for the environment							
					Volumetric Solution, ready for use.		

## Potassium Permanganate

0.02 mol/l 0.1N / 'BAKER ANALYZED'

7057

▶ KMnO <sub>4</sub>			Titer (N)	0.0997-0.1003	PRODUCT NO.	PACKING	CONT. BOX
M =	158.04 g/mol				7057.1000	1 l	6
CAS NO.	7722-64-7				7057.2500	2.5 l	4
EINECS	231-760-3						
NC CODE	2841 61 00						
R:	52/53						
S:	61						
 dangerous for the environment							
					Volumetric Solution, ready for use.		
					Each lot of this product is standardized at 25°C against Sodium Oxalate (NIST traceable reference standard).		

## Potassium Permanganate

0.02 mol/l / 1/10 equiv. = 3.161g; 0.1N / DILUT-IT

4677

▶ KMnO <sub>4</sub>			Titer (N)	0.0997-0.1003	PRODUCT NO.	PACKING	CONT. BOX
M =	158.04 g/mol				4677	1 amp.	6
CAS NO.	7722-64-7						
EINECS	231-760-3						
NC CODE	2841 61 00						
R:	51/53						
S:	57						
 dangerous for the environment							
					Volumetric Concentrate, for dilution to 1 l.		

## Potassium Permanganate

0.002 mol/l 0.01N / DILUT-IT

4873

▶ KMnO <sub>4</sub>			Titer (N)	0.0997-0.1003	PRODUCT NO.	PACKING	CONT. BOX
NC CODE	2841 61 00				4873	1 amp.	6
R:	52/53						
S:	61						
					Volumetric Concentrate, for dilution to 1 l.		

## Potassium Peroxodisulfate

crystal / 'BAKER INSTRA-ANALYZED' / For use in Kjeldahl Nitrogen, Phosphate and Mercury determination. / ACS

0377

▶ K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>			Titer (N)	0.0997-0.1003	PRODUCT NO.	PACKING	CONT. BOX
M =	270.33 g/mol				0377.0500	500 g	6
CAS NO.	7727-21-1				0377.2500	2.5 kg	
EINECS	231-781-8						
NC CODE	2833 40 00						
UN/ID NO.	1492						
ADR/RID	5.1 O2						
IMDG	5.1/III						
R:	22-36/37/38-42/43-8						
S:	22-24-26-37						
 harmful		 oxidizing					
<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>							
			Assay	min. 99.0%			
			Chlorine Compounds (as Cl)	max. 0.001%			
			Heavy Metals (as Pb)	max. 0.001%			
			Insoluble Matter	max. 0.005%			
			Nitrogen Compounds (as N)	max. 0.001%			
<b>Trace Impurities (in ppm):</b>							
			Iron (Fe)	max. 5			
			Manganese (Mn)	max. 2			
			Mercury (Hg)	act. value reported			
			Phosphate (PO <sub>4</sub> )	max. 0.5			

## Potassium Peroxodisulfate

0239 'BAKER ANALYZED'

▶ $K_2S_2O_8$	Assay	min. 99.0%
M = 270.33 g/mol	Chloride (Cl)	max. 0.001%
CAS NO. 7727-21-1	Heavy Metals (as Pb)	max. 0.001%
EINECS 231-781-8	Insoluble Matter	max. 0.005%
NC CODE 2833 40 00	Iron (Fe)	max. 5 ppm
UN/ID NO. 1492	Manganese (Mn)	max. 2 ppm
ADR/RID 5.1 O2	Nitrogen Compounds (as N)	max. 0.05%
IMDG 5.1/III		
R: 22-36/37/38-42/43-8		
S: 22-24-26-37		



PRODUCT NO.	PACKING	CONT. BOX
0239.1000	1 kg	6
0239.5000	5 kg	4

## Potassium Persulfate

See Potassium Peroxodisulfate

## Potassium Phosphate, Dibasic

See Potassium Hydrogen Phosphate Anhydrous

## Potassium Phosphate, Dibasic

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Phosphate n-Hydrate

0243 'BAKER ANALYZED'

▶ $K_3PO_4 \cdot nH_2O$	Chloride (Cl)	max. 0.005%
M = 212.56 g/mol	Dibasic Salt (as $K_2HPO_4$ )	max. 1.5%
CAS NO. 7778-53-2	Excess Alkali (as KOH)	max. 0.5%
EINECS 231-907-1	Heavy Metals (as Pb)	max. 0.001%
NC CODE 2835 24 00	Insoluble Matter	max. 0.01%
R: 36/38	Iron (Fe)	max. 0.001%
	Nitrogen Compounds (as N)	max. 0.002%
	Sulfate ( $SO_4$ )	max. 0.005%
	<b>Trace Impurities (in ppm):</b>	
	Arsenic (As)	max. 1



PRODUCT NO.	PACKING	CONT. BOX
0243.0500	500 g	

## Potassium Phosphate, Monobasic

See Potassium Dihydrogen Phosphate

## Potassium Phosphate, Monobasic

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Phosphate, Tribasic

See Potassium Phosphate n-Hydrate

## Potassium Platinum(IV) Chloride

See Potassium Hexachloroplatinate(IV)

*Are you looking for a specialist  
in solvent applications?*

*See our solvent application program in chapter 3 of this catalogue.*

## Potassium Pyrosulfate

'BAKER INSTRA-ANALYZED' / ACS

0378

▶  $K_2O_7S_2$ 

M = 254.32 g/mol

CAS NO. 7790-62-7

EINECS 232-216-8

NC CODE 2833 29 90

**Meets ACS Specifications. Meets Reagent****Specifications for testing USP/NF monographs**

Acidity (as $H_2SO_4$ )	37.5-38.6%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Magnesium (Mg)	max. 0.001%
NH <sub>4</sub> OH ppt	max. 0.005%
Phosphate ( $PO_4$ )	max. 0.001%
Sodium (Na)	max. 0.01%
Suitability as Acid Flux	passes test
Water ( $H_2O$ )	max. 2.5%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 1
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PRODUCT NO.	PACKING	CONT. BOX
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0378.0500 500 g

Flux Grade.

## Potassium Pyrosulfate

'BAKER ANALYZED' / ACS

0245

▶  $K_2S_2O_7$ 

M = 254.32 g/mol

CAS NO. 7790-62-7

EINECS 232-216-8

NC CODE 2833 29 90

**Exceeds ACS Specifications**

Acidity (as $H_2SO_4$ )	37.5-38.6%
Arsenic (As)	max. 0.0005%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Magnesium (Mg)	max. 0.0005%
Phosphate ( $PO_4$ )	max. 0.001%
Sodium (Na)	max. 0.01%
Water ( $H_2O$ )	max. 2.5%

PRODUCT NO.	PACKING	CONT. BOX
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0245.0100 100 g

## Potassium Pyrosulfite

See Potassium Disulfite

## Potassium Rhodanide

See Potassium Thiocyanate

## Potassium Sodium Tartrate 4aq

'BAKER ANALYZED' / ACS

0246

▶  $KNaC_4H_4O_6 \cdot 4H_2O$ 

M = 282.23 g/mol

CAS NO. 6381-59-5

EINECS 206-156-8

NC CODE 2918 13 00

**Exceeds ACS Specifications**

Assay	99.0-102.0%
Ammonium ( $NH_4$ )	max. 0.002%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	6.0-8.5
Phosphate ( $PO_4$ )	max. 0.001%
Sulfate ( $SO_4$ )	max. 0.005%

**Trace Impurities:**

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
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0246.1000 1 kg 6

0246.9050 50 kg

## Potassium Sodium Tartrate 4aq

'BAKER'

1971

▶  $KNaC_4H_4O_6 \cdot 4H_2O$ 

M = 282.23 g/mol

CAS NO. 6381-59-5

EINECS 206-156-8

NC CODE 2918 13 00

Assay	min. 99.0%
Appearance	passes test
Chloride (Cl)	max. 0.002%
Sulfate ( $SO_4$ )	max. 0.005%

**Trace Impurities:**

Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
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1971.1000 1 kg

## Potassium Sodium Tartrate, 4-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Sorbate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Potassium Sulfate

0247 crystal / 'BAKER ANALYZED' / ACS

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ $K_2SO_4$ <b>M</b> = 174.27 g/mol <b>CAS NO.</b> 7778-80-5 <b>EINECS</b> 231-915-5 <b>NC CODE</b> 3104 30 00	<b>Meets ACS Specifications</b>				
	Assay	min. 99.0%	0247.1000	1 kg	6
	Calcium (Ca)	max. 0.01%			
	Chloride (Cl)	max. 0.001%			
	Insoluble Matter	max. 0.01%			
	Magnesium (Mg)	max. 0.005%			
	pH of 5% Solution at 25°C	5.5-8.5			
	Sodium (Na)	max. 0.02%			
	<b>Trace Impurities (in ppm):</b>				
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			
	Nitrogen Compounds (as N)	max. 5			

## Potassium Sulfate

0512 crystal / 'BAKER'


			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ $K_2SO_4$ <b>M</b> = 174.27 g/mol <b>CAS NO.</b> 7778-80-5 <b>EINECS</b> 231-915-5 <b>NC CODE</b> 3104 30 00	Assay	min. 99%	0512.1000	1 kg	6
	Appearance	passes test			

## Potassium Sulfate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36


## Potassium Tetroxiodate(VII)

1169 crystal / 'BAKER ANALYZED' / ACS

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ $KIO_4$ <b>M</b> = 230.00 g/mol <b>CAS NO.</b> 7790-21-8 <b>EINECS</b> 232-196-0 <b>NC CODE</b> 2829 90 80 <b>UN/ID NO.</b> 1479 <b>ADR/RID</b> 5.1 O2 <b>IMDG</b> 5.1/I <b>R:</b> 8 <b>S:</b> 24/25  oxidizing	<b>Exceeds ACS Specifications</b>				
	Assay (dried basis)	99.8-100.3%	1169.9050	50 kg	
	Other Halogens (as Cl)	max. 0.01%			
	<b>Trace Impurities (in ppm):</b>				
	Manganese (Mn)	max. 0.5			

## Potassium Thiocyanate

0250 'BAKER ANALYZED' / ACS

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ KSCN <b>M</b> = 97.18 g/mol <b>CAS NO.</b> 333-20-0 <b>EINECS</b> 206-370-1 <b>NC CODE</b> 2838 00 00 <b>EC NO.</b> 615 004 00 3 <b>R:</b> 20/21/22-32 <b>S:</b> 13  harmful	<b>Exceeds ACS Specifications</b>				
	Assay	min. 98.5%	0250.0100	100 g	
	Ammonium (NH <sub>4</sub> )	max. 0.003%			
	Appearance	passes test			
	Chloride (Cl)	max. 0.005%			
	Heavy Metals (as Pb)	max. 5 ppm			
	Insoluble in Water	max. 0.005%			
	Iodine-consuming Substances (meq/g)	max. 0.004			
	Iron (Fe)	max. 2 ppm			
	pH of 5% Solution at 25°C	5.3-8.7			
	Sodium (Na)	max. 0.005%			
	Sulfate (SO <sub>4</sub> )	max. 0.005%			

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### Primary Drinking Water Standard I

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6021-01

NC CODE 3822 00 00

R: 36/38

S: 26-37



**Elemental Concent (µg/ml):**

Arsenic (As)	10
Barium (Ba)	100
Cadmium (Cd)	5
Chromium (Cr)	10
Lead (Pb)	10
Selenium (Se)	5
Silver (Ag)	10

**PRODUCT PACKING**

PRODUCT NO.	PACKING	CONT. BOX
6021-01	100 ml	

For use in EPA SW-846 Methods 6010 and 200.7.  
Traceable to NIST.

### Primary Standards

See for detailed information section Reagents for pH Measurements, Titrimetry and Water Determination according to Karl Fischer, page 26

### L-Proline

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Propanal

See Propionaldehyde

### Propanedioic Acid

See Malonic Acid

### 1,2-Propanediol

See Propylene Glycol

### 1,2,3-Propanetriol

See Glycerol

### Propanoic Acid

See Propionic Acid

### 1-Propanol

'BAKER ANALYZED'

8066

► CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH

M = 60.10 g/mol

1 l = 0.80 kg

FLASHPOINT 15 °C

CAS NO. 71-23-8

EINECS 200-746-9

NC CODE 2905 12 00

EC NO. 603 003 00 0

UN/ID NO. 1274

ADR/RID 3 F1

IMDG 3/II

R: 11-41-67

S: 16-24-26-39-7



highly flammable



irritant

Assay (by GC)	min. 99%
2-Propanol (CH <sub>3</sub> CHOHCH <sub>3</sub> ) (by GC)	max. 0.05%
Boiling Range	max. 2.0°C
Color (APHA)	max. 10
Density (g/ml) at 25°C	0.800-0.804
Ethanol (C <sub>2</sub> H <sub>5</sub> OH) (by GC)	max. 0.05%
Free Acid (as C <sub>2</sub> H <sub>5</sub> COOH)	max. 0.001%
Methanol (by GC) (CH <sub>3</sub> OH)	max. 0.05%
Recorded Boiling Point	97.2°C
Residue after Evaporation	max. 0.005%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Substances Reducing KMnO <sub>4</sub> (as O)	max. 0.0003%
Water (H <sub>2</sub> O)	max. 0.1%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

**PRODUCT PACKING**

PRODUCT NO.	PACKING	CONT. BOX
8066.1000	1 l	6
8066.2500	2.5 l	4

# Propa

A  
B  
C  
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E  
F  
G  
H  
I  
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K  
L  
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V  
W  
X  
Y  
Z

9334

## 2-Propanol

'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

▶ CH<sub>3</sub>CHOHCH<sub>3</sub>  
**M** = 60.10 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** 12 °C  
**CAS NO.** 67-63-0  
**EINECS** 200-661-7  
**NC CODE** 2905 12 00  
**EC NO.** 603 003 00 4  
**UN/ID NO.** 1219  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-36-37  
**S:** 16-24/25-26-7



Assay (by GC) (corrected for water) min. 99.7%  
 Color (APHA) max. 10  
 Residue after Evaporation max. 1 ppm  
 Water (H<sub>2</sub>O) max. 0.1%  
**ECD Sensitive Impurities (as Heptachlor Epoxide):**  
 Single Impurity Peak (pg/ml) max. 10  
**FID-Sensitive Impurities (as 2-Octanol):**  
 Single Impurity Peak (ng/ml) max. 5

PRODUCT NO.	PACKING	CONT. BOX
9334.1000	1 l	6
9334.4000	4 l Glass	

9830

## 2-Propanol

BAKER ANALYZED LC-MS Reagent

▶ CH<sub>3</sub>CHOHCH<sub>3</sub>  
**M** = 60.10 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** 12 °C  
**CAS NO.** 67-63-0  
**EINECS** 200-661-7  
**NC CODE** 2905 12 00  
**EC NO.** 603 117 00 0  
**UN/ID NO.** 1219  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-36-67  
**S:** 16-24/25-26-7



**Certificate Provided Reporting Actual Lot Analysis**  
 Assay (by GC) min. 99.5%  
 Residue after Evaporation max. 1 ppm  
 Water (H<sub>2</sub>O) max. 0.02%  
**LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1% (v/v) formic acid:**  
 at 220 nm max. 0.005  
 at 254 nm max. 0.001

**LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:**  
 Positive ESI-MS Sensitive Impurities (as Reserpine) max. 50 ng/ml

**Product Information (not specifications):**  
 Density (g/ml) at 20°C 0.78  
**Trace Impurities (in ppb):**  
 Aluminium (Al) max. 50  
 Calcium (Ca) max. 50  
 Iron (Fe) max. 50  
 Magnesium (Mg) max. 50  
 Potassium (K) max. 50  
 Sodium (Na) max. 50  
**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 220 nm max. 0.30  
 at 254 nm max. 0.02  
 at 280 nm max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9830.1000GL	1 l Glass	6

Element concentrations are at time of lot release.

8175

## 2-Propanol

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

▶ CH<sub>3</sub>CHOHCH<sub>3</sub>  
**M** = 60.10 g/mol  
**1 l** = 0.78 kg  
**FLASHPOINT** 12 °C  
**CAS NO.** 67-63-0  
**EINECS** 200-661-7  
**NC CODE** 2905 12 00  
**EC NO.** 603 117 00 0  
**UN/ID NO.** 1219  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-36-67  
**S:** 16-24/25-26-7



Assay (by GC) (corrected for water) min. 99.7%  
 Residue after Evaporation (in ppm) max. 2  
 Water (H<sub>2</sub>O) max. 0.03%  
**Product Information (not specifications):**  
 Density (g/ml) at 20°C 0.785  
**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 225 nm max. 0.16  
 at 254 nm max. 0.02  
 at 280 nm max. 0.01  
 at 350 nm max. 0.01  
 UV Cut-off, nm max. 205

PRODUCT NO.	PACKING	CONT. BOX
8175.1000	1 l	6
8175.2500	2.5 l	4
8175.5000	5 l EcoTainer	

EcoTainer, the metal solvent can for more safety in the lab.

Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.



# Histopathology

The reagents program for histopathology contains reagents for histology and cytology.

**Major fields of application for histology and cytology:**

- Hospital

**We offer a complete product line:**

*Histology*

- Fixatives: formaldehyde buffered: pH 7.0 and 40mM phosphate
- Waste disposal: formalin neutraliser to neutralise formaldehyde waste
- Xylene/toluene replacement: UltraClear, an iso-paraffin clearing agent
- Paraffin: UltraPar 54-56°C, our top quality paraffin
- Mounting medium: UltraKitt, our xylene/toluene free cover slipping reagent. Patent for this product is granted and filed
- H&E stains: hematoxyline, is available according to Mayer or modified according to Gill II / Harris. In addition we also offer a Scotch solution, which enables a stable and optimised bluing of the cell nucleus. Eosine Y stains are offered as an alcoholic

or as an aqueous solution. Our Eosine Y counter stains are optimised in combination with our hematoxyline stains

- Giemsa: we offer a high quality Giemsa for staining of tissue sections, such as gastric sections
- Solvents: wide range of alcohols, but also Histo grade xylene and toluene

*Cytology*

- Fixatives: Cervix Spray fixative
- Papanicolaou staining: we offer Papanicolaou 1 (hematoxyline according to Gill II / Harris), Papanicolaou 2A (Orange G6), Papanicolaou 2B (Orange II) and Papanicolaou 3B (EA 50)
- May Grünwald and Giemsa, Wright and Leishman: we offer a broad range of eosine-methylene blue stains for cytology smears and bone marrow
- Other products: see also UltraClear, UltraKitt and our Histo grade Solvent range

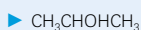
For more details and recommended staining procedures, product information bulletins are available at our website

[www.jtbaker.com](http://www.jtbaker.com)

# Propa

## 2-Propanol

8067 'BAKER ANALYZED' / ACS



**M** = 60.10 g/mol

**1 l** = 0.78 kg

**FLASHPOINT** 12 °C

**CAS NO.** 67-63-0

**EINECS** 200-661-7

**NC CODE** 2905 12 00

**EC NO.** 603 117 00 0

**UN/ID NO.** 1219

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-36-67

**S:** 16-24/25-26-7



highly flammable



irritant

### Exceeds ACS Specifications

Assay	min. 99.5%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Solubility in Water	passes test
Titration Acid or Base (meq/g)	max. 0.0001
Water (H <sub>2</sub> O)	max. 0.1%

### Trace Impurities (in ppm):

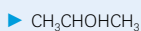
Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8067.1000	1 l	6
8067.2500	2.5 l	4
8067.5000	5 l EcoTainer	4
8067.9020	20 l	
8067.9025	25 l	
8067.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## 2-Propanol

8068 'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS



**M** = 60.10 g/mol

**1 l** = 0.78 kg

**FLASHPOINT** 12 °C

**CAS NO.** 67-63-0

**EINECS** 200-661-7

**NC CODE** 2905 12 00

**EC NO.** 603 117 00 0

**UN/ID NO.** 1219

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-36-67

**S:** 16-24/25-26-7



highly flammable



irritant

### Exceeds ACS Specifications

Assay	min. 99.5%
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Titration Acid or Base (meq/g)	max. 0.0001
Water (H <sub>2</sub> O)	max. 0.05%

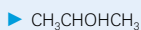
### Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm	max. 1.00
at 220 nm	max. 0.40
at 230 nm	max. 0.20
at 245 nm	max. 0.08
at 260 nm	max. 0.04
at 275 nm	max. 0.03
at 300 nm	max. 0.02
at 330-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8068.1000	1 l	6
8068.2500	2.5 l	4

## 2-Propanol

8119 'BAKER'



**M** = 60.10 g/mol

**1 l** = 0.78 kg

**FLASHPOINT** 12 °C

**CAS NO.** 67-63-0

**EINECS** 200-661-7

**NC CODE** 2905 12 00

**EC NO.** 603 117 00 0

**UN/ID NO.** 1219

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-36-67

**S:** 16-24/25-26-7



highly flammable



irritant

Assay (by GC)	min. 99%
Acidity (as CH <sub>3</sub> COOH)	max. 0.002%
Alkalinity (as NH <sub>3</sub> )	max. 0.002%
Boiling Range	max. 1.0°C
Density (g/ml) at 25°C	0.781-0.783
Recorded Boiling Point	82°C
Residue after Evaporation	max. 0.005%
Water (H <sub>2</sub> O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8119.1000	1 l	6
8119.2500	2.5 l	4
8119.5000	5 l EcoTainer	4
8119.9025	25 l	
8119.9200	200 l	



EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.



**2-Propanol**

99.5% / HISTO GRADE

3401

▶ CH <sub>3</sub> CHOHCH <sub>3</sub>		Assay	min. 99.5%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	60.10 g/mol			3401.5000	5 l Jerrycan	
<b>1 l</b> =	0.78 kg			3401.9010	10 l Jerrycan	
<b>FLASHPOINT</b>	12 °C			3401.9025	25 l Jerrycan	
<b>CAS NO.</b>	67-63-0					
<b>EINECS</b>	200-661-7					
<b>NC CODE</b>	2905 12 00					
<b>EC NO.</b>	603 117 00 0					
<b>UN/ID NO.</b>	1219					
<b>ADR/RID</b>	3 F1					
<b>IMDG</b>	3/II					
<b>R:</b>	11-36-67					
<b>S:</b>	16-24/25-26-7					
	F		Xi			
highly flammable		irritant				

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

**2-Propanol**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**2-Propanol CMOS, Finyte, Finyte-1, Ultryte Grade**See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)**2-Propanol 70% Solution, Sterile**

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



**Propenamide**

See Acrylamide

**Propionaldehyde**

'BAKER'

8819

▶ CH <sub>3</sub> CH <sub>2</sub> CHO		Assay (by GC)	min. 99%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	58.08 g/mol	Boiling Point	47-49°C	8819.1000	1 l	
<b>1 l</b> =	0.80 kg					
<b>FLASHPOINT</b>	-20 °C					
<b>CAS NO.</b>	123-38-6					
<b>EINECS</b>	204-623-0					
<b>NC CODE</b>	2912 19 00					
<b>EC NO.</b>	605 018 00 8					
<b>UN/ID NO.</b>	1275					
<b>ADR/RID</b>	3 F1					
<b>IMDG</b>	3/II					
<b>R:</b>	11-36/37/38					
<b>S:</b>	16-29-9					
	F		Xi			
highly flammable		irritant				

*The four cornerstones of doing business with us: Innovation, Collaboration, Support and Quality.*

## Propionic Acid

6034 'BAKER ANALYZED'

▶  $\text{CH}_3\text{CH}_2\text{COOH}$   
**M** = 74.08 g/mol  
**1 l** = 0.99 kg  
**FLASHPOINT** 54 °C  
**CAS NO.** 79-09-4  
**EINECS** 201-176-3  
**NC CODE** 2915 50 00  
**EC NO.** 607 089 00 0  
**UN/ID NO.** 1848  
**ADR/RID** 8 C3  
**IMDG** 8/III  
**R:** 34  
**S:** 23-36-45



Assay (acidimetric) min. 99.5%  
 Boiling Range 139-142°C  
 Density (g/ml) at 25°C 0.984-0.989  
 Residue after Evaporation max. 0.005%  
 Water (H<sub>2</sub>O) max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
6034.0500	500 ml	

## ▶ iso-Propyl Alcohol

See 2-Propanol

## ▶ n-Propyl Alcohol

See 1-Propanol

## ▶ iso-Propyl Ether

See Diisopropyl Ether

## Propylene Carbonate

7439 'BAKER'

▶  $\text{OCH}(\text{CH}_3)\text{CH}_2\text{OCO}$   
**M** = 102.09 g/mol  
**1 l** = 1.20 kg  
**FLASHPOINT** 135 °C  
**CAS NO.** 108-32-7  
**EINECS** 203-572-1  
**NC CODE** 2920 90 10  
**EC NO.** 607 194 00 1  
**R:** 36  
**S:** 26



Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
7439.1000	1 l	

## Propylene Glycol

7064 'BAKER'

▶  $\text{CH}_2\text{CHOHCH}_2\text{OH}$   
**M** = 76.10 g/mol  
**1 l** = 1.03 kg  
**FLASHPOINT** 99 °C  
**CAS NO.** 57-55-6  
**EINECS** 200-338-0  
**NC CODE** 2905 32 00

Acidity (as  $\text{CH}_3\text{COOH}$ ) max. 0.005%  
 Boiling Range 185-189°C  
 Chloride (Cl) max. 0.001%  
 Density (g/ml) at 25°C 1.032-1.034  
 Residue after Ignition max. 0.005%  
 Water (H<sub>2</sub>O) max. 0.2%

### Trace Impurities (in ppm):

Arsenic (As) max. 1  
 Heavy Metals (as Pb) max. 5

PRODUCT NO.	PACKING	CONT. BOX
7064.0100	100 ml	
7064.1000	1 l	

*Innovation is principal to our business.*

### Propylene Glycol

'BAKER'

7169

<p>▶ <chem>CH3CHOHCH2OH</chem></p> <p><b>M</b> = 76.10 g/mol</p> <p><b>1 l</b> = 1.03 kg</p> <p><b>FLASHPOINT</b> 99 °C</p> <p><b>CAS NO.</b> 57-55-6</p> <p><b>EINECS</b> 200-338-0</p> <p><b>NC CODE</b> 2905 32 00</p>	Assay	min. 99.5%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Acidity	passes test	<b>NO.</b>		<b>BOX</b>
	Appearance of solution	passes test	7169.2500	2.5 l	
	Chloride (Cl)	max. 0.007%	7169.9025	25 l	
	Density (g/ml) at 20°C	1.035-1.040	7169.9200	200 l	
	Identification	passes test			
	Organic Volatile Impurities	passes test			
	Oxidizing substances	passes test			
	Reducing Substances	passes test			
	Refractive Index at 25°C, n <sub>D</sub> <sup>25</sup>	1.431-1.433			
	Residue on Ignition (as SO <sub>4</sub> )	max. 0.007%			
	Specific Gravity 25°C/25°C	1.035-1.037			
	Sulfate (SO <sub>4</sub> )	max. 0.006%			
	Water (H <sub>2</sub> O)	max. 0.2%			
	<b>Trace Impurities (in ppm):</b>				
Heavy Metals (as Pb)	max. 5 ppm				



### Propylene Glycol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Propylene Oxide

'BAKER'

8822

<p>▶ <chem>CH3C(CH2)O</chem></p> <p><b>M</b> = 58.08 g/mol</p> <p><b>1 l</b> = 0.83 kg</p> <p><b>FLASHPOINT</b> -37 °C</p> <p><b>CAS NO.</b> 75-56-9</p> <p><b>EINECS</b> 200-879-2</p> <p><b>NC CODE</b> 2910 20 00</p> <p><b>EC NO.</b> 603 055 00 4</p> <p><b>UN/ID NO.</b> 1280</p> <p><b>ADR/RID</b> 3 F1</p> <p><b>IMDG</b> 3/I</p> <p><b>R:</b> 12-20/21/22-36/37/38-45-46</p> <p><b>S:</b> 45-53</p>	Assay (by GC)	min. 99%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Boiling Point	33-35°C	<b>NO.</b>		<b>BOX</b>
	Color (APHA)	max. 10	8822.0100	100 ml	
	Water (H <sub>2</sub> O)	max. 0.01%	8822.0500	500 ml	
			8822.1000	1 l	
			8822.9200	200 l	
	 F+				
	 T				
	extremely flammable				
	toxic				

### Propylparaben

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### PRS-1000 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### PRS-2000 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### PRS-3000 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Pumice Stone

granular 1.5 mm / 'BAKER'

1926

<b>NC CODE</b> 2513 19 00	Acid Soluble Substances	max. 6.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Iron (Fe)	passes test	<b>NO.</b>		<b>BOX</b>
	Water Soluble Substances	max. 0.20%	1926.1000	1 kg	

### Pumice Stone

granular 3 mm / 'BAKER'

1927

<b>NC CODE</b> 2513 19 00	Acid Soluble Substances	max. 6.0%	<b>PRODUCT</b>	<b>PACKING</b>	<b>CONT.</b>
	Iron (Fe)	passes test	<b>NO.</b>		<b>BOX</b>
	Water Soluble Substances	max. 0.20%	1927.1000	1 kg	

A  
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W  
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Y  
Z

## Purge and Trap Solvents

See for detailed information section Solvent applications, page 22

### Pyridine

9393 Low Water / 'BAKER HPLC ANALYZED' / for Use in Liquid Chromatography and Spectrophotometry

▶ N:CHCH:CHCH:CH

**M** = 79.10 g/mol

**1 l** = 0.98 kg

**FLASHPOINT** 17 °C

**CAS NO.** 110-86-1

**EINECS** 203-809-9

**NC CODE** 2933 31 00

**EC NO.** 613 002 00 7

**UN/ID NO.** 1282

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20/21/22

**S:** 26-28



harmful



highly flammable

Assay (by GC) (corrected for water)	min. 99.0%
Ammonia (NH <sub>3</sub> )	max. 0.002%
Color (APHA)	max. 10
Reducing Substances	passes test
Residue after Evaporation	max. 5 ppm
Solubility in Water	passes test
Sulfate (SO <sub>4</sub> )	max. 0.001%
Water (by KF, volumetric)	max. 0.01%

#### Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Copper (Cu)	max. 5

#### Ultraviolet Absorbance (1.00-cm path vs water):

at 330 nm	max. 1.00
at 340 nm	max. 0.10
at 350 nm	max. 0.01
at 375 nm	max. 0.01
at 400 nm	max. 0.005

PRODUCT NO.	PACKING	CONT. BOX
9393.1000	1 l	

### Pyridine

8073 'BAKER ANALYZED' / ACS

▶ C<sub>5</sub>H<sub>5</sub>N

**M** = 79.10 g/mol

**1 l** = 0.98 kg

**FLASHPOINT** 17 °C

**CAS NO.** 110-86-1

**EINECS** 203-809-9

**NC CODE** 2933 31 00

**EC NO.** 613 002 00 7

**UN/ID NO.** 1282

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-20/21/22

**S:** 26-28



harmful



highly flammable

#### Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Ammonia (NH <sub>3</sub> )	max. 0.002%
Chloride (Cl)	max. 0.001%
Reducing Substances	passes test
Residue after Evaporation	max. 0.002%
Solubility in Water	passes test
Suitability for OH groups determ. by phthalisation	passes test
Sulfate (SO <sub>4</sub> )	max. 0.001%
Water (H <sub>2</sub> O)	max. 0.1%

#### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.1
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 1.0

PRODUCT NO.	PACKING	CONT. BOX
8073.0500	500 ml	6
8073.1000	1 l	6
8073.2500	2.5 l	4

EcoTainer, the metal solvent can for more safety in the lab.

Mallinckrodt Baker's chemistry  
is Part of a pure process™.

### Pyridine

'BAKER'

8074

▶ C<sub>5</sub>H<sub>5</sub>N

**M** = 79.10 g/mol  
**1 l** = 0.98 kg  
**FLASHPOINT** 17 °C  
**CAS NO.** 110-86-1  
**EINECS** 203-809-9  
**NC CODE** 2933 31 00  
**EC NO.** 613 002 00 7  
**UN/ID NO.** 1282  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/21/22  
**S:** 26-28



Chloride (Cl)	max. 0.005%
Residue after Evaporation	max. 0.005%
Water (H <sub>2</sub> O)	max. 0.25%

PRODUCT NO.	PACKING	CONT. BOX
8074.2500	2.5 l	
8074.9025	25 l	

### Pyridoxine Hydrochloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### 1-(2-Pyridylazo)-2-naphthol

See PAN

### Pyrogallol

'BAKER ANALYZED' / ACS

1171

▶ 1,2,3-(HO)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>

**M** = 126.11 g/mol  
**CAS NO.** 87-66-1  
**EINECS** 201-762-9  
**NC CODE** 2907 29 00  
**EC NO.** 604 009 00 6  
**UN/ID NO.** 2811  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 20/21/22-40-52/53  
**S:** 36/37-61



#### Meets ACS Specifications

Chloride (Cl)	max. 0.001%
Iron (Fe)	max. 0.001%
Melting Point	131.0-135.0°C
Residue after Ignition	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.005%

#### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
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PRODUCT NO.	PACKING	CONT. BOX
1171.0100	100 g	
1171.9050	50 kg	

### Pyruvic Acid, Sodium Salt

See Sodium Pyruvate

### Quartzsand

white / 'BAKER'

1983

<b>NC CODE</b> 2506 10 00	Chloride (Cl)	max. 0.01%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Iron (Fe)	max. 0.02%			
	Loss after Ignition	max. 0.2%			
	Soluble in HCl	max. 0.5%			

1983.1000	1 kg	6
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### Quartzsand

Granular 1-2 mm / 'BAKER'

1984

<b>NC CODE</b> 2506 10 00	Chloride (Cl)	max. 0.01%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Iron (Fe)	max. 0.01%			
	Loss after Ignition	max. 0.5%			
	Soluble in HCl	max. 0.05%			

1984.1000	1 kg	
-----------	------	--

### Quinol

See Hydroquinone

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## RBS35

7348

R: 36/38

S: 26



PRODUCT NO.	PACKING	CONT. BOX
7348.5000	5   EcoTainer	

## Reagent for silicic acid determination

7488 'BAKER ANALYZED' / Sulfuric acid, Solution C (reagent 115).

CAS NO. 7664-93-9

EINECS 231-163-9

NC CODE 3822 00 00

EC NO. 16 020 00 8

UN/ID NO. 2796

ADR/RID 8 C1

IMDG 8/II

R: 36/38

S: 26



PRODUCT NO.	PACKING	CONT. BOX
7488.9020	20 l Polycube	

Volumetric Solution, ready for use.  
Contains: Silicate-free water, Sulfuric acid. According to Bran and Lübbe.

## Reagent for silicic acid determination

7534 'BAKER ANALYZED' / Reduction solution (Reagent 294)

NC CODE 3822 00 00

R: 43-52/53

S: 24-26-37-61



PRODUCT NO.	PACKING	CONT. BOX
7534.9020	20 l	

Contains: Silicate-free water, 4-(Methylamino)-phenolsulfate, Potassium Disulfite.

## Reagent for silicic acid determination

7535 'BAKER ANALYZED' / Molybdate solution (Reagent 293)

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
7535.9020	20 l Polycube	

Contains: Silicate-free water, Ammonium heptamolybdate tetrahydrate, Silicate-free Ammonium Hydroxide.

## Reinecke Salt

1388 'BAKER ANALYZED' / ACS

▶  $\text{NH}_4[\text{Cr}(\text{SCN})_4(\text{NH}_3)_2] \cdot \text{H}_2\text{O}$

M = 354.44 g/mol

CAS NO. 13573-16-5

EINECS 237-003-3

NC CODE 2842 90 90

### Meets ACS Specifications

Assay	min. 93.0%
Insoluble in Dilute HCl	max. 0.05%
Sensitivity	passes test

PRODUCT NO.	PACKING	CONT. BOX
1388.0025	25 g Glass	

## Residue Analysis Solvents

See for detailed information section Solvent applications, page 22

## Resorcinol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## REZI-38 Positive Resist Stripper

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Rhodamine B

'BAKER'

1389

▶ $C_{28}H_{31}ClN_2O_3$ M = 479.02 g/mol CAS NO. 81-88-9 EINECS 201-383-9 NC CODE 3204 19 00 R: 41-52/53 S: 22-26-39-61	Sensitivity as Indicator	passes test	PRODUCT NO. 1389.0100	PACKING 100 g	CONT. BOX
	Solubility	passes test			
Xi irritant					

## Saccharin Sodium

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Safety Products

See for detailed information section Safety, page 400

## Salicylaldehyde

'BAKER'

7066

▶ $HOC_6H_4CHO$ M = 122.12 g/mol I I = 1.16 kg FLASHPOINT 78 °C CAS NO. 90-02-8 EINECS 201-961-0 NC CODE 2912 49 00 UN/ID NO. 2810 ADR/RID 6.1 T1 IMDG 6.1/III R: 21/22 S: 36/37	Assay (by GC)	min. 98.0%	PRODUCT NO. 7066.0100 7066.1000	PACKING 100 ml 1 l	CONT. BOX
	Density (g/ml) at 20/4°C	1.164-1.166			
Xn harmful	Freezing Point	1-2°C			

## Salicylic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sand

See Quartsand

## Sand

washed and ignited / 'BAKER'

0252

NC CODE 2505 90 00	Appearance	passes test	PRODUCT NO.	PACKING	CONT. BOX
			0252.1000	1 kg	6
			0252.5000	5 kg	4
			0252.9050	50 kg	

## Scandium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5776

▶ Sc M = 44.96 g/mol NC CODE 3822 00 00 R: 36/38 S: 26-37	<b>Certificate Provided Reporting Actual Lot Analysis</b>		PRODUCT NO. 5776.0100	PACKING 100 ml	CONT. BOX
	Scandium (Sc)	998-1002 µg/ml			
Xi irritant	Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.				

## Scandium 10000 µg/ml

5742 (Matrix: 7% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Sc

**M** = 44.96 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 2031  
**ADR/RID** 8 CO1  
**IMDG** 8/II  
**R:** 34  
**S:** 26-36/39-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

Scandium (Sc) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5742.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Scotch Buffer

3872 HISTO GRADE / Bluing solution

**NC CODE** 382 20 00

Ready to use Bluing Solution for use in HE Staining

PRODUCT NO.	PACKING	CONT. BOX
3872.5000	5 l Polycube	

## Sebacoyl Chloride

6064 'BAKER'

▶  $\text{C}_{18}\text{H}_{33}\text{Cl}_2\text{O}_4$

**M** = 239.15 g/mol  
**1 l** = 1.13 kg

**FLASHPOINT** 66 °C  
**CAS NO.** 111-19-3  
**EINECS** 203-843-4  
**NC CODE** 2917 19 90

**UN/ID NO.** 3265  
**ADR/RID** 8 C3  
**IMDG** 8/II  
**R:** 34  
**S:** 26-36/37/39-45



corrosive

Assay (as Chlorine) min. 97%

PRODUCT NO.	PACKING	CONT. BOX
6064.0100	100 ml	

## Selenium

2036 Granular / 'BAKER ANALYZED'

▶ Se

**M** = 78.96 g/mol  
**CAS NO.** 7782-49-2  
**EINECS** 231-957-4  
**NC CODE** 2804 90 00  
**EC NO.** 34 001 00 2  
**UN/ID NO.** 3283  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/III  
**R:** 23/25-33-53  
**S:** 20/21-28-45-61



toxic

Heavy Metals (as Pb) max. 0.01%  
 Iron (Fe) max. 0.05%  
 Nitrogen (N) max. 0.1%  
 Residue on Ignition max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX
2036.0100	100 g	

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)



## Selenium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5777

▶ Se

M = 78.96 g/mol  
 NC CODE 3822 00 00  
 EC NO. 34 002 00 8  
 R: 36/37/38  
 S: 26-37



## Certificate Provided Reporting Actual Lot Analysis

Selenium (Se) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5777.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Selenium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6938

▶ Se

M = 78.96 g/mol  
 NC CODE 3822 00 00  
 EC NO. 34 002 00 8  
 R: 36/38  
 S: 26-37



Selenium (Se) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6938.0100	100 ml	
6938.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Selenium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5743

▶ Se

M = 78.96 g/mol  
 NC CODE 3822 00 00  
 EC NO. 34 002 00 8  
 R: 33-36/38  
 S: 26-36



## Certificate Provided Reporting Actual Lot Analysis

Selenium (Se) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5743.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Self-closing tap adaptor

4532

PRODUCT NO.	PACKING	CONT. BOX
4532	1 unit	

## Self-closing tap for flammable solvents in 10 l drums

4535

PRODUCT NO.	PACKING	CONT. BOX
4535	1 unit	

## Self-closing tap for flammable solvents in 25 l tin-cans

4531

PRODUCT NO.	PACKING	CONT. BOX
4531	1 unit	

## Self-closing tap for flammable solvents in 200 l drums

4529

PRODUCT NO.	PACKING	CONT. BOX
4529	1 unit	

## L-Serine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Shorr Staining Solution

3876 Cytology

1 l = 0.90 kg  
**FLASHPOINT** 13 °C  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1992  
**ADR/RID** 3 FT1  
**IMDG** 3/II  
**R:** 11-20/21/22-68/20/21/22  
**S:** 16-33-36/37-7/9



*Shorr's stain for hormonal cytodiagnosis*

PRODUCT NO.	PACKING	CONT. BOX
3876.1000	1 l Glass	
3876.2500	2.5 l Glass	

## Silica Gel

0253 0.063 - 0.200 mm / 'BAKER ANALYZED' / for Chromatography

**EINECS** 215-683-2 Alcohol-Ether Soluble Substances max. 0.05%  
**NC CODE** 2811 22 00 Loss on Drying max. 6.0%

PRODUCT NO.	PACKING	CONT. BOX
0253.0500	500 g	
0253.1000	1 kg	
0253.5000	5 kg	
0253.9025	25 kg	

## Silica Gel

1827 with Indicator: Cobalt(II)chloride / 3-6 mm / 'BAKER'

**EINECS** 215-683-2 Appearance passes test  
**NC CODE** 2811 22 00  
**R:** 49  
**S:** 45-53



PRODUCT NO.	PACKING	CONT. BOX
1827.1000	1 kg	6

## Silica Gel 7

5056 Powder / 'BAKER TLC' / for Thin Layer Chromatography

**CAS NO.** 1343-98-2  
**EINECS** 215-683-2  
**NC CODE** 2811 22 00

**Recommended Slurry proportions: 25g/in 60 ml H<sub>2</sub>O**

Chloride (Cl)	max. 0.02%
Heavy Metals (as Pb)	max. 0.004%
Iron (Fe)	max. 0.01%
Loss on Ignition	max. 20.0%
Nonvolatile with HF	max. 0.3%
Particle Size (< 40µm)	min. 95%
pH (10% slurry)	7.0-8.0
Suitability for TLC	passes test

PRODUCT NO.	PACKING	CONT. BOX
5056.0500	500 g	

## Silica Gel IB-2

5003 'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

PRODUCT NO.	PACKING	CONT. BOX
5003	25 sheets	

A flexible sheet coated with high purity silica gel containing an inert binder.  
 The binder does not char on sulfuric acid-heat treatment.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

### Silica Gel IB2-F

'BAKER-FLEX' / Flexible TLC Sheets, 20 X 20 cm

5004

PRODUCT NO.	PACKING	CONT. BOX
5004	25 sheets	

A flexible sheet coated with high purity silica gel containing an inert binder and a fluorescent indicator (activated at 2540 Å). Neither the binder nor the indicator chars on sulfuric acid-heat treatment.

### Silicic Acid

'BAKER ANALYZED'

0324-01

▶ SiO <sub>2</sub> .nH <sub>2</sub> O	Assay (as SiO <sub>2</sub> )	min. 84%
<b>CAS NO.</b> 1343-98-2	Chloride (Cl)	max. 0.01%
<b>EINECS</b> 215-683-2	Heavy Metals (as Pb)	max. 0.002%
<b>NC CODE</b> 2811 22 00	Iron (Fe)	max. 0.002%
	Loss on Ignition (as H <sub>2</sub> O)	max. 16%
	Nonvolatile with HF	max. 0.2%
	Sulfate (SO <sub>4</sub> )	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0324-01	500 g HDPE	

### Silicon 1000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5778

▶ Si	<b>Certificate Provided Reporting Actual Lot Analysis</b>	
<b>M</b> = 28.09 g/mol	Silicon (Si)	998-1002 µg/ml
<b>1 l</b> = 1.03 kg		
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 9 012 00 0		
<b>R:</b> 36/38		
<b>S:</b> 26-37		

PRODUCT NO.	PACKING	CONT. BOX
5778.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Silicon 1000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6939

▶ Si	Silicon (Si)	998-1002 µg/ml
<b>M</b> = 28.09 g/mol		
<b>1 l</b> = 1.00 kg		
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 9 012 00 0		
<b>R:</b> 36/38		
<b>S:</b> 26-37		

PRODUCT NO.	PACKING	CONT. BOX
6939.0100	100 ml	
6939.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

### Silicon 10000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5744

▶ Si	<b>Certificate Provided Reporting Actual Lot Analysis</b>	
<b>M</b> = 28.09 g/mol	Silicon (Si)	9980-10020 µg/ml
<b>NC CODE</b> 3822 00 00		
<b>EC NO.</b> 9 012 00 0		
<b>R:</b> 36/38		
<b>S:</b> 26-37		

PRODUCT NO.	PACKING	CONT. BOX
5744.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

### Silicone Emulsion

See Antifoam B



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

# Silve

## Silver 1000 µg/ml

5779 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ag

**M** = 107.87 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



**Certificate Provided Reporting Actual Lot Analysis**

Silver (Ag) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5779.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Silver 1000 µg/ml

6940 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ag

**M** = 107.87 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



Silver (Ag) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6940.0100	100 ml	
6940.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Silver 1000 µg/ml

6821 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ag

**M** = 107.87 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



Silver (Ag) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6821.0100	100 ml	
6821.0500	500 ml	

Silver nitrate in nitric acid 0.5 mol/l.

## Silver 10000 µg/ml

5745 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ag

**M** = 107.87 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



**Certificate Provided Reporting Actual Lot Analysis**

Silver (Ag) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5745.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Silver Chloride

1180 'BAKER ANALYZED'

▶ AgCl

**M** = 143.32 g/mol  
**CAS NO.** 7783-90-6  
**EINECS** 232-033-3  
**NC CODE** 2843 29 00

Assay	min. 99.0%
Heavy Metals (as Pb)	max. 0.005%
Iron (Fe)	max. 0.003%
Nitrate (NO <sub>3</sub> )	max. 0.001%
<b>Trace Impurities (in ppm):</b>	
Copper (Cu)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1180.0025	25 g Glass	
1180.0100	100 g	
1180.1000	1 kg	

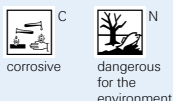
### Silver Nitrate

'BAKER ANALYZED' / ACS

1182

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**EC NO.** 47 001 00 2  
**UN/ID NO.** 1493  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/II  
**R:** 34-50/53  
**S:** 26-45-60-61



#### Exceeds ACS Specifications

Assay	min. 99.9%
Clarity of Solution	passes test
Free Acid	passes test
Lead (Pb)	max. 0.001%
Substances not Precipitated by HCl	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.002%

#### Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Copper (Cu)	max. 2
Iron (Fe)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
1182.0025	25 g Glass	6
1182.0100	100 g	6
1182.0250	250 g	6
1182.1000	1 kg	

### Silver Nitrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

### Silver Nitrate

1 ml = 1 mg Chloride / 'BAKER ANALYZED' / Standard Solution

7095

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**R:** 52/53  
**S:** 61

Titer 0.995-1.005mg Cl/ml

#### Trace Impurities (in ppm):

Chloride (Cl)	max. 1
Sulfate (SO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7095.1000	1 l	6
7095.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

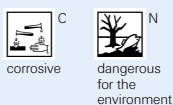
### Silver Nitrate

1 mol/l / 'BAKER ANALYZED'

7246

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**1 l** = 1.14 kg  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**UN/ID NO.** 1760  
**ADR/RID** 8 C9  
**IMDG** 8/II  
**R:** 34-51/53  
**S:** 26-36/37/39-45-57



Titer (mol/l) 0.995-1.005

PRODUCT NO.	PACKING	CONT. BOX
7246.1000	1 l	6

*Volumetric Solution, ready for use.*

### Silver Nitrate

0.1 mol/l / 'BAKER ANALYZED'

7096

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**1 l** = 1.01 kg  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**R:** 52/53  
**S:** 61

Titer (mol/l) 0.0997-0.1003

#### Trace Impurities (in ppm):

Chloride (Cl)	max. 1
Sulfate (SO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7096.1000	1 l	6
7096.5000	5 l Polycube	
7096.9010	10 l Polycube	
7096.9020	20 l Polycube	

*Volumetric Solution, ready for use.*

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Silver Nitrate

7245 0.05 mol/l / 'BAKER ANALYZED'

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**1 l** = 1.01 kg  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**R:** 52/53  
**S:** 61

Titer (mol/l) 0.0495-0.0505

PRODUCT NO.	PACKING	CONT. BOX
7245.1000	1 l	6

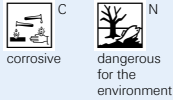
Volumetric Solution, ready for use.

## Silver Nitrate

4682 0.25 mol/l / DILUT-IT

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**UN/ID NO.** 1493  
**ADR/RID** 5.1 02  
**IMDG** 5.1/II  
**R:** 34-50/53  
**S:** 26-37/39-45-57



PRODUCT NO.	PACKING	CONT. BOX
4682	1 amp.	

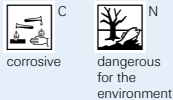
Volumetric Concentrate, for dilution to 1 l.

## Silver Nitrate

4681 0.1 mol/l / DILUT-IT

▶ AgNO<sub>3</sub>

**M** = 169.87 g/mol  
**CAS NO.** 7761-88-8  
**EINECS** 231-853-9  
**NC CODE** 2843 21 00  
**UN/ID NO.** 1493  
**ADR/RID** 5.1 02  
**IMDG** 5.1/II  
**R:** 34-50/53  
**S:** 26-37/39-45-57



PRODUCT NO.	PACKING	CONT. BOX
4681	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Silver Sulfate

1183 Low in Nitrate / 'BAKER ANALYZED' / ACS

▶ Ag<sub>2</sub>SO<sub>4</sub>

**M** = 311.80 g/mol  
**CAS NO.** 10294-26-5  
**EINECS** 233-653-7  
**NC CODE** 2843 29 00  
**R:** 41  
**S:** 22-26-39



### Exceeds ACS Specifications

Assay	min. 99.5%
Insoluble Matter and Silver Chloride	max. 0.02%
Iron (Fe)	max. 0.001%
Nitrate (NO <sub>3</sub> )	max. 0.001%
Substances not Precipitated by HCl	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
1183.0025	25 g Glass	6
1183.0100	100 g	

## Silver Sulfate

'BAKER ANALYZED'

1536

▶ Ag<sub>2</sub>SO<sub>4</sub>

M = 311.80 g/mol  
**CAS NO.** 10294-26-5  
**EINECS** 233-653-7  
**NC CODE** 2843 29 00

R: 41

S: 22-26-39



Assay	min. 99.5%
Insoluble Matter and Chloride	max. 0.02%
Iron (Fe)	max. 0.001%
Nitrate (NO <sub>3</sub> )	max. 0.01%
Substances not Precipitated by HCl	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
1536.0025	25 g Glass	6
1536.0100	100 g	
1536.0250	250 g	

## Silver Sulfate-Sulfuric acid

6.6 g/l / 'BAKER ANALYZED' / for the COD determination according AFNOR NF T 90-101

7641

1 l = 1.84 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1830  
**ADR/RID** 8 C1

IMDG 8/II

R: 35

S: 26-36/37/39-45



PRODUCT NO.	PACKING	CONT. BOX
7641.2500	2.5 l	

Volumetric Solution, ready for use.

## Silver Sulfate-Sulfuric acid

10g Ag<sub>2</sub>SO<sub>4</sub> + 35ml H<sub>2</sub>O + 965ml H<sub>2</sub>SO<sub>4</sub> 96% / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol. 41

7147

1 l = 1.84 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1830  
**ADR/RID** 8 C1

IMDG 8/II

R: 35

S: 26-30-36/37/39-45



PRODUCT NO.	PACKING	CONT. BOX
7147.1000	1 l	6
7147.2500	2.5 l	4

Volumetric Solution, ready for use.

## Silver Sulfate-Sulfuric acid

60g Ag<sub>2</sub>SO<sub>4</sub> in Sulfuric Acid 96% / 'BAKER ANALYZED' / For COD determination according DIN 38409 vol.41

7148

1 l = 1.84 kg  
**NC CODE** 3822 00 00  
**ADR/RID** 8 C1

IMDG 8/II

R: 35

S: 26-30-36/37/39-45



PRODUCT NO.	PACKING	CONT. BOX
7148.1000	1 l	
7148.2500	2.5 l	

Volumetric Solution, ready for use.

## Silver Sulfate-Sulfuric acid

80g Ag<sub>2</sub>SO<sub>4</sub> in Sulfuric Acid 96% / 'BAKER ANALYZED' / For COD determination according DIN 38409-H41.

7149

1 l = 1.84 kg  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1830  
**ADR/RID** 8 C1

IMDG 8/II

R: 35

S: 26-30-36/37/39-45



PRODUCT NO.	PACKING	CONT. BOX
7149.1000	1 l	
7149.2500	2.5 l	

Volumetric Solution, ready for use.

## Soda Lime

1783 'BAKER'

**11** = 0.94 kg  
**CAS NO.** 8006-28-8  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1907  
**ADR/RID** 8 C6  
**IMDG** 8/III  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

Identification passes test  
 Loss on Drying at 105°C 12-19%

PRODUCT NO.	PACKING	CONT. BOX
1783.1000	1 kg	6
1783.9050	50 kg	

## Sodium 1000 µg/ml

5780 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Na  
**M** = 22.99 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



irritant

**Certificate Provided Reporting Actual Lot Analysis**  
 Sodium (Na) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5780.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Sodium 1000 µg/ml

6941 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Na  
**M** = 22.99 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



irritant

Sodium (Na) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6941.0100	100 ml	
6941.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Sodium 1000 µg/ml

6822 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Na  
**M** = 22.99 g/mol  
**NC CODE** 3822 00 00

Sodium (Na) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6822.0100	100 ml	
6822.0500	500 ml	

Sodium nitrate in water.

## Sodium 10000 µg/ml

5746 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Na  
**M** = 22.99 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



irritant

**Certificate Provided Reporting Actual Lot Analysis**  
 Sodium (Na) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5746.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.



## Sodium Acetate Anhydrous

'BAKER ANALYZED' / ACS

0258

▶ CH <sub>3</sub> COONa M = 82.03 g/mol CAS NO. 127-09-3 EINECS 204-823-8 NC CODE 2915 22 00	<b>Meets ACS Specifications</b>		PRODUCT	PACKING	CONT.
			NO.		BOX
	Assay	min. 99.0%	0258.0250	250 g	6
	Calcium (Ca)	max. 0.005%	0258.1000	1 kg	6
	Chloride (Cl)	max. 0.002%			
	Heavy Metals (as Pb)	max. 0.001%			
	Insoluble Matter	max. 0.01%			
	Iron (Fe)	max. 0.001%			
	Loss on Drying at 120°C	max. 1.0%			
	Magnesium (Mg)	max. 0.002%			
	pH of 5% Solution at 25°C	7.0-9.2			
	Phosphate (PO <sub>4</sub> )	max. 0.001%			
	Sulfate (SO <sub>4</sub> )	max. 0.003%			

## Sodium Acetate Anhydrous

'BAKER'

0259

▶ CH <sub>3</sub> COONa M = 82.03 g/mol CAS NO. 127-09-3 EINECS 204-823-8 NC CODE 2915 22 00	Assay (by Perchloric Acid titm.)		PRODUCT	PACKING	CONT.
			NO.		BOX
	Chloride (Cl)	min. 99%	0259.1000	1 kg	
	Heavy Metals (as Pb)	max. 0.2%	0259.9025	25 kg	
	Insoluble Matter	max. 0.001%			
	Iron (Fe)	max. 0.01%			
	Loss on Drying at 120°C	max. 0.002%			
	pH of 5% Solution at 25°C	max. 1%			
		7.0-9.2			

## Sodium Acetate, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Acetate Trihydrate

crystal / 'BAKER ULTRAPURE BIOREAGENT'

4009

▶ CH <sub>3</sub> COONa·3H <sub>2</sub> O M = 136.08 g/mol CAS NO. 6131-90-4 EINECS 204-823-8 NC CODE 2915 22 00	<b>For Liquid Chromatography and Molecular Biology applications</b>		PRODUCT	PACKING	CONT.
			NO.		BOX
	Assay	99.0-101.0%	4009.1000	1 kg	
	Calcium, Magnesium and R <sub>2</sub> O <sub>3</sub> Precipitate	max. 0.01%	4009.5000	5 kg	
	Chloride (Cl)	max. 0.001%			
	DNAase Activity	none detected			
	Insoluble Matter	max. 0.005%			
	pH of 5% Solution at 25°C	7.5-9.2			
	Potassium (K)	max. 0.005%			
	Protease Activity	none detected			
	RNAase Activity	none detected			
	Substances Reducing KMnO <sub>4</sub>	passes test			
	Sulfate (SO <sub>4</sub> )	max. 0.002%			
	<b>Absorbance of a 1 M Solution (1-cm path vs water):</b>				
	at 254 nm	max. 0.02			
	at 280 nm	max. 0.01			
	at 350 nm	max. 0.01			
	<b>Trace Impurities (in ppm):</b>				
	Heavy Metals (as Pb)	max. 5			
	Iron (Fe)	max. 5			
	Phosphate (PO <sub>4</sub> )	max. 5			

Questions or suggestions, please contact us  
at [jtbaker.nl@emea.tycohealthcare.com](mailto:jtbaker.nl@emea.tycohealthcare.com)

## Sodium Acetate Trihydrate

0393 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

PRODUCT NO.	PACKING	CONT. BOX
0393.1000	1 kg	

▶ CH <sub>3</sub> COONa·3H <sub>2</sub> O	Assay (by non-aqueous titrn.)	99.0-101.0%
<b>M</b> = 136.08 g/mol	Calcium (Ca)	max. 0.005%
<b>CAS NO.</b> 6131-90-4	Chloride (Cl)	max. 0.001%
<b>EINECS</b> 204-823-8	Insoluble Matter	max. 0.005%
<b>NC CODE</b> 2915 22 00	Magnesium (Mg)	max. 0.002%
	pH of 5% Solution at 25°C	7.5-9.2
	Potassium (K) (by FES)	max. 0.005%
	Substances Reducing KMnO <sub>4</sub>	passes test
	Sulfate (SO <sub>4</sub> )	max. 0.002%
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5
	Phosphate (PO <sub>4</sub> )	max. 5
	<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
	at 254 nm	max. 0.02
	at 280 nm	max. 0.01
	at 350 nm	max. 0.01

## Sodium Acetate Trihydrate

0256 'BAKER ANALYZED' / ACS

PRODUCT NO.	PACKING	CONT. BOX
0256.0500	500 g	6
0256.1000	1 kg	6
0256.5000	5 kg	4

▶ CH <sub>3</sub> COONa·3H <sub>2</sub> O	<b>Meets ACS Specifications</b>	
<b>M</b> = 136.08 g/mol	Assay	99.0-101.0%
<b>CAS NO.</b> 6131-90-4	Calcium (Ca)	max. 0.005%
<b>EINECS</b> 204-823-8	Chloride (Cl)	max. 0.001%
<b>NC CODE</b> 2915 22 00	Insoluble Matter	max. 0.005%
	Magnesium (Mg)	max. 0.002%
	pH of 5% Solution at 25°C	7.5-9.2
	Potassium (K)	max. 0.005%
	Substances Reducing KMnO <sub>4</sub>	passes test
	Sulfate (SO <sub>4</sub> )	max. 0.002%
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5
	Phosphate (PO <sub>4</sub> )	max. 5

## Sodium Acetate Trihydrate

0517 'BAKER'

PRODUCT NO.	PACKING	CONT. BOX
0517.1000	1 kg	
0517.9025	25 kg	
0517.9050	50 kg	

▶ CH <sub>3</sub> COONa·3H <sub>2</sub> O	Assay (by Perchloric Acid titrn.)	min. 98%
<b>M</b> = 136.08 g/mol		
<b>CAS NO.</b> 6131-90-4		
<b>EINECS</b> 204-823-8		
<b>NC CODE</b> 2915 22 00		

## Sodium Acetate, Trihydrate


See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Arsenite

7253 0.05 mol/l / 'BAKER ANALYZED'

PRODUCT NO.	PACKING	CONT. BOX
7253.1000	1 l	

▶ NaAsO <sub>2</sub>	Titer (mol/l)	0.0495-0.0505
<b>M</b> = 129.91 g/mol		
<b>1 l</b> = 1.01 kg		
<b>NC CODE</b> 2842 90 90		
<b>UN/ID NO.</b> 1686		
<b>ADR/RID</b> 6.1 T4		
<b>IMDG</b> 6.1/II		
<b>R:</b> 45-52/53		
<b>S:</b> 20-36/39-53		
		
toxic		

## Sodium Azide

'BAKER'

9099

▶ NaN<sub>3</sub>

**M** = 65.01 g/mol  
**CAS NO.** 26628-22-8  
**EINECS** 247-852-1  
**NC CODE** 2850 00 50  
**EC NO.** 11 004 00 7  
**UN/ID NO.** 1687  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 28-32-50/53  
**S:** 28-45-60-61



Assay	min. 99%
Alkalinity	max. 0.1%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.05%
Loss on Drying	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
9099.0100	100 g	6
9099.1000	1 kg	

## Sodium Benzoate

'BAKER'

2021

▶ C<sub>6</sub>H<sub>5</sub>COONa

**M** = 144.11 g/mol  
**CAS NO.** 532-32-1  
**EINECS** 208-534-8  
**NC CODE** 2916 31 00

Assay	99.0-100.5%
Alkalinity	passes test
Heavy Metals (as Pb)	max. 0.001%
Identification	passes test
Organic Volatile Impurities	passes test
Water (H <sub>2</sub> O)	max. 1.5%

PRODUCT NO.	PACKING	CONT. BOX
2021.1000	1 kg	
2021.9025	25 kg	
2021.9050	50 kg	

## Sodium Benzoate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Bicarbonate

See Sodium Hydrogen Carbonate

## Sodium Bicarbonate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Bisulfite

See Sodium Hydrogen Sulfite

## Sodium Bisulfite

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Borate

See Disodium Tetraborate Decahydrate

## Sodium Borate, 10-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Borohydride

'BAKER ANALYZED' / for cold vapour analysis

9161

▶ NaBH<sub>4</sub>

**M** = 37.83 g/mol  
**CAS NO.** 16940-66-2  
**EINECS** 241-004-4  
**NC CODE** 2850 00 20  
**UN/ID NO.** 1426  
**ADR/RID** 4.3 W2  
**IMDG** 4.3/I  
**R:** 15-25-34  
**S:** 26-36-43a-7/8



Assay	min. 97%
Chloride (Cl)	max. 0.5%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Sulfate (SO <sub>4</sub> )	max. 0.005%
<b>Trace Impurities (in ppm):</b>	
Antimony (Sb)	max. 0.2
Arsenic (As)	max. 0.2
Bismuth (Bi)	max. 0.2
Mercury (Hg)	max. 0.001
Selenium (Se)	max. 0.2

PRODUCT NO.	PACKING	CONT. BOX
9161.0100	100 g	6

# Sodiu

## Sodium Borohydride

9098 'BAKER'

▶ NaBH <sub>4</sub>	Assay	min. 97%
<b>M</b> = 37.83 g/mol		
<b>CAS NO.</b> 16940-66-2		
<b>EINECS</b> 241-004-4		
<b>NC CODE</b> 2850 00 20		
<b>UN/ID NO.</b> 1426		
<b>ADR/RID</b> 4.3 W2		
<b>IMDG</b> 4.3/I		
<b>R:</b> 15-25-34		
<b>S:</b> 26-36-43a-7/8		



PRODUCT NO.	PACKING	CONT. BOX
9098.0025	25 g Glass	
9098.0100	100 g	6

## Sodium Bromide

0271 'BAKER ANALYZED'

▶ NaBr	Assay	min. 99.0%
<b>M</b> = 102.89 g/mol	Alkalinity (as Na <sub>2</sub> CO <sub>3</sub> )	max. 0.015%
<b>CAS NO.</b> 7647-15-6	Barium (Ba)	max. 0.002%
<b>EINECS</b> 231-599-9	Bromate (BrO <sub>3</sub> )	max. 0.001%
<b>NC CODE</b> 2827 51 00	Calcium and Magnesium (as Ca)	max. 0.005%
	Chloride (Cl)	max. 0.2%
	Insoluble Matter	max. 0.005%
	pH of 5% Solution at 25°C	5.5-7.5
	Sulfate (SO <sub>4</sub> )	max. 0.002%
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Iron (Fe)	max. 5
	Nitrogen Compounds (as N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0271.0250	250 g	
0271.1000	1 kg	
0271.9050	50 kg	

## Sodium Bromide

2022 'BAKER'

▶ NaBr	Assay (dried basis)	98.0-100.5%
<b>M</b> = 102.89 g/mol	Acidity or Alkalinity	passes test
<b>CAS NO.</b> 7647-15-6	Appearance of solution	passes test
<b>EINECS</b> 231-599-9	Bromates (as BrO <sub>3</sub> )	passes test
<b>NC CODE</b> 2827 51 00	Chlorides (as Cl)	max. 0.6%
	Identification	passes test
	Iodides (as I)	passes test
	Loss on Drying at 105°C	max. 3.0%
	Magnesium and Alkaline-earth Metals (as Ca)	max. 200 ppm
	Sulfates (as SO <sub>4</sub> )	max. 100 ppm
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 10 ppm
	Iron (Fe)	max. 20 ppm

PRODUCT NO.	PACKING	CONT. BOX
2022.1000	1 kg	

Stored in an airtight container.

## Sodium Carbonate

7138 0.5 mol/l / 'BAKER ANALYZED'

<b>EINECS</b> 207-838-8	Titer (mol/l)	0.4975-0.5025
<b>NC CODE</b> 2836 20 00		

PRODUCT NO.	PACKING	CONT. BOX
7138.1000	1 l	
7138.9010	10 l Polycube	

*Volumetric Solution, ready for use.*

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Carbonate

0.05 mol/l / 'BAKER ANALYZED'

7139

EINECS 207-838-8  
NC CODE 2836 20 00

Titer (mol/l) 0.0495 - 0.0505

PRODUCT NO.	PACKING	CONT. BOX
7139.1000	1 l	
7139.9010	10 l Polycube	

Volumetric Solution, ready for use.  
Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Carbonate Anhydrous

ULTREX Ultrapure Reagent

4923

▶ Na<sub>2</sub>CO<sub>3</sub>

M = 105.99 g/mol  
CAS NO. 497-19-8  
EINECS 207-838-8  
NC CODE 2836 20 00  
EC NO. 11 005 00 2  
R: 36  
S: 22-26



### Certificate Provided Reporting Actual Lot Analysis

#### Actual Analysis Lot. No. V04622

Assay (dried basis)	99.6%
Ammonium Hydroxide Precipitate	0.001%
Arsenic (As)	< 0.1
Iron (Fe)	< 1
Loss on Drying at 285°C	0.005%
Particulate Matter	0.0002%

#### Metallic Impurities (in ppm):

Aluminium (Al)	< 1
Barium (Ba)	< 10
Bismuth (Bi)	< 10
Cadmium (Cd)	< 5
Calcium (Ca)	26
Chromium (Cr)	< 1
Cobalt (Co)	< 1
Copper (Cu)	< 1
Lead (Pb)	< 10
Lithium (Li)	< 100
Magnesium (Mg)	< 1
Manganese (Mn)	< 1
Mercury (Hg)	< 0.001
Molybdenum (Mo)	1
Nickel (Ni)	< 5
Niobium (Nb)	< 5
Potassium (K)	< 100
Silver (Ag)	< 1
Strontium (Sr)	< 1
Tin (Sn)	< 10
Titanium (Ti)	< 1
Vanadium (V)	< 1
Zinc (Zn)	< 10
Zirconium (Zr)	< 1

#### Non Metallic Impurities (in ppm):

Halide (as Cl)	1
Nitrogen Compounds (as N)	1
Phosphate (PO <sub>4</sub> )	0.5
Silicon (Si)	< 1
Sulfur Compounds (as SO <sub>4</sub> )	4

PRODUCT NO.	PACKING	CONT. BOX
4923.0025	25 g Glass	
4923.0100	100 g Glass	

*J.T. Baker: over 100 years of experience.*

*See chapter 1 of this catalogue.*

1400

## Sodium Carbonate Anhydrous

'BAKER ANALYZED' / Primary Standard / ACS

▶ Na<sub>2</sub>CO<sub>3</sub>

**M** = 105.99 g/mol  
**CAS NO.** 497-19-8  
**EINECS** 207-838-8  
**NC CODE** 2836 20 00  
**EC NO.** 11 005 00 2  
**R:** 36  
**S:** 22-26



irritant

### Meets ACS Specifications

Assay (after 2 hr at 285°C)	99.95-100.05%
Calcium (Ca)	max. 0.02%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.0005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.0005%
Loss on Heating at 285°C	max. 1.0%
Magnesium (Mg)	max. 0.004%
Phosphate (as PO <sub>4</sub> )	max. 0.001%
Potassium (K)	max. 0.005%
Silica (SiO <sub>2</sub> )	max. 0.005%
Solubility (8 in 50)	passes test
Sulfur Compounds (as SO <sub>4</sub> )	max. 0.003%

### Product Information (not specifications):

Appearance white granules

PRODUCT NO.	PACKING	CONT. BOX
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1400.0250 250 g

0274

## Sodium Carbonate Anhydrous

'BAKER ANALYZED' / ACS

▶ Na<sub>2</sub>CO<sub>3</sub>

**M** = 105.99 g/mol  
**CAS NO.** 497-19-8  
**EINECS** 207-838-8  
**NC CODE** 2836 20 00  
**EC NO.** 11 005 00 2  
**R:** 36  
**S:** 22-26



irritant

### Meets ACS Specifications. Meets Reagent

#### Specifications for testing USP/NF monographs

Assay (dried basis) (by acidimetry)	min. 99.5%
Calcium (Ca)	max. 0.03%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Loss on Heating at 285°C	max. 1.0%
Magnesium (Mg)	max. 0.005%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Potassium (K)	max. 0.005%
Silica (SiO <sub>2</sub> )	max. 0.005%
Sulfur Compounds (as SO <sub>4</sub> )	max. 0.003%

#### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

0274.0500 500 g 6  
 0274.1000 1 kg 6  
 0274.5000 5 kg 4

2024

## Sodium Carbonate Anhydrous

'BAKER'

▶ Na<sub>2</sub>CO<sub>3</sub>

**M** = 105.99 g/mol  
**CAS NO.** 497-19-8  
**EINECS** 207-838-8  
**NC CODE** 2836 20 00  
**EC NO.** 11 005 00 2  
**R:** 36  
**S:** 22-26



irritant

Assay	99.5-100.5%
Alkali Hydroxides and Bicarbonates	passes test
Appearance of solution	passes test
Arsenic (As)	max. 5 ppm
Chloride (Cl)	max. 125 ppm
Heavy Metals (as Pb)	max. 50 ppm
Identification	passes test
Iron (Fe)	max. 50 ppm
Loss on Drying	max. 1.0%
Sulfate (SO <sub>4</sub> )	max. 250 ppm

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

2024.1000 1 kg 6  
 2024.5000 5 kg 4

Stored in an airtight container.

1994

## Sodium Carbonate Anhydrous

'BAKER'

▶ Na<sub>2</sub>CO<sub>3</sub>

**M** = 105.99 g/mol  
**CAS NO.** 497-19-8  
**EINECS** 207-838-8  
**NC CODE** 2836 20 00  
**EC NO.** 11 005 00 2  
**R:** 36  
**S:** 22-26



irritant

Assay	min. 99.5%
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PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

1994.9050 50 kg

## Sodium Carbonate, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Carbonate, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Chloride

ULTREX Ultrapure Reagent

4924

▶ NaCl

**M** = 58.44 g/mol

**CAS NO.** 7647-14-5

**EINECS** 231-598-3

**NC CODE** 2501 00 99

### Certificate Provided Reporting Actual Lot Analysis

#### Actual Lot Analysis Lot No. B21582

Assay (dried basis)	100.4%
Loss on drying at 650°C	0.003%
Particulate Matter	0.003%

#### Metallic Impurities in parts per million (µg/g):

Aluminium (Al)	0.7
Barium (Ba)	< 0.2
Bismuth (Bi)	< 2.2
Cadmium (Cd)	< 0.1
Calcium (Ca)	1.2
Chromium (Cr)	< 0.2
Cobalt (Co)	< 0.2
Copper (Cu)	0.5
Iron (Fe)	0.2
Lead (Pb)	< 0.2
Lithium (Li)	< 0.2
Magnesium (Mg)	0.8
Manganese (Mn)	< 0.1
Mercury (Hg)	0.4
Molybdenum (Mo)	< 0.1
Nickel (Ni)	< 0.2
Potassium (K)	2.2
Silver (Ag)	< 0.3
Strontium (Sr)	0.2
Tin (Sn)	< 0.2
Titanium (Ti)	0.2
Vanadium (V)	< 0.1
Zinc (Zn)	< 0.2
Zirconium (Zr)	< 0.2

#### Non-Metallic Impurities in parts per million (µg/g):

Arsenic (As)	< 0.8
Bromide (Br)	0.0008
Iodide (I)	< 0.005
Nitrogen Compounds (as N)	0.8
Phosphate (PO <sub>4</sub> )	< 0.2
Sulfur Compounds (as SO <sub>4</sub> )	1

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

4924.0100 100 g Glass

For Laboratory, Research or Manufacturing Use.

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Sodium Chloride

4058 crystal / 'BAKER ULTRAPURE BIOAGENT'

▶ NaCl

**M** = 58.44 g/mol  
**CAS NO.** 7647-14-5  
**EINECS** 231-598-3  
**NC CODE** 2501 00 99

### For Liquid Chromatography and Molecular Biology

#### applications

Assay	min. 99.0%
DNAase Activity	none detected
pH of 5% Solution at 25°C	5.5-7.5
Protease Activity	none detected
RNAase Activity	none detected

#### Maximum Limits of Impurities:

Barium (Ba)	0.001%
Bromide (Br)	0.01%
Calcium, Magnesium and R <sub>2</sub> O <sub>3</sub> Precipitate	0.005%
Chlorate and Nitrate (as NO <sub>3</sub> )	0.003%
Insoluble Matter	0.005%
Iodide (I)	0.002%
Potassium (K)	0.005%
Sulfate (SO <sub>4</sub> )	0.003%

#### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 2
Iron (Fe)	max. 1
Nitrogen Compounds (as N)	max. 5
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
4058.0500	500 g	
4058.2500	2.5 kg	
4058.9012	12 kg	

## Sodium Chloride

0277 crystal / 'BAKER ANALYZED' / ACS

▶ NaCl

**M** = 58.44 g/mol  
**CAS NO.** 7647-14-5  
**EINECS** 231-598-3  
**NC CODE** 2501 00 99

### Meets ACS Specifications

Assay	min. 99.0%
Barium (Ba)	max. 0.002%
Bromide (Br)	max. 0.01%
Calcium (Ca)	max. 0.002%
Chlorate and Nitrate (as NO <sub>3</sub> )	max. 0.003%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.002%
Magnesium (Mg)	max. 0.001%
pH of 5% Solution at 25°C	5.0-9.0
Potassium (K)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.004%

#### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 2
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0277.0500	500 g	
0277.1000	1 kg	6
0277.5000	5 kg	4
0277.9010	10 kg	
0277.9050	50 kg	

## Sodium Chloride

0278 crystal / 'BAKER ANALYZED'

▶ NaCl

**M** = 58.44 g/mol  
**CAS NO.** 7647-14-5  
**EINECS** 231-598-3  
**NC CODE** 2501 00 99

Assay	min. 99.5%
Barium (Ba)	max. 0.002%
Bromide (Br)	max. 0.01%
Calcium (Ca)	max. 0.002%
Insoluble Matter	max. 0.005%
Iodide (I)	max. 0.005%
Magnesium (Mg)	max. 0.001%
pH of 5% Solution at 25°C	5.0-8.0
Potassium (K)	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.01%

#### Trace Impurities (in ppm):

Arsenic (As)	max. 3
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 3
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0278.0500	500 g	6
0278.1000	1 kg	6
0278.5000	5 kg	4
0278.9050	50 kg	

## Sodium Chloride

▶ See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



## Sodium Chloride

0.1 mol/l / 'BAKER ANALYZED'

7140

EINECS 231-598-3  
NC CODE 2501 00 91

Titer (mol/l) 0.099-0.101

PRODUCT NO.	PACKING	CONT. BOX
7140.1000	1 l	
7140.9010	10 l Polycube	

Volumetric Solution, ready for use.  
Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Chloride

0.1 mol/l / DILUT-IT

4684

▶ NaCl

M = 58.44 g/mol  
CAS NO. 7647-14-5  
EINECS 231-598-3  
NC CODE 2501 00 91

PRODUCT NO.	PACKING	CONT. BOX
4684	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Citrate Dihydrate

crystal / 'BAKER ANALYZED'

0280

▶  $\text{HOC}(\text{COONa})(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O}$ 

M = 294.10 g/mol  
CAS NO. 6132-04-3  
EINECS 200-675-3  
NC CODE 2918 15 00

Assay	min. 99.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	7.0-9.0
Sulfate ( $\text{SO}_4$ )	max. 0.002%

## Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0280.0500	500 g	6
0280.1000	1 kg	6
0280.5000	5 kg	4

## Sodium Citrate Dihydrate

crystal / 'BAKER'

1758

▶  $\text{HOC}(\text{COONa})(\text{CH}_2\text{COONa})_2 \cdot 2\text{H}_2\text{O}$ 

M = 294.10 g/mol  
CAS NO. 6132-04-3  
EINECS 200-675-3  
NC CODE 2918 15 00

Assay	99.0-100.5%
Acid or alkaline reacting substances	passes test
Appearance of solution	passes test
Chloride (Cl)	max. 0.003%
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Oxalate ( $\text{C}_2\text{O}_4$ )	max. 300 ppm
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Sulfate ( $\text{SO}_4$ )	max. 0.005%
Tartrate	passes test
Water ( $\text{H}_2\text{O}$ )	11.0-13.0%

PRODUCT NO.	PACKING	CONT. BOX
1758.1000	1 kg	6
1758.9050	50 kg	

## Sodium Citrate Dihydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Cyanide

'BAKER ANALYZED' / ACS

0281

▶ NaCN

M = 49.01 g/mol  
CAS NO. 143-33-9  
EINECS 205-599-4  
NC CODE 2837 11 00  
EC NO. 6 007 00 5  
UN/ID NO. 1889  
ADR/RID 6.1 T5  
IMDG 6.1/I

R: 26/27/28-32-50/53  
S: 28-29-45-60-61-7



dangerous  
for the  
environment



very toxic

## Meets ACS Specifications

Assay (argentometric titrn.)	min. 95.0%
Chloride (Cl)	max. 0.15%
Iron, total (as Fe)	max. 0.005%
Phosphate ( $\text{PO}_4$ )	max. 0.02%
Sulfate ( $\text{SO}_4$ )	max. 0.05%
Sulfide (S)	max. 0.005%
Thiocyanate (SCN)	max. 0.02%

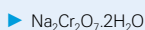
## Trace Impurities (in ppm):

Lead (Pb)	max. 5
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PRODUCT NO.	PACKING	CONT. BOX
0281.0100	100 g	
0281.9050	50 kg	

## Sodium Dichromate Dihydrate

0282 'BAKER ANALYZED' / ACS



**M** = 298.00 g/mol

**CAS NO.** 7789-12-0

**EINECS** 234-190-3

**NC CODE** 2841 30 00

**EC NO.** 24 004 00 7

**UN/ID NO.** 3288

**ADR/RID** 6.1 T5

**IMDG** 6.1/III

**R:** 21-25-26-34-42/43-45-46-48/23-50/53-60-61-8

**S:** 45-53-60-61



dangerous for the environment



oxidizing



very toxic

### Meets ACS Specifications. Meets Reagent

#### Specifications for testing USP/NF monographs

Assay	99.5-100.5%
Aluminium (Al)	max. 0.002%
Calcium (Ca)	max. 0.002%
Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	3.4-4.8
Potassium (K)	max. 0.01%
Sulfate ( $\text{SO}_4$ )	max. 0.01%

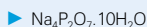
PRODUCT NO.	PACKING	CONT. BOX
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0282.0500 500 g

0282.9050 50 kg

## Sodium Diphosphate Decahydrate

0309 'BAKER ANALYZED' / ACS



**M** = 446.06 g/mol

**CAS NO.** 13472-36-1

**EINECS** 231-767-1

**NC CODE** 2835 39 00

### Meets ACS Specifications

Assay	99.0-103.0%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Nitrogen Compounds (as N)	max. 0.001%
pH of 5% Solution at 25°C	9.5-10.5
Sulfate ( $\text{SO}_4$ )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

0309.1000 1 kg

0309.9050 50 kg

## Sodium Diphosphate Decahydrate

1766 'BAKER'



**M** = 446.06 g/mol

**CAS NO.** 13472-36-1

**EINECS** 231-767-1

**NC CODE** 2835 39 00

Assay	min. 99%
Heavy Metals (as Pb)	max. 0.001%

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

1766.1000 1 kg

## Sodium Dihydrogen Phosphate Dihydrate

1768 'BAKER'



**M** = 156.01 g/mol

**CAS NO.** 13472-35-0

**EINECS** 231-449-2

**NC CODE** 2835 22 00

Assay min. 98%

### Trace Impurities (in ppm):

Arsenic (As) max. 2

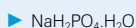
PRODUCT NO.	PACKING	CONT. BOX
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1768.1000 1 kg

1768.9050 50 kg

## Sodium Dihydrogen Phosphate Monohydrate

4011 crystal / 'BAKER ULTRAPURE BIOREAGENT'



**M** = 137.99 g/mol

**CAS NO.** 10049-21-5

**EINECS** 231-449-2

**NC CODE** 2835 22 00

### For Liquid Chromatography and Molecular Biology applications

Assay	99.0-102.0%
DNase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter, Calcium and $\text{NH}_4\text{OH}$	max. 0.01%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	4.1-4.5
Protease Activity	none detected
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
-------------	---------	-----------

4011.0500 500 g

4011.2500 2.5 kg

## Sodium Dihydrogen Phosphate Monohydrate

'BAKER ANALYZED' / ACS

0303

▶  $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$ 

**M** = 137.99 g/mol  
**CAS NO.** 10049-21-5  
**EINECS** 231-449-2  
**NC CODE** 2835 22 00

**Meets ACS Specifications**

Assay	98.0-102.0%
Calcium (Ca)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
pH of 5% Solution at 25°C	4.1-4.5
Potassium (K)	max. 0.01%
Sulfate ( $\text{SO}_4$ )	max. 0.003%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
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PRODUCT NO.	PACKING	CONT. BOX
0303.0500	500 g	6
0303.1000	1 kg	6
0303.9025	25 kg	

## Sodium Dihydrogen Phosphate, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Disulfite

'BAKER ANALYZED' / ACS

0267

▶  $\text{Na}_2\text{S}_2\text{O}_5$ 

**M** = 190.10 g/mol  
**CAS NO.** 7681-57-4  
**EINECS** 231-673-0  
**NC CODE** 2832 10 00  
**EC NO.** 16 063 00 2  
**R:** 22-31-41  
**S:** 26-39-46



harmful

**Exceeds ACS Specifications**

Assay	min. 97.0%
Assay ( $\text{SO}_2$ )	min. 58.5%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Thiosulfate ( $\text{S}_2\text{O}_3$ )	max. 0.05%

**Trace Impurities (in ppm):**

Iron (Fe)	max. 5
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PRODUCT NO.	PACKING	CONT. BOX
0267.0500	500 g	6
0267.1000	1 kg	6
0267.9050	50 kg	

Contains Sodium Disulfite and Sodium meta-Bisulfite.

## Sodium Disulfite

'BAKER'

1767

▶  $\text{Na}_2\text{S}_2\text{O}_5$ 

**M** = 190.10 g/mol  
**CAS NO.** 7681-57-4  
**EINECS** 231-673-0  
**NC CODE** 2832 10 00  
**EC NO.** 16 063 00 2  
**R:** 22-31-41  
**S:** 26-39-46



harmful

Assay	min. 97%
-------	----------

PRODUCT NO.	PACKING	CONT. BOX
1767.1000	1 kg	

## Sodium Dithionite

'BAKER'

2071

▶  $\text{Na}_2\text{S}_2\text{O}_4$ 

**M** = 174.14 g/mol  
**CAS NO.** 7775-14-6  
**EINECS** 231-890-0  
**NC CODE** 2831 10 00  
**EC NO.** 16 028 00 1  
**UN/ID NO.** 1384  
**ADR/RID** 4.2 S4  
**IMDG** 4.2/II  
**R:** 22-31-7  
**S:** 26-28-43a-7/8



harmful

Assay	min. 85%
Chloride (Cl)	max. 0.8%
Iron (Fe)	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
2071.1000	1 kg	

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Sodium Dodecyl Sulfate

4095 'BAKER ULTRAPURE BIOREAGENT' / For Electrophoresis and Protein Solubilization

▶ $\text{CH}_3(\text{CH}_2)_{11}\text{OSO}_3\text{Na}$	Assay (as $\text{C}_{12}\text{H}_{25}\text{OSO}_3\text{Na}$ )	min. 99%
<b>M</b> = 288.38 g/mol	Appearance	passes test
<b>CAS NO.</b> 151-21-3	Chloride (Cl)	max. 0.03%
<b>EINECS</b> 205-788-1	DNase Activity	none detected
<b>NC CODE</b> 3402 19 00	pH of 1% Solution at 25°C	5.0-8.0
<b>UN/ID NO.</b> 1325	Protease Activity	none detected
<b>ADR/RID</b> 4.1 F1	RNase Activity	none detected
<b>IMDG</b> 4.1/III	<b>Absorbance of a 3% (w/v) Aqueous Solution (1-cm path vs water):</b>	
<b>R:</b> 11-20/21-36/37/38	at 280 nm	max. 0.1
<b>S:</b> 26-36/37	<b>Trace Impurities (in ppm):</b>	
Xn harmful	Heavy Metals (as Pb)	max. 2
F highly flammable	Iron (Fe)	max. 1
	Nitrogen (N)	max. 5
	Phosphate ( $\text{PO}_4$ )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
4095.0025	25 g Glass	
4095.0100	100 g	
4095.1000	1 kg	
4095.2000	2 kg	
4095.9012	12 kg	

## Sodium Dodecyl Sulfate

2811 'BAKER'

▶ $\text{CH}_3(\text{CH}_2)_{11}\text{OSO}_3\text{Na}$	Assay	min. 95%
<b>M</b> = 288.38 g/mol		
<b>CAS NO.</b> 151-21-3		
<b>EINECS</b> 205-788-1		
<b>NC CODE</b> 3402 19 00		
<b>UN/ID NO.</b> 1325		
<b>ADR/RID</b> 4.1 F1		
<b>IMDG</b> 4.1/III		
<b>R:</b> 11-20/21-36/37/38		
<b>S:</b> 26-36/37		
Xn harmful		
F highly flammable		

PRODUCT NO.	PACKING	CONT. BOX
2811.1000	1 kg	6

## Sodium Ethylenediaminetetraacetate

See EDTA, Disodium Salt

## Sodium Fluoride

0285 'BAKER ANALYZED' / ACS

▶ NaF	<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>	
<b>M</b> = 41.99 g/mol	Assay	min. 99.0%
<b>CAS NO.</b> 7681-49-4	Chloride (Cl)	max. 0.005%
<b>EINECS</b> 231-667-8	Heavy Metals (as Pb)	max. 0.002%
<b>NC CODE</b> 2826 11 00	Insoluble Matter	max. 0.02%
<b>EC NO.</b> 9 004 00 7	Iron (Fe)	max. 0.003%
<b>UN/ID NO.</b> 1690	Loss on Drying at 150°C	max. 0.2%
<b>ADR/RID</b> 6.1 T5	Potassium (K)	max. 0.02%
<b>IMDG</b> 6.1/III	Sodium Fluosilicate ( $\text{Na}_2\text{SiF}_6$ )	max. 0.1%
<b>R:</b> 25-32-36/38	Sulfate ( $\text{SO}_4$ )	max. 0.02%
<b>S:</b> 22-36-45	Sulfite ( $\text{SO}_3$ )	max. 0.005%
T toxic	Titration Acid (meq/g)	max. 0.03
	Titration Base (meq/g)	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
0285.0500	500 g	

*Innovation is principal to our business.*

## Sodium Fluoride

'BAKER'

2016

▶ NaF		Assay	98.5-100.5%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	41.99 g/mol	Acidity or Alkalinity	passes test	2016.1000	1 kg	
<b>CAS NO.</b>	7681-49-4	Appearance of solution	passes test			
<b>EINECS</b>	231-667-8	Chlorides (as Cl)	max. 200 ppm			
<b>NC CODE</b>	2826 11 00	Fluosilicate	passes test			
<b>EC NO.</b>	9 004 00 7	Identification	passes test			
<b>UN/ID NO.</b>	1690	Loss on Drying	max. 0.5%			
<b>ADR/RID</b>	6.1 T5	Sulfates (as SO <sub>4</sub> )	max. 200 ppm			
<b>IMDG</b>	6.1/III					
<b>R:</b>	25-32-36/38					
<b>S:</b>	22-36-45					
	toxic					

## Sodium Fluoride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Formate

'BAKER ANALYZED' / ACS

0287

▶ HCOONa		<i>Exceeds ACS Specifications</i>		PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	68.01 g/mol	Assay	min. 99.0%	0287.0500	500 g	
<b>CAS NO.</b>	141-53-7	Calcium (Ca)	max. 0.001%	0287.9025	25 kg	
<b>EINECS</b>	205-488-0	Chloride (Cl)	max. 0.001%	0287.9050	50 kg	
<b>NC CODE</b>	2915 12 00	Insoluble Matter	max. 0.005%			
<b>R:</b>	36	pH of 5% Solution at 25°C	6.5-8.5			
<b>S:</b>	26	Sulfate (SO <sub>4</sub> )	max. 0.001%			
		<b>Trace Impurities (in ppm):</b>				
	irritant	Heavy Metals (as Pb)	max. 5			
		Iron (Fe)	max. 5			

## Sodium Hexametaphosphate

'BAKER'

0908

▶ (NaPO <sub>3</sub> ) <sub>6</sub>		P <sub>2</sub> O <sub>5</sub> Content	68.0-71.0%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	611.77 g/mol			0908.3000	3 kg	
<b>CAS NO.</b>	10124-56-8					
<b>EINECS</b>	233-343-1					
<b>NC CODE</b>	2835 39 00					

## Sodium Hydrogen Carbonate

Powder / 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

0394

▶ NaHCO <sub>3</sub>		Assay	99.7-100.3%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	84.01 g/mol	Calcium, Magnesium and R <sub>2</sub> O <sub>3</sub> Precipitate	max. 0.02%	0394.2500	2.5 kg	
<b>CAS NO.</b>	144-55-8	Chloride (Cl)	max. 0.003%			
<b>EINECS</b>	205-633-8	Insoluble Matter	max. 0.015%			
<b>NC CODE</b>	2836 30 00	Iron (Fe)	max. 0.001%			
		Phosphate (PO <sub>4</sub> )	max. 0.001%			
		Potassium (K)	max. 0.005%			
		Sulfur Compounds (as SO <sub>4</sub> )	max. 0.003%			
		<b>Trace Impurities (in ppm):</b>				
		Ammonium (NH <sub>4</sub> )	max. 5			
		Heavy Metals (as Pb)	max. 5			
		<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>				
		at 254 nm	max. 0.05			
		at 280 nm	max. 0.02			
		at 350 nm	max. 0.01			

## Sodium Hydrogen Carbonate

0263 Powder / 'BAKER ANALYZED' / ACS

▶ NaHCO<sub>3</sub>

**M** = 84.01 g/mol  
**CAS NO.** 144-55-8  
**EINECS** 205-633-8  
**NC CODE** 2836 30 00

### Meets ACS Specifications

Assay (dried basis)	99.7-100.3%
Calcium (Ca)	max. 0.02%
Chloride (Cl)	max. 0.003%
Insoluble Matter	max. 0.015%
Iron (Fe)	max. 0.001%
Magnesium (Mg)	max. 0.005%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Potassium (K)	max. 0.005%
Sulfur Compounds (as SO <sub>4</sub> )	max. 0.003%
<b>Trace Impurities (in ppm):</b>	
Ammonium (NH <sub>4</sub> )	max. 5
Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0263.0500	500 g	6
0263.1000	1 kg	6
0263.5000	5 kg	4

## Sodium Hydrogen Carbonate

1780 Powder / 'BAKER'

▶ NaHCO<sub>3</sub>

**M** = 84.01 g/mol  
**CAS NO.** 144-55-8  
**EINECS** 205-633-8  
**NC CODE** 2836 30 00

Assay	99.0-101.0%
Ammonium (NH <sub>4</sub> )	max. 20 ppm
Appearance of solution	passes test
Arsenic (As)	max. 2 ppm
Calcium (Ca)	max. 100 ppm
Carbonate (CO <sub>3</sub> )	passes test
Chloride (Cl)	max. 150 ppm
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Iron (Fe)	max. 20 ppm
Sulfate (SO <sub>4</sub> )	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
1780.1000	1 kg	6
1780.5000	5 kg	
1780.9050	50 kg	

## Sodium Hydrogen Phosphate Anhydrous

4062 Powder / 'BAKER ULTRAPURE BIOREAGENT'

▶ Na<sub>2</sub>HPO<sub>4</sub>

**M** = 141.96 g/mol  
**CAS NO.** 7558-79-4  
**EINECS** 231-448-7  
**NC CODE** 2835 22 00

### For Liquid Chromatography and Molecular Biology applications

Assay	min. 99.0%
DNAase Activity	none detected
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.2%
pH of 5% Solution at 25°C	8.7-9.3
Protease Activity	none detected
RNAase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4062.0500	500 g	
4062.2500	2.5 kg	

## Sodium Hydrogen Phosphate Anhydrous

0306 'BAKER ANALYZED' / ACS

▶ Na<sub>2</sub>HPO<sub>4</sub>

**M** = 141.96 g/mol  
**CAS NO.** 7558-79-4  
**EINECS** 231-448-7  
**NC CODE** 2835 22 00

### Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.002%
Loss on Drying at 105°C	max. 0.2%
pH of 5% Solution at 25°C	8.7-9.3
Sulfate (SO <sub>4</sub> )	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
0306.0500	500 g	6
0306.1000	1 kg	6
0306.5000	5 kg	

## Sodium Hydrogen Phosphate, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Hydrogen Phosphate Dihydrate

'BAKER ANALYZED'

0326

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ Na <sub>2</sub> HPO <sub>4</sub> ·2H <sub>2</sub> O <b>M</b> = 177.99 g/mol <b>CAS NO.</b> 10028-24-7 <b>EINECS</b> 231-448-7 <b>NC CODE</b> 2835 22 00	Assay	min. 99%			
	Chloride (Cl)	max. 0.001%			
	Heavy Metals (as Pb)	max. 0.001%	0326.1000	1 kg	6
	Insoluble Matter	max. 0.005%	0326.9050	50 kg	
	Iron (Fe)	max. 0.001%			
	pH of 0.1 M Solution at 25°C	9.0-9.5			
	Sulfate (SO <sub>4</sub> )	max. 0.005%			

## Sodium Hydrogen Phosphate Dodecahydrate

'BAKER ANALYZED'

0304

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ Na <sub>2</sub> HPO <sub>4</sub> ·12H <sub>2</sub> O <b>M</b> = 358.14 g/mol <b>CAS NO.</b> 10039-32-4 <b>EINECS</b> 231-448-7 <b>NC CODE</b> 2835 22 00	Chloride (Cl)	max. 0.001%			
	Heavy Metals (as Pb)	max. 0.001%			
	Insoluble Matter	max. 0.005%	0304.1000	1 kg	6
	Iron (Fe)	max. 0.001%	0304.9050	50 kg	
	pH of 5% Solution at 25°C	8.7-9.3			
	Sulfate (SO <sub>4</sub> )	max. 0.02%			
	<b>Trace Impurities (in ppm):</b>				
	Nitrogen Compounds (as N)	max. 5			

## Sodium Hydrogen Phosphate Heptahydrate

crystal / 'BAKER ANALYZED' / ACS

0305

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ Na <sub>2</sub> HPO <sub>4</sub> ·7H <sub>2</sub> O <b>M</b> = 268.07 g/mol <b>CAS NO.</b> 7782-85-6 <b>EINECS</b> 231-448-7 <b>NC CODE</b> 2835 22 00	<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>				
	Assay	98.0-102.0%	0305.0500	500 g	
	Chloride (Cl)	max. 0.001%	0305.7100	100 lbs	
	Heavy Metals (as Pb)	max. 0.001%			
	Insoluble Matter	max. 0.005%			
	Iron (Fe)	max. 0.001%			
	Loss on Drying at 105°C	43-50%			
	pH of 5% Solution at 25°C	8.7-9.3			
	Sulfate (SO <sub>4</sub> )	max. 0.002%			

## Sodium Hydrogen Phosphate, 7-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Hydrogen Sulfate Monohydrate

'BAKER ANALYZED'

0264

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ NaHSO <sub>4</sub> ·H <sub>2</sub> O <b>M</b> = 138.07 g/mol <b>CAS NO.</b> 10034-88-5 <b>EINECS</b> 240-778-0 <b>NC CODE</b> 2833 19 00 <b>EC NO.</b> 16 046 00 0 <b>UN/ID NO.</b> 3260 <b>ADR/RID</b> 8 C2 <b>IMDG</b> 8/III <b>R:</b> 41 <b>S:</b> 24-26	Assay (as H <sub>2</sub> SO <sub>4</sub> )	35.0-36.5%			
	Calcium and Magnesium Precipitate	max. 0.005%			
	Chloride (Cl)	max. 0.001%	0264.1000	1 kg	
	Insoluble Matter and NH <sub>4</sub> OH Precipitate	max. 0.005%	0264.9050	50 kg	
	Iron (Fe)	max. 0.001%			
	Phosphate (PO <sub>4</sub> )	max. 0.001%			
	<b>Trace Impurities (in ppm):</b>				
	Arsenic (As)	max. 1			
	Heavy Metals (as Pb)	max. 5			



## Sodium Hydrogen Sulfite

'BAKER ANALYZED' / ACS

0266

			PRODUCT	PACKING	CONT.
			NO.		BOX
<b>CAS NO.</b> 7631-90-5 <b>EINECS</b> 231-548-0 <b>NC CODE</b> 2832 10 00 <b>EC NO.</b> 16 064 00 8 <b>R:</b> 22-31 <b>S:</b> 25-46	<b>Meets ACS Specifications</b>				
	Assay (as SO <sub>2</sub> ) (by iodometry)	min. 58.5%	0266.0500	500 g	6
	Chloride (Cl)	max. 0.02 %	0266.1000	1 kg	
	Heavy Metals (as Pb)	max. 0.001%	0266.9050	50 kg	
	Insoluble Matter	max. 0.005%			
	Iron (Fe)	max. 0.002%			
	Thiosulfate (S <sub>2</sub> O <sub>3</sub> )	act. value reported			



## Sodium Hydrosulfite

See Sodium Dithionite

## Sodium Hydroxide

0403 Pellets / 'BAKER ANALYZED'

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 11 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

Assay	min. 99.0%
Ammonium Hydroxide Precipitate	max. 0.02%
Chloride (Cl)	max. 5 ppm
Heavy Metals (as Ag)	max. 5 ppm
Heavy Metals (as Pb)	max. 5 ppm
Na <sub>2</sub> CO <sub>3</sub>	max. 1.0%
Potassium (K)	max. 0.01%

**Trace Impurities (in ppm):**

Iron (Fe)	max. 3
Mercury (Hg) (by AAS)	max. 0.1
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (as PO <sub>4</sub> )	max. 10
Sulfate (SO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0403.5000	5 kg	4
0403.9050	50 kg	

## Sodium Hydroxide

0402 Pellets / 'BAKER ANALYZED'

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 11 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

Assay	min. 98%
Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	max. 1%
Potassium (K)	max. 0.05%
Silica (SiO <sub>2</sub> )	max. 0.001%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 5
Calcium (Ca)	max. 5
Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Nickel (Ni)	max. 5
Phosphate (PO <sub>4</sub> )	max. 5
Sulfate (SO <sub>4</sub> )	max. 5
Total Nitrogen (N)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0402.0500	500 g	6
0402.1000	1 kg	6
0402.5000	5 kg	4
0402.9050	50 kg	

## Sodium Hydroxide

0903 Pellets / 'BAKER ANALYZED' / ACS

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 11 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

**Exceeds ACS Specifications. Meets Reagents Specifications for testing USP/NF monographs**

Assay	min. 97.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Ag)	max. 0.001%
Magnesium (Mg)	max. 0.002%
Potassium (K)	max. 0.01%
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	max. 0.5%

**Trace Impurities (in ppm):**

Iron (Fe)	max. 3
Mercury (Hg)	max. 0.1
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (PO <sub>4</sub> )	max. 2
Sulfate (SO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0903.0500	500 g	

Low in carbonate.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)



## Sodium Hydroxide

Pellets / 'BAKER ANALYZED' / ACS

0288

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 11 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

**Meets ACS Specifications. Meets Reagent****Specifications for testing USP/NF monographs**

Assay	min. 97.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Ag)	max. 0.001%
Magnesium (Mg)	max. 0.002%
Potassium (K)	max. 0.01%
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	max. 1.0%

**Trace Impurities (in ppm):**

Iron (Fe)	max. 3
Mercury (Hg)	max. 0.1
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 3
Phosphate (PO <sub>4</sub> )	max. 2
Sulfate (SO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0288.1000	1 kg	6
0288.5000	5 kg	4
0288.9025	25 kg	
0288.9050	50 kg	

## Sodium Hydroxide

Pellets / 'BAKER'

0404

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 11 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

Assay	min. 97%
Aluminium (Al)	max. 0.002%
Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	max. 1%
Chloride (Cl)	max. 0.01%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.002%
Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0404.1000	1 kg	6

## Sodium Hydroxide

pearls / 'BAKER'

0405

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 11 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

Appearance of solution	passes test
Assay	97.0-100.5%
Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	max. 2.0%
Chlorides (as Cl)	max. 50 ppm
Iron (Fe)	max. 10 ppm
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Potassium (K)	passes test
Sulfates (as SO <sub>4</sub> )	max. 50 ppm

PRODUCT NO.	PACKING	CONT. BOX
0405.1000	1 kg	6
0405.5000	5 kg	4
0405.9025	25 kg	

Stored in an airtight non-metallic container.

## Sodium Hydroxide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

*Innovation is principal to our business.*

## Sodium Hydroxide

7067 50% / 'BAKER ANALYZED'

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.54 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

Assay	50-52%
Ammonium Hydroxide Precipitate	max. 0.01%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Ag)	max. 0.001%
Potassium (K)	max. 0.01%
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	max. 0.1%
Sulfate (SO <sub>4</sub> )	max. 0.001%

### Trace Impurities (in ppm):

Iron (Fe)	max. 5
Nickel (Ni)	max. 5
Nitrogen Compounds (as N)	max. 5
Phosphate (PO <sub>4</sub> )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7067.1000	1 l	6
7067.2500	2.5 l	4
7067.9025	25 l	

## Sodium Hydroxide

6165 40% / 'BAKER'

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.38 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



corrosive

Assay	min. 40.0%
Density (g/ml) at 20°C	1.43

### Trace Impurities (in ppm):

Iron (Fe)	max. 5
Nitrogen Compounds (as N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
6165.9010	10 l Polycube	

## Sodium Hydroxide

7109 32% / 'BAKER ANALYZED'

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.35 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

Assay (acidimetric)	min. 32%
Chloride (Cl)	max. 0.002%
Silica (SiO <sub>2</sub> )	max. 0.003%
Sodium Carbonate (acidimetric)	max. 1%
Sulfate (SO <sub>4</sub> )	max. 0.001%

### Trace Impurities (in ppm):

Aluminium (Al)	max. 5
Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Phosphate (PO <sub>4</sub> )	max. 5
Total Nitrogen (N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
7109.2500	2.5 l	4
7109.5000	5 l HDPE	4
7109.9010	10 l Polycube	
7109.9025	25 l	


For Nitrogen determination.

Certificates of Analysis are available  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Sodium Hydroxide

20% / 'BAKER ANALYZED'


6164

▶ NaOH			Assay	min. 20%	PRODUCT NO.	PACKING	CONT. BOX
<b>CAS NO.</b>	1310-73-2				6164.5000	5 l	
<b>EINECS</b>	215-185-5				6164.9010	10 l Polycube	
<b>NC CODE</b>	2815 12 00						
<b>EC NO.</b>	11 002 00 6						
<b>UN/ID NO.</b>	1824						
<b>ADR/RID</b>	8 C5						
<b>IMDG</b>	8/II						
<b>R:</b>	35						
<b>S:</b>	26-36/37/39-45						
	 C						
	corrosive						

## Sodium Hydroxide

6 mol/l / 'BAKER ANALYZED'


7620

▶ NaOH			Molarity (M)	5.95-6.05	PRODUCT NO.	PACKING	CONT. BOX
<b>CAS NO.</b>	1310-73-2				7620.5000	5 l	
<b>EINECS</b>	215-185-5						
<b>NC CODE</b>	2815 12 00						
<b>EC NO.</b>	11 002 00 6						
<b>UN/ID NO.</b>	1824						
<b>ADR/RID</b>	8 C5						
<b>IMDG</b>	8/II						
<b>R:</b>	35						
<b>S:</b>	26-36/37/39-45						
	 C						
	corrosive						
							<i>Volumetric Solution, ready for use.</i>

## Sodium Hydroxide

5 mol/l / 'BAKER ANALYZED'


7598

▶ NaOH			Titer (mol/l)	4.90-5.10	PRODUCT NO.	PACKING	CONT. BOX
<b>M =</b>	40.00 g/mol				7598.5000	5 l	
<b>CAS NO.</b>	1310-73-2						
<b>EINECS</b>	215-185-5						
<b>NC CODE</b>	2815 12 00						
<b>UN/ID NO.</b>	1824						
<b>ADR/RID</b>	8 C5						
<b>IMDG</b>	8/II						
<b>R:</b>	35						
<b>S:</b>	26-34-37/39-45						
	 C						
	corrosive						
							<i>Volumetric Solution, ready for use.</i>

## Sodium Hydroxide


4 mol/l / 'BAKER ANALYZED'

7202

▶ NaOH			Titer (mol/l)	3.98-4.02	PRODUCT NO.	PACKING	CONT. BOX
<b>M =</b>	40.00 g/mol				7202.5000	5 l	
<b>1 l =</b>	1.18 kg						
<b>CAS NO.</b>	1310-73-2						
<b>EINECS</b>	215-185-5						
<b>NC CODE</b>	2815 12 00						
<b>UN/ID NO.</b>	1824						
<b>ADR/RID</b>	8 C5						
<b>IMDG</b>	8/II						
<b>R:</b>	35						
<b>S:</b>	26-34-37/39-45						
	 C						
	corrosive						
							<i>Volumetric Solution, ready for use.</i>


## Sodium Hydroxide

7621 3 mol/l / 'BAKER ANALYZED'

▶ NaOH	Molarity (M)	2.98-3.02	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>CAS NO.</b> 1310-73-2			7621.5000	5 l	
<b>EINECS</b> 215-185-5			<i>Volumetric Solution, ready for use.</i>		
<b>NC CODE</b> 2815 12 00					
<b>EC NO.</b> 11 002 00 6					
<b>UN/ID NO.</b> 1824					
<b>ADR/RID</b> 8 C5					
<b>IMDG</b> 8/II					
<b>R:</b> 35					
<b>S:</b> 26-36/37/39-45					
 C					
corrosive					


## Sodium Hydroxide

7036 2 mol/l / 'BAKER ANALYZED'

▶ NaOH	Titer (mol/l)	1.995-2.005	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 40.00 g/mol	<b>Trace Impurities (in ppm):</b>		7036.1000	1 l	6
<b>1 l</b> = 1.09 kg	Chloride (Cl)	max. 5	7036.5000	5 l	4
<b>CAS NO.</b> 1310-73-2	Heavy Metals (as Pb)	max. 1	<i>Volumetric Solution, ready for use.</i>		
<b>EINECS</b> 215-185-5	Iron (Fe)	max. 0.5	Each lot of this product is standardized potentiometrically against a NIST traceable reference standard.		
<b>NC CODE</b> 2815 12 00					
<b>UN/ID NO.</b> 1824					
<b>ADR/RID</b> 8 C5					
<b>IMDG</b> 8/II					
<b>R:</b> 35					
<b>S:</b> 26-37/39-45					
 C					
corrosive					


## Sodium Hydroxide

7557 1.5 mol/l / 'BAKER ANALYZED'

▶ NaOH	Titer (mol/l)	1.495 - 1.505	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>CAS NO.</b> 1310-73-2			7557.9010	10 l	
<b>EINECS</b> 215-185-5			<i>Volumetric Solution, ready for use.</i>		
<b>NC CODE</b> 2815 12 00					
<b>UN/ID NO.</b> 1824					
<b>ADR/RID</b> 8 C5					
<b>IMDG</b> 8/II					
<b>R:</b> 35					
<b>S:</b> 26-37/39-45					
 C					
corrosive					

## Sodium Hydroxide

7097 1 mol/l / 'BAKER ANALYZED'

▶ NaOH	Titer (mol/l)	0.997-1.003	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
<b>M</b> = 40.00 g/mol	<b>Trace Impurities (in ppm):</b>		7097.1000	1 l	6
<b>1 l</b> = 1.05 kg	Chloride (Cl)	max. 5	7097.9010	10 l Polycube	4
<b>CAS NO.</b> 1310-73-2	Heavy Metals (as Pb)	max. 1	7097.9020	20 l	
<b>EINECS</b> 215-185-5	Iron (Fe)	max. 0.5	<i>Volumetric Solution, ready for use.</i>		
<b>NC CODE</b> 2815 12 00			Each lot of this product is standardized potentiometrically against NIST traceable reference standard.		
<b>EC NO.</b> 11 002 00 6					
<b>UN/ID NO.</b> 1824					
<b>ADR/RID</b> 8 C5					
<b>IMDG</b> 8/II					
<b>R:</b> 34					
<b>S:</b> 26-36/37/39-45					
 C					
corrosive					

## Sodium Hydroxide

0.5 mol/l / 'BAKER ANALYZED'

7105

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.02 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



Titer (mol/l) 0.4975-0.5025

## Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
7105.1000	1 l	
7105.5000	5 l Polycube	4
7105.9010	10 l Polycube	4
7105.9020	20 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Hydroxide

0.357 mol/l / 1/2.8 mol/l / 'BAKER ANALYZED'

7214

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.02 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



Titer (mol/l) 0.355 - 0.359

PRODUCT NO.	PACKING	CONT. BOX
7214.1000	1 l	
7214.9010	10 l Polycube	

Volumetric Solution, ready for use.

## Sodium Hydroxide

0.33 mol/l / 'BAKER ANALYZED'

7201

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.02 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



Titer (mol/l) 0.325-0.335

PRODUCT NO.	PACKING	CONT. BOX
7201.1000	1 l	
7201.9010	10 l	

Volumetric Solution, ready for use.

## Sodium Hydroxide

0.25 mol/l / 'BAKER ANALYZED'

7112

▶ NaOH

**M** = 40.00 g/mol  
**1 l** = 1.01 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II

Titer (mol/l) 0.2485-0.2515

## Trace Impurities (in ppm):

Chloride (Cl)	max. 5
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
7112.1000	1 l	
7112.9010	10 l Polycube	

Volumetric Solution, ready for use.

Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

# Sodiu

A  
B  
C  
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Q  
R  
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V  
W  
X  
Y  
Z

## Sodium Hydroxide

7216 0.2 mol/l / 'BAKER ANALYZED'

**1 l** = 1.01 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



Titer (mol/l) 0.199-0.201

PRODUCT NO.	PACKING	CONT. BOX
7216.1000	1 l	6
7216.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Hydroxide

7098 0.1 mol/l / 'BAKER ANALYZED'

▶ NaOH  
**M** = 40.00 g/mol  
**1 l** = 1.00 kg  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II

Titer (mol/l) 0.0997-0.1003  
**Trace Impurities (in ppm):**  
 Chloride (Cl) max. 5  
 Heavy Metals (as Pb) max. 1  
 Iron (Fe) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
7098.1000	1 l	6
7098.5000	5 l Jerrycan	
7098.9010	10 l Polycube	
7098.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Hydroxide

7480 0.05 mol/l / 'BAKER ANALYZED'

▶ NaOH  
**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/III

Titer (mol/l) 0.0495-0.0505

PRODUCT NO.	PACKING	CONT. BOX
7480.1000	1 l	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Hydroxide

7475 0.0357 mol/l / 'BAKER ANALYZED'

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/III

Titer (mol/l) 0.035 - 0.037

PRODUCT NO.	PACKING	CONT. BOX
7475.9010	10 l Polycube	

*Volumetric Solution, ready for use.*

## Sodium Hydroxide

7099 0.02 mol/l / 'BAKER ANALYZED'

▶ NaOH  
**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/III

Titer (mol/l) 0.0195-0.0205

PRODUCT NO.	PACKING	CONT. BOX
7099.0500	500 ml	
7099.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Hydroxide

5 mol/l / DILUT-IT / 5 equiv. = 200.0g; 5N

4690

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4690	500 ml Sealed Bottle	

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide

1 mol/l, 1 equiv. = 40.00g, 1N / DILUT-IT

4689

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4689	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide

0.5 mol/l / DILUT-IT

4691

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4691	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide

0.25 mol/l / DILUT-IT

4865

▶ NaOH

**M** = 40.00 g/mol  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4865	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide

4687 0.1 mol/l, 1/10 equiv. = 4.000g, 0.1 N / DILUT-IT

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 35  
**S:** 26-34-37/39-45



PRODUCT NO.	PACKING	CONT. BOX
4687	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide

4715 0.02 mol/l / DILUT-IT / 1/50 equiv. = 0.800g; 0.02N

▶ NaOH

**M** = 40.00 g/mol  
**CAS NO.** 1310-73-2  
**EINECS** 215-185-5  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



PRODUCT NO.	PACKING	CONT. BOX
4715	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide

4864 0.01 mol/l / DILUT-IT

▶ NaOH

**M** = 40.00 g/mol  
**NC CODE** 2815 12 00  
**UN/ID NO.** 1824  
**ADR/RID** 8 C5  
**IMDG** 8/II  
**R:** 36/38  
**S:** 26



PRODUCT NO.	PACKING	CONT. BOX
4864	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sodium Hydroxide Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Hydroxide on support

0458 Granular 1.6-3 mm / 'BAKER ANALYZED'

**EINECS** 215-185-5  
**NC CODE** 3822 00 00  
**EC NO.** 11 002 00 6  
**UN/ID NO.** 1823  
**ADR/RID** 8 C6  
**IMDG** 8/II  
**R:** 35  
**S:** 26-37/39-45



CO<sub>2</sub> absorption capacity min. 50%  
 Loss on Ignition 18-25%

PRODUCT NO.	PACKING	CONT. BOX
0458.0500	500 g	6

## Sodium Hypochlorite 5% Solution, Sterile

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



## Sodium Iodide

'BAKER ANALYZED'

0293

		PRODUCT NO.	PACKING	CONT. BOX	
▶ Nal <b>M</b> = 149.89 g/mol <b>CAS NO.</b> 7681-82-5 <b>EINECS</b> 231-679-3 <b>NC CODE</b> 2827 60 00	Assay (dried basis)			min. 99.0%	
	Barium (Ba)			max. 0.002%	
	Chloride and Bromide (as Cl)			max. 0.01%	
	Heavy Metals (as Pb)			max. 5 ppm	
	Insoluble Matter			max. 0.005%	
	Iodate (IO <sub>3</sub> )			max. 3 ppm	
	Iron (Fe)			max. 5 ppm	
	Nitrogen Compounds (as N)			max. 0.001%	
	pH of 5% Solution at 25°C			7.5-9.5	
	Phosphate (PO <sub>4</sub> )			max. 0.002%	
	Sulfate (SO <sub>4</sub> )			max. 0.005%	
			0293.0500	500 g	
			0293.9050	50 kg	

## Sodium Iodide

'BAKER'

0294

		PRODUCT NO.	PACKING	CONT. BOX
▶ Nal <b>M</b> = 149.89 g/mol <b>CAS NO.</b> 7681-82-5 <b>EINECS</b> 231-679-3 <b>NC CODE</b> 2827 60 00	Assay			99.0-100.5%
	Alkalinity			passes test
	Appearance of solution			passes test
	Heavy Metals (as Pb)			max. 10 ppm
	Identification			passes test
	Iodate (IO <sub>3</sub> )			passes test
	Iron (Fe)			max. 20 ppm
	Limit of nitrate, nitrite and ammonia			passes test
	Loss on Drying			max. 3.0%
	Potassium (K)			passes test
	Sulfate (SO <sub>4</sub> )			max. 150 ppm
	Thiosulfates (as S <sub>2</sub> O <sub>3</sub> )			passes test
	Water (H <sub>2</sub> O)			max. 2.0%
			0294.0250	250 g
		0294.0500	500 g	6
		0294.1000	1 kg	6
		0294.9050	50 kg	

Preserve in tight containers.  
Stored protected from light.

## Sodium Iodide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Lactate

60 % / syrup / 'BAKER'

7391

		PRODUCT NO.	PACKING	CONT. BOX
▶ CH <sub>3</sub> CHOHCOONa <b>M</b> = 112.06 g/mol <b>11</b> = 1.28 kg <b>CAS NO.</b> 72-17-3 <b>EINECS</b> 200-772-0 <b>NC CODE</b> 2918 11 00	Assay			59-61%
		7391.0500	500 ml	
		7391.2500	2.5 l	
		7391.9025	25 l	

## Sodium meta-Bisulfite

See Sodium Disulfite

## Sodium meta-Bisulfite

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Metaperiodate

See Sodium Tetroxiodate(VII)

Find more Chromatography information  
at [www.jtbaker.com/chromatography](http://www.jtbaker.com/chromatography)

## Sodium Metasilicate Pentahydrate

0302 'BAKER ANALYZED'

▶ $\text{Na}_2\text{SiO}_3 \cdot 5\text{H}_2\text{O}$	Assay	min. 93%
<b>M</b> = 212.20 g/mol	Appearance of 3% Solution	clear
<b>CAS NO.</b> 6834-92-0	Chloride (Cl)	max. 0.05%
<b>EINECS</b> 229-912-9	Heavy Metals (as Pb)	max. 0.001%
<b>NC CODE</b> 2839 11 00	Iron (Fe)	max. 0.02%
<b>EC NO.</b> 14 010 00 8	pH of 3% Solution at 25°C	min. 12.3
<b>UN/ID NO.</b> 3253	Sulfate ( $\text{SO}_4$ )	max. 0.01%
<b>ADR/RID</b> 8 C6		
<b>IMDG</b> 8/III		
<b>R:</b> 34-37		
<b>S:</b> 13-24/25-36/37/39-45		



PRODUCT NO.	PACKING	CONT. BOX
0302.0250	250 g	
0302.5000	5 kg	4

## Sodium Molybdate Dihydrate

0295 'BAKER ANALYZED' / ACS

▶ $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	<b>Meets ACS Specifications</b>	
<b>M</b> = 241.95 g/mol	Assay	99.5-103.0%
<b>CAS NO.</b> 10102-40-6	Ammonium ( $\text{NH}_4$ )	max. 0.001%
<b>EINECS</b> 231-551-7	Chloride (Cl)	max. 0.005%
<b>NC CODE</b> 2841 70 00	Insoluble Matter	max. 0.005%
	Iron (Fe)	max. 0.001%
	pH of 5% Solution at 25°C	7.0-10.5
	Sulfate ( $\text{SO}_4$ )	max. 0.015%
	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Phosphate ( $\text{PO}_4$ )	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0295.0250	250 g	
0295.1000	1 kg	
0295.9050	50 kg	

## Sodium Nitrate

0296 'BAKER ANALYZED' / ACS

▶ $\text{NaNO}_3$	<b>Exceeds ACS Specifications</b>	
<b>M</b> = 84.99 g/mol	Assay	min. 99.0%
<b>CAS NO.</b> 7631-99-4	Calcium (Ca)	max. 0.005%
<b>EINECS</b> 231-554-3	Chloride (Cl)	max. 0.001%
<b>NC CODE</b> 3102 50 90	Insoluble Matter	max. 0.005%
<b>UN/ID NO.</b> 1498	Magnesium (Mg)	max. 0.002%
<b>ADR/RID</b> 5.1 O2	Nitrite ( $\text{NO}_2$ )	max. 0.001%
<b>IMDG</b> 5.1/III	pH of 5% Solution at 25°C	5.5-8.3
<b>R:</b> 8	Sulfate ( $\text{SO}_4$ )	max. 0.002%
<b>S:</b> 17-41	<b>Trace Impurities (in ppm):</b>	
	Heavy Metals (as Pb)	max. 5
	Iodate ( $\text{IO}_3$ )	max. 5
	Iron (Fe)	max. 2
	Phosphate ( $\text{PO}_4$ )	max. 5



PRODUCT NO.	PACKING	CONT. BOX
0296.0500	500 g	6
0296.5000	5 kg	
0296.9050	50 kg	

## Sodium Nitrate

2017 'BAKER'

▶ $\text{NaNO}_3$	Loss on Drying	max. 1.0%
<b>M</b> = 84.99 g/mol		
<b>CAS NO.</b> 7631-99-4		
<b>EINECS</b> 231-554-3		
<b>NC CODE</b> 3102 50 90		
<b>UN/ID NO.</b> 1498		
<b>ADR/RID</b> 5.1 O2		
<b>IMDG</b> 5.1/III		
<b>R:</b> 8		
<b>S:</b> 17-41		



PRODUCT NO.	PACKING	CONT. BOX
2017.1000	1 kg	
2017.9050	50 kg	

## Sodium Nitrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Nitrite

'BAKER ANALYZED' / ACS

0297

▶ NaNO<sub>2</sub>

M = 69.00 g/mol

CAS NO. 7632-00-0

EINECS 231-555-9

NC CODE 2834 10 00

EC NO. 7 010 00 4

UN/ID NO. 1500

ADR/RID 5.1 OT2

IMDG 5.1/III

R: 25-50-8

S: 45-61

dangerous  
for the  
environment

oxidizing



toxic

**Exceeds ACS Specifications. Meets Reagents****Specifications for testing USP/NF monographs**

Assay	min. 97.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Potassium (K)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.01%

**Trace Impurities (in ppm):**

Arsenic (As)	max. 3
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0297.0100	100 g	
0297.1000	1 kg	
0297.9025	25 kg	
0297.9050	50 kg	

## Sodium Nitrite

'BAKER'

0298

▶ NaNO<sub>2</sub>

M = 69.00 g/mol

CAS NO. 7632-00-0

EINECS 231-555-9

NC CODE 2834 10 00

EC NO. 7 010 00 4

UN/ID NO. 1500

ADR/RID 5.1 OT2

IMDG 5.1/III

R: 25-50-8

S: 45-61

dangerous  
for the  
environment

oxidizing



toxic

Assay (dried basis)	98.5-100.5%
Acidity or Alkalinity	passes test
Appearance of solution	passes test
Chloride (Cl)	max. 50 ppm
Heavy Metals (as Pb)	max. 20 ppm
Identification	passes test
Loss on Drying	max. 0.25%
Sulfates (as SO <sub>4</sub> )	max. 200 ppm

PRODUCT NO.	PACKING	CONT. BOX
0298.1000	1 kg	
0298.9050	50 kg	

Stored in an airtight container.

## Sodium Nitrite

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Nitroferricyanide

See Sodium Pentacyanonitrosylferrate(III) Dihydrate

## Sodium Oleate

'BAKER'

1916

▶ CH<sub>3</sub>(CH<sub>2</sub>)<sub>7</sub>CH:CH(CH<sub>2</sub>)<sub>7</sub>COONa

M = 304.45 g/mol

CAS NO. 143-19-1

EINECS 205-591-0

NC CODE 2916 15 00

Iodine number of free acid 85.0-95.0

PRODUCT NO.	PACKING	CONT. BOX
1916.0250	250 g	

## Sodium Oxalate

'BAKER ANALYZED' / ACS

0301

▶ NaOCOCOO<sub>2</sub>Na

M = 134.00 g/mol

CAS NO. 62-76-0

EINECS 200-550-3

NC CODE 2917 11 00

EC NO. 607 007 00 3

UN/ID NO. 3282

ADR/RID 6.1 T3

IMDG 6.1/III

R: 21/22

S: 24/25



harmful

**Exceeds ACS Specifications**

Assay (by KMnO <sub>4</sub> titrn.)	min. 99.8%
Ammonium (NH <sub>4</sub> )	max. 0.002%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Loss on Drying at 105°C	max. 0.01%
Neutrality	passes test
Potassium (K)	max. 0.005%
Substances Darkened by Hot H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfate (SO <sub>4</sub> )	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0301.0250	250 g	
0301.9050	50 kg	

## Sodium Oxalate

2018 'BAKER'

▶ NaOCOCOONa

**M** = 134.00 g/mol  
**CAS NO.** 62-76-0  
**EINECS** 200-550-3  
**NC CODE** 2917 11 00  
**EC NO.** 607 007 00 3  
**UN/ID NO.** 3282  
**ADR/RID** 6.1 T3  
**IMDG** 6.1/III  
**R:** 21/22  
**S:** 24/25



Assay	min. 99.0%
Chloride (Cl)	max. 0.005%
Heavy Metals (as Pb)	max. 0.01%
Iron (Fe)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
2018.1000	1 kg	

## Sodium Pentacyanonitrosylferrate(III) Dihydrate

1190 'BAKER ANALYZED' / ACS

▶ Na<sub>2</sub>Fe(CN)<sub>5</sub>NO·2H<sub>2</sub>O

**M** = 297.95 g/mol  
**CAS NO.** 13755-38-9  
**EINECS** 238-373-9  
**NC CODE** 2837 20 00  
**UN/ID NO.** 1588  
**ADR/RID** 6.1 T5  
**IMDG** 6.1/II  
**R:** 25  
**S:** 22-37-45



*Exceeds ACS Specifications*

Assay	99.0-102.0%
Chloride (Cl)	max. 0.02%
Insoluble Matter	max. 0.01%
pH of 5% Solution at 25°C	4.0-7.0
Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
1190.0100	100 g	

## Sodium Perborate, 4-Hydrate

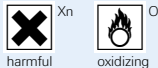
See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Perchlorate Monohydrate

2815 'BAKER ANALYZED' / ACS

▶ NaClO<sub>4</sub>·H<sub>2</sub>O

**M** = 140.46 g/mol  
**CAS NO.** 7791-07-3  
**EINECS** 231-511-9  
**NC CODE** 2829 90 10  
**EC NO.** 17 010 00 6  
**UN/ID NO.** 1502  
**ADR/RID** 5.1 O2  
**IMDG** 5.1/II  
**R:** 22-9  
**S:** 13-22-27



Assay	min. 99.5%
Assay (NaClO <sub>4</sub> )	85.0-90.0%
Barium (Ba)	max. 0.004%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.003%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Potassium (K)	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
2815.0100	100 g	6
2815.1000	1 kg	6

## Sodiummeta-Periodate

See Sodium Tetroxiodate(VII)

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Sodium Peroxide

Granular 0.3-2.0 mm / 'BAKER ANALYZED' / ACS

9015

▶ Na<sub>2</sub>O<sub>2</sub>

**M** = 77.98 g/mol  
**CAS NO.** 1313-60-6  
**EINECS** 215-209-4  
**NC CODE** 2815 30 00  
**EC NO.** 11 003 00 1  
**UN/ID NO.** 1504  
**ADR/RID** 5.1 02  
**IMDG** 5.1/I  
**R:** 35-8  
**S:** 27-39-45-8



## Meets ACS Specifications

Assay	min. 93.0%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.002%
Iron (Fe)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.001%

## Trace Impurities (in ppm):

Phosphate (PO <sub>4</sub> )	max. 5
------------------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
9015.0500	500 g	
9015.1000	1 kg	6
9015.9050	50 kg	

## Sodium Phosphate Dodecahydrate

'BAKER ANALYZED' / ACS

0307

▶ Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O

**M** = 380.12 g/mol  
**CAS NO.** 10101-89-0  
**EINECS** 231-509-8  
**NC CODE** 2835 23 00  
**R:** 36/38  
**S:** 26



## Meets ACS Specifications

Assay	98.0-102.0%
Chloride (Cl)	max. 0.001%
Excess Alkali (as NaOH)	max. 2.5%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
0307.1000	1 kg	6
0307.9050	50 kg	

## Sodium Phosphate Dodecahydrate

'BAKER'

0308

▶ Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O

**M** = 380.12 g/mol  
**CAS NO.** 10101-89-0  
**EINECS** 231-509-8  
**NC CODE** 2835 23 00  
**R:** 36/38  
**S:** 26



Assay min. 98%

PRODUCT NO.	PACKING	CONT. BOX
0308.1000	1 kg	6
0308.5000	5 kg	
0308.9050	50 kg	

## Sodium Phosphate, Dibasic, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Phosphate, Dibasic, 7-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Phosphate, Monobasic, Monohydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Pyrophosphate

See Sodium Diphosphate Decahydrate

## Sodium Pyrosulfite

See Sodium Disulfite

## Sodium Pyruvate

'BAKER'

2456

▶ CH<sub>3</sub>COCOONa

**M** = 110.05 g/mol  
**CAS NO.** 113-24-6  
**EINECS** 204-024-4  
**NC CODE** 2918 30 00

Assay (by Perchloric Acid titm.) min. 98%  
 Water (H<sub>2</sub>O) max. 2%

PRODUCT NO.	PACKING	CONT. BOX
2456.0100	100 g	

## Sodium Rhodanide

See Sodium Thiocyanate

## Sodium Salicylate

2028 'BAKER ANALYZED'

▶ 2-HOC<sub>6</sub>H<sub>4</sub>COONa

M = 160.11 g/mol

CAS NO. 54-21-7

EINECS 200-198-0

NC CODE 2918 21 00

R: 22

S: 24/25



harmful

Assay (after drying)	min. 99.5%
Chloride (Cl)	max. 0.002%
Heavy Metals (as Pb)	max. 0.001%
Iron (Fe)	max. 0.001%
Sulfate (SO <sub>4</sub> )	max. 0.02%
Water (H <sub>2</sub> O)	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
2028.0250	250 g	6

## Sodium Salicylate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Succinate Hexahydrate

0620 'BAKER'

▶ NaO<sub>2</sub>COCH<sub>2</sub>CH<sub>2</sub>COONa.6H<sub>2</sub>O

M = 270.15 g/mol

CAS NO. 150-90-3

EINECS 205-778-7

NC CODE 2917 19 90

Water (H <sub>2</sub> O)	38-42%
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PRODUCT NO.	PACKING	CONT. BOX
0620.0500	500 g	
0620.5000	5 kg	

## Sodium Sulfate Anhydrous

3375 12-60 mesh / 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis / ACS

▶ Na<sub>2</sub>SO<sub>4</sub>

M = 142.04 g/mol

CAS NO. 7757-82-6

EINECS 231-820-9

NC CODE 2833 11 00

### Meets ACS Specifications

Assay	min. 99.0%
Calcium (Ca)	max. 0.01%
Chloride (Cl)	max. 0.001%
Extraction-Concentration Suitability	passes test
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.001%
Loss on Ignition	max. 0.5%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	5.2-9.2
Phosphate (as PO <sub>4</sub> )	max. 0.001%
Potassium (K)	max. 0.002%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Nitrogen Compounds (as N)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
3375.0500	500 g	
3375.1000	1 kg	

## Sodium Sulfate Anhydrous

3377-00 12-60 mesh / 'BAKER ANALYZED' / For Hydrocarbon Oil Index determination

▶ Na<sub>2</sub>SO<sub>4</sub>

M = 142.04 g/mol

CAS NO. 7757-82-6

EINECS 231-820-9

NC CODE 2833 11 00

Assay	min. 99.0%
Insoluble Matter	max. 0.01%
Loss on Ignition	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
3377-00	100 g	

Suitable for determination of Hydrocarbon Oil Index according to ISO 9377-2 and NEN 5733.  
After opening: Store in desiccator.

*Innovation is principal to our business.*

## Sodium Sulfate Anhydrous

'BAKER ANALYZED'

0313

▶ Na <sub>2</sub> SO <sub>4</sub>		Assay	min. 99.0%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	142.04 g/mol	Calcium, Magnesium and R <sub>2</sub> O <sub>3</sub> Precipitate	max. 0.01%	0313.0500	500 g	
<b>CAS NO.</b>	7757-82-6	Chloride (Cl)	max. 0.001%	0313.1000	1 kg	6
<b>EINECS</b>	231-820-9	Insoluble Matter	max. 0.01%	0313.5000	5 kg	4
<b>NC CODE</b>	2833 11 00	Loss on Ignition	max. 0.5%	0313.9025	25 kg	
		pH of 5% Solution at 25°C	5.2-9.2	0313.9050	50 kg	
		Potassium (K) (by AAS)	max. 0.01%			
		<b>Trace Impurities (in ppm):</b>				
		Arsenic (As)	max. 0.5			
		Heavy Metals (as Pb)	max. 5			
		Iron (Fe)	max. 5			
		Nitrogen Compounds (as N)	max. 5			

## Sodium Sulfate Anhydrous

'BAKER ANALYZED' / ACS

0312

▶ Na <sub>2</sub> SO <sub>4</sub>		<b>Meets ACS Specifications</b>		PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	142.04 g/mol	Assay	min. 99.0%	0312.0100	100 g	
<b>CAS NO.</b>	7757-82-6	Calcium (Ca)	max. 0.01%	0312.1000	1 kg	6
<b>EINECS</b>	231-820-9	Chloride (Cl)	max. 0.001%	0312.9050	50 kg	
<b>NC CODE</b>	2833 11 00	Insoluble Matter	max. 0.01%			
		Iron (Fe)	max. 0.001%			
		Loss on Ignition	max. 0.5%			
		Magnesium (Mg)	max. 0.005%			
		pH of 5% Solution at 25°C	5.2-9.2			
		Phosphate (as PO <sub>4</sub> )	max. 0.001%			
		Potassium (K)	max. 0.002%			
		<b>Trace Impurities (in ppm):</b>				
		Heavy Metals (as Pb)	max. 5			
		Nitrogen Compounds (as N)	max. 5			

## Sodium Sulfate, Anhydrous

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Sulfate Decahydrate

'BAKER ANALYZED'

0311

▶ Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O		Assay	min. 98.0%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	322.19 g/mol	Calcium and Magnesium (as Ca)	max. 0.005%	0311.1000	1 kg	
<b>CAS NO.</b>	7727-73-3	Chloride (Cl)	max. 0.001%			
<b>EINECS</b>	231-820-9	Insoluble Matter	max. 0.005%			
<b>NC CODE</b>	2833 11 00	pH of 5% Solution at 25°C	4.5-6.5			
		<b>Trace Impurities (in ppm):</b>				
		Arsenic (As)	max. 0.5			
		Heavy Metals (as Pb)	max. 5			
		Iron (Fe)	max. 5			
		Nitrogen Compounds (as N)	max. 5			

## Sodium Sulfate Decahydrate

'BAKER'

1774

▶ Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O		Assay (dried basis)	98.5-101.0%	PRODUCT NO.	PACKING	CONT. BOX
<b>M</b> =	322.19 g/mol	Acidity or Alkalinity	passes test	1774.5000	5 kg	
<b>CAS NO.</b>	7727-73-3	Appearance of solution	passes test	1774.9050	50 kg	
<b>EINECS</b>	231-820-9	Chloride (Cl)	max. 200 ppm			
<b>NC CODE</b>	2833 11 00	Heavy Metals (as Pb)	max. 20 ppm			
		Identification	passes test			
		Loss on Drying	52.0-57.0%			

## Sodium Sulfate, 10-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sodium Sulfite Anhydrous

0316 'BAKER ANALYZED' / ACS

			PRODUCT	PACKING	CONT.	
			NO.		BOX	
▶ Na <sub>2</sub> SO <sub>3</sub> M = 126.04 g/mol CAS NO. 7757-83-7 EINECS 231-821-4 NC CODE 2832 10 00	<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>					
	Assay (by iodometry)	min. 98.0%		0316.0250	250 g	6
	Appearance	passes test		0316.1000	1 kg	6
	Chloride (Cl)	max. 0.02%		0316.9012PE	12 kg PE Pail	
	Free Acid	passes test				
	Heavy Metals (as Pb)	max. 0.001%				
	Insoluble Matter	max. 0.005%				
	Titration Free Base (meq/g)	max. 0.03				
	<b>Trace Impurities (in ppm):</b>					
	Iron (Fe)	max. 5				

## Sodium Sulfite Anhydrous

1777 'BAKER'

			PRODUCT	PACKING	CONT.	
			NO.		BOX	
▶ Na <sub>2</sub> SO <sub>3</sub> M = 126.04 g/mol CAS NO. 7757-83-7 EINECS 231-821-4 NC CODE 2832 10 00	<b>Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs</b>					
	Assay	min. 95%		1777.1000	1 kg	6
	Chloride (Cl)	max. 0.02%				
	Heavy Metals (as Pb)	max. 0.005%				
	Iron (Fe)	max. 0.002%				
	<b>Trace Impurities (in ppm):</b>					
	Arsenic (As)	max. 2				

## Sodium Tartrate Dihydrate

0317 'BAKER ANALYZED' / ACS

			PRODUCT	PACKING	CONT.	
			NO.		BOX	
▶ NaOOC(CHOH) <sub>2</sub> COONa.2H <sub>2</sub> O M = 230.08 g/mol CAS NO. 6106-24-7 EINECS 212-773-3 NC CODE 2918 13 00	<b>Exceeds ACS Specifications</b>					
	Assay	99.0-101.0%		0317.0250	250 g	
	Ammonium (NH <sub>4</sub> )	max. 0.002%		0317.1000	1 kg	
	Calcium (Ca)	max. 0.01%		0317.9050	50 kg	
	Insoluble Matter	max. 0.005%				
	Loss on Drying at 150°C	15.61-15.71%				
	pH of 5% Solution at 25°C	7.0-9.0				
	Sulfate (SO <sub>4</sub> )	max. 0.005%				
	<b>Trace Impurities (in ppm):</b>					
	Chloride (Cl)	max. 5				
	Heavy Metals (as Pb)	max. 5				
	Iron (Fe)	max. 5				
	Phosphate (PO <sub>4</sub> )	max. 5				
	This reagent is suitable for standardization of Karl Fischer Reagent as used for the determination of water.					

## Sodium Tetraborate

See Disodium Tetraborate Decahydrate

## Sodium Tetrahydroborate

See Sodium Borohydride

## Sodium Tetraphenylborate

1194 'BAKER ANALYZED' / ACS

			PRODUCT	PACKING	CONT.	
			NO.		BOX	
▶ NaB(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> M = 342.23 g/mol CAS NO. 143-66-8 EINECS 205-605-5 NC CODE 2931 00 95 R: 22 harmful	<b>Meets ACS Specifications</b>					
	Assay	min. 99.5%		1194.0025	25 g Glass	
	Clarity of Solution	passes test		1194.0100	100 g	
	Loss on Drying at 105°C	max. 0.5%				

## Sodium Tetraphenylboron

See Sodium Tetraphenylborate



## Sodium Tetroxiodate(VII)

'BAKER ANALYZED'

1192

▶ NaIO <sub>4</sub>		Assay	min. 99.8%	PRODUCT NO.	PACKING	CONT. BOX
M =	213.89 g/mol	Other Halogens (as Cl)	max. 0.01%	1192.0100	100 g	
CAS NO.	7790-28-5	Sulfate (SO <sub>4</sub> )	max. 0.005%			
EINECS	232-197-6	<b>Trace Impurities (in ppm):</b>				
NC CODE	2829 90 80	Manganese (Mn)	max. 1			
UN/ID NO.	1479					
ADR/RID	5.1 02					
IMDG	5.1/I					
R:	8					
S:	17					
	oxidizing					

## Sodium Thiocyanate

'BAKER ANALYZED' / ACS

0318

▶ NaSCN		<i>Exceeds ACS Specifications</i>		PRODUCT NO.	PACKING	CONT. BOX
M =	81.07 g/mol	Assay	min. 98.0%	0318.0500	500 g	
CAS NO.	540-72-7	Ammonium (NH <sub>4</sub> )	max. 0.002%	0318.7110	110 lbs	
EINECS	208-754-4	Carbonate (as Na <sub>2</sub> CO <sub>3</sub> )	max. 0.2%			
NC CODE	2838 00 00	Chloride (Cl)	max. 0.005%			
EC NO.	615 004 00 3	Insoluble Matter	max. 0.005%			
R:	20/21/22-32	Sulfate (SO <sub>4</sub> )	max. 0.01%			
S:	13	Sulfide (S)	max. 0.001%			
	Xn harmful	<b>Trace Impurities (in ppm):</b>				
		Heavy Metals (as Pb)	max. 5			
		Iron (Fe)	max. 2			

## Sodium Thiosulfate Anhydrous

'BAKER ANALYZED'

0320

▶ Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		Assay (by Iodometry)	min. 98.0%	PRODUCT NO.	PACKING	CONT. BOX
M =	158.11 g/mol	Calcium (Ca)	max. 0.01%	0320.0500	500 g	6
CAS NO.	7772-98-7	Heavy Metals (as Pb)	max. 0.001%	0320.9050	50 kg	
EINECS	231-867-5	Insoluble Matter	max. 0.01%			
NC CODE	2832 30 00	<b>Trace Impurities (in ppm):</b>				
		Sulfide (S)	max. 1			

## Sodium Thiosulfate Pentahydrate

'BAKER ANALYZED' / ACS

0319

▶ Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O		<i>Meets ACS Specifications</i>		PRODUCT NO.	PACKING	CONT. BOX
M =	248.18 g/mol	Assay	99.5-101.0%	0319.0500	500 g	6
CAS NO.	10102-17-7	Insoluble Matter	max. 0.005%	0319.1000	1 kg	6
EINECS	231-867-5	Nitrogen Compounds (as N)	max. 0.002%	0319.9050	50 kg	
NC CODE	2832 30 00	pH of 5% Solution at 25°C	6.0-8.4			
		Sulfate and Sulfite (as SO <sub>4</sub> )	max. 0.1%			
		Sulfide (S)	max. 1 ppm			

## Sodium Thiosulfate Pentahydrate

'BAKER'

1779

▶ Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O		Assay	99.0-101.0%	PRODUCT NO.	PACKING	CONT. BOX
M =	248.18 g/mol	Appearance of solution	passes test	1779.1000	1 kg	6
CAS NO.	10102-17-7	Calcium (Ca)	passes test	1779.5000	5 kg	
EINECS	231-867-5	Heavy Metals (as Pb)	max. 10 ppm	1779.9050	50 kg	
NC CODE	2832 30 00	Identification	passes test			
		pH	6.0-8.4			
		Sulfates and Sulfites	max. 0.2%			
		Sulfides	passes test			
		Water (H <sub>2</sub> O)	32.0-37.0%			
					Preserve in tight containers.	
					Stored in an airtight container.	

## Sodium Thiosulfate, 5-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



# Sodiu

## Sodium Thiosulfate

**7100** 1 mol/l / 'BAKER ANALYZED'

▶ Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
**M** = 158.11 g/mol  
**CAS NO.** 10102-17-7  
**EINECS** 231-867-5  
**NC CODE** 2832 30 00

Titer (mol/l) 0.995-1.005  
**Trace Impurities (in ppm):**  
 Heavy Metals (as Pb) max. 1  
 Sulfate and Sulfite (as SO<sub>4</sub>) max. 50

PRODUCT NO.	PACKING	CONT. BOX
7100.1000	1 l	6
7100.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Thiosulfate

**7101** 0.1 mol/l / 'BAKER ANALYZED'

▶ Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
**M** = 158.11 g/mol  
**CAS NO.** 1010-21-7  
**EINECS** 231-867-5  
**NC CODE** 2832 30 00

Titer (mol/l) 0.0997-0.1003  
**Trace Impurities (in ppm):**  
 Heavy Metals (as Pb) max. 1  
 Sulfate and Sulfite (as SO<sub>4</sub>) max. 50

PRODUCT NO.	PACKING	CONT. BOX
7101.1000	1 l	6
7101.5000	5 l Polycube	4
7101.9010	10 l Polycube	
7101.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
 Each lot of this product is standardized potentiometrically against NIST traceable reference standard.

## Sodium Thiosulfate

**4695** 0.1 mol/l / DILUT-IT

▶ Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
**M** = 158.11 g/mol  
**CAS NO.** 10102-17-7  
**EINECS** 231-867-5  
**NC CODE** 2832 30 00

PRODUCT NO.	PACKING	CONT. BOX
4695	1 amp.	6

*Volumetric Concentrate, for dilution to 1 l.*

## Sodium Thiosulfate

**4693** 0.01 mol/l / DILUT-IT

▶ Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
**M** = 158.11 g/mol  
**CAS NO.** 10102-17-7  
**EINECS** 231-867-5  
**NC CODE** 2832 30 00

PRODUCT NO.	PACKING	CONT. BOX
4693	1 amp.	6

*Volumetric Concentrate, for dilution to 1 l.*

## Sodium Tungstate Dihydrate

**1195** 'BAKER ANALYZED' / ACS

▶ Na<sub>2</sub>WO<sub>4</sub>·2H<sub>2</sub>O  
**M** = 329.86 g/mol  
**CAS NO.** 10213-10-2  
**EINECS** 236-743-4  
**NC CODE** 2841 80 00

**R:** 22  
 Xn  
 harmful

**Meets ACS Specifications**  
 Assay 99.0-101.0%  
 Chloride (Cl) max. 0.005%  
 Heavy Metals and Iron (as Pb) max. 0.001%  
 Insoluble Matter max. 0.01%  
 Molybdenum (Mo) max. 0.001%  
 Sulfate (SO<sub>4</sub>) max. 0.01%  
 Titrable Free Base max. 0.02 meq/g

PRODUCT NO.	PACKING	CONT. BOX
1195.0100	100 g	
1195.9050	50 kg	

## Sodium Tungstate Dihydrate

**0321** 'BAKER'

▶ Na<sub>2</sub>WO<sub>4</sub>·2H<sub>2</sub>O  
**M** = 329.86 g/mol  
**CAS NO.** 10213-10-2  
**EINECS** 236-743-4  
**NC CODE** 2841 80 00

**R:** 22  
 Xn  
 harmful

Assay min. 99.0%  
 Alkalinity (as Na<sub>2</sub>CO<sub>3</sub>) max. 0.2%  
 Arsenic (As) max. 0.002%  
 Chloride (Cl) max. 0.01%  
 Heavy Metals and Iron (as Pb) max. 0.001%  
 Insoluble Matter max. 0.02%  
 Molybdenum (Mo) max. 0.05%  
 pH of 5% Solution at 25°C 8.0-10.0  
 Sulfate (SO<sub>4</sub>) max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
0321.0500	500 g	
0321.9050	50 kg	

## Sodium Wolframate

See Sodium Tungstate Dihydrate

## Solid Phase Extraction

See for detailed information section Chromatography products, page 448

## D(-)-Sorbitol

'BAKER'

2039

			PRODUCT	PACKING	CONT.
			NO.		BOX
▶ HOCH <sub>2</sub> (CHOH) <sub>4</sub> CH <sub>2</sub> OH.H <sub>2</sub> O	Assay	98.0-101.0%	2039.1000	1 kg	
M = 200.19 g/mol	Appearance of solution	passes test			
CAS NO. 50-70-4	Chloride (Cl)	max. 50 ppm			
EINECS 200-061-5	Identification	passes test			
NC CODE 2905 44 91	Lead (Pb)	max. 0.5 ppm			
	Nickel (Ni)	max. 1 ppm			
	Reducing Sugars (as Glucose)	passes test			
	Residue after Ignition (as SO <sub>4</sub> )	max. 0.1%			
	Specific rotation	+ 4.0 - + 7.0			
	Sulfate (SO <sub>4</sub> )	max. 100 ppm			
	Water (H <sub>2</sub> O)	max. 1.5%			

## Sørensen buffer

HEMATOLOGY/HISTOLOGY

3716

	PRODUCT	PACKING	CONT.
	NO.		BOX
<i>Phosphate Buffer Concentrate (20x). For use in combination with staining solutions</i>	3716	100 ml HDPE x 10	

## Speedisk

See for detailed information section Chromatography products, page 448

## Spill Cleanup Products

See for detailed information section Safety, page 400

## Spill Kit Accessories: Cleanup Centre

4450

NC CODE	PRODUCT	PACKING	CONT.
	NO.		BOX
3822 00 00	4450	1 unit	
<i>Contains: Acid, Caustic and Solvent Spill Cleanup Kit plus a storage cabinet.</i>			

## Spill Kit Accessories: Safety equipment kit

4509

NC CODE	PRODUCT	PACKING	CONT.
	NO.		BOX
3824 90 95	4509	1 unit	

## Spill Kit Accessories: Storage Cabinet for 3 kits

4435

NC CODE	PRODUCT	PACKING	CONT.
	NO.		BOX
7326 90 97	4435	1 unit	

## Spill Kit Acids

4442

NC CODE	PRODUCT	PACKING	CONT.
	NO.		BOX
3822 00 00	4442	1 unit	
<i>Contains: 3.2 kg Neutrasorb, goggles, gloves, scoop, brush, waste bags, sponge.</i>			

# Spill

## Spill Kit Acids Neutrasorb

4510

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4510	3.2 kg	

## Spill Kit Acids Neutrasorb

4456

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4456.9045	45 kg	

## Spill Kit Acids TEAM Low Na<sup>+</sup>

4555-02

Liquid neutraliser for acid spills

NC CODE 3822 00 00

*Epecially recommended for use in clean rooms*

PRODUCT NO.	PACKING	CONT. BOX
4555-02	1 unit	

*Contains: 6 x 946 ml; 1x handsprayer.*

## Spill Kit Caustics

4441

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4441	1 unit	

*Contains: 1.2 kg Neutrasorb, goggles, gloves, scoop, brush, waste bags, sponge.*

## Spill Kit Caustics Neutrakit

4460

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4460	23 kg	

## Spill Kit Caustics Neutrakit

4512

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4512	1.2 kg	

## Spill Kit Mercury

4439

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4439	1 unit	

*Contains: 0.9 kg Resisorb; 250 g Cinnasorb Base; 20 g Cinnasorb Activator; gloves; scoop; aspirator; waste bottle and bags; sponge.*

## Spill Kit Mercury Resisorb

4455

For Mercury vapor

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4455.0900E	900 g	
4455.7025E	11.3 kg	

A  
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D  
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F  
G  
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I  
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S  
T  
U  
V  
W  
X  
Y  
Z

### Spill Kit Mercury: Mercury Sponge

4444

NC CODE 7323 10 00

PRODUCT NO.	PACKING	CONT. BOX
4444	1 unit	

Contains: activator for the absorption of up to 10 g of spilled mercury.

### Spill Kit Solvents

4437

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4437	1 unit	

Contains: 1.1 kg Solusorb; goggles; gloves; scoop; brush; waste bags; sponge.

### Spill Kit Solvents Solusorb

4458

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4458.7040	18 kg	

### Spill Kit Solvents Solusorb

4511

NC CODE 3822 00 00

PRODUCT NO.	PACKING	CONT. BOX
4511	1.1 kg	

### Standards for Trace Analysis

See for detailed information Standards for Trace Analysis, page 21

### Stannous Chloride Dihydrate

See Tin(II) Chloride Dihydrate

### Starch

'BAKER ANALYZED' / Soluble potato for iodometry / ACS

0327

CAS NO. 9005-25-8  
EINECS 232-679-6  
NC CODE 3505 10 90

Meets ACS Specifications	
pH of 2% Solution at 25°C	5.0-7.0
Residue after Ignition	max. 0.4%
Sensitivity	passes test
Solubility	passes test

PRODUCT NO.	PACKING	CONT. BOX
0327.0250	250 g	6
0327.2500	2.5 kg	

### Starch (Lintner)

soluble / 'BAKER ANALYZED'

1130

CAS NO. 9005-25-8  
EINECS 232-686-4  
NC CODE 3505 10 90

Apparent Viscosity, 1 hour	max. 2.0
Apparent Viscosity, 24 hours	max. 4.0
Dextrin	passes test
Loss on Drying	max. 12%
pH of 2% Solution at 25°C	4.5-7.0
Reducing Substances (as maltose)	max. 0.75%
Residue after Ignition	max. 0.5%
Solubility	passes test

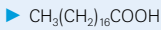
PRODUCT NO.	PACKING	CONT. BOX
1130.0500	500 g	

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U  
V  
W  
X  
Y  
Z

# Stear

## Stearic Acid

0329 'BAKER'



**M** = 284.49 g/mol  
**CAS NO.** 57-11-4  
**EINECS** 200-313-4  
**NC CODE** 2915 70 25

Congealing Temperature	min. 54°C
Heavy Metals (as Pb)	max. 0.001%
Iodine Value	max. 4
Mineral Acids	passes test
Neutral fat or Paraffin	passes test
Residue on Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
0329.1000	1 kg	

## ▶ Stearic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ▶ Stearic Acid, 92%

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Strontium 1000 µg/ml

5781 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Sr

**M** = 87.62 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



### Certificate Provided Reporting Actual Lot Analysis

Strontium (Sr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5781.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Strontium 1000 µg/ml

6942 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Sr

**M** = 87.62 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



Strontium (Sr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6942.0100	100 ml	
6942.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Strontium 1000 µg/ml

6823 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Sr

**M** = 87.62 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



Strontium (Sr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6823.0100	100 ml	
6823.0500	500 ml	

Strontium chloride in nitric acid 0.5 mol/l.

## Strontium 10000 µg/ml

5747 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Sr

**M** = 87.62 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



### Certificate Provided Reporting Actual Lot Analysis

Strontium (Sr) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5747.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

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V  
W  
X  
Y  
Z

## Strontium Chloride Hexahydrate

'BAKER ANALYZED' / ACS

0331

▶ SrCl<sub>2</sub>·6H<sub>2</sub>O

**M** = 266.62 g/mol  
**CAS NO.** 10025-70-4  
**EINECS** 233-971-6  
**NC CODE** 2827 39 90  
**R:** 20/21/22  
**S:** 36-39



### Meets ACS Specifications

Assay	99.0-103.0%
Barium (Ba)	max. 0.05%
Calcium (Ca)	max. 0.05%
Insoluble Matter	max. 0.005%
pH of 5% Solution at 25°C	5.0-7.0
Sulfate (SO <sub>4</sub> )	max. 0.001%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5
Magnesium (Mg)	max. 2

PRODUCT NO.	PACKING	CONT. BOX
0331.0500	500 g	
0331.9050	50 kg	

## Styrene

'BAKER'

8133

▶ C<sub>8</sub>H<sub>8</sub>CH:CH<sub>2</sub>

**M** = 104.15 g/mol  
**1 l** = 0.91 kg  
**FLASHPOINT** 32 °C  
**CAS NO.** 100-42-5  
**EINECS** 202-851-5  
**NC CODE** 2902 50 00  
**EC NO.** 601 026 00 0  
**UN/ID NO.** 2055  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20-36/38  
**S:** 23



Color (APHA)	max. 10
Density (g/ml) at 20°C	0.905-0.907

PRODUCT NO.	PACKING	CONT. BOX
8133.0100	100 ml	
8133.1000	1 l	

Stabilized with *tert*-Butylpyrocatechol.

## Succinic Acid

'BAKER ANALYZED' / ACS

0333

▶ (CH<sub>2</sub>COOH)<sub>2</sub>

**M** = 118.09 g/mol  
**CAS NO.** 110-15-6  
**EINECS** 203-740-4  
**NC CODE** 2917 19 90  
**R:** 36  
**S:** 26



### Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Insoluble Matter	max. 0.01%
Melting Point	185.0-191.0°C
Nitrogen Compounds (as N)	max. 0.001%
Phosphate (PO <sub>4</sub> )	max. 0.001%
Residue after Ignition	max. 0.02%
Sulfate (SO <sub>4</sub> )	max. 0.003%

### Trace Impurities (in ppm):

Heavy Metals (as Pb)	max. 5
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0333.0250	250 g	

## Succinic Acid Disodium Salt

See Sodium Succinate Hexahydrate

MSDS (Material Safety Data Sheets)  
 are available in 16 languages  
 at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Sucrose

4890 ULTREX Ultrapure Reagent

▶  $C_{12}H_{22}O_{11}$   
**M** = 342.30 g/mol  
**CAS NO.** 57-50-1  
**EINECS** 200-334-9  
**NC CODE** 1701 99 10

### Certificate Provided Reporting Actual Lot Analysis

#### Actual Analysis Lot.No. L37479

Ash (sulfated)	< 0.05%
Chloride (Cl)	0.003
Homogeneity (by GLC)	passes test
Homogeneity (by TLC)	no extraneous spots
Invert Sugar	< 0.05%
Iron (Fe)	< 1
Loss on Drying at 105°C	0.02%
Particulate Matter	0.003%
Specific Rotation $[\alpha]_D^{20}$	66.4°
Sulfate and Sulfite (as $SO_4$ )	0.005
Titration Acid ( $\mu\text{eq/g}$ )	0.8

#### Metallic Impurities in parts per million ( $\mu\text{g/g}$ ):

Aluminium (Al)	< 1
Bismuth (Bi)	< 1
Cadmium (Cd)	< 10
Calcium (Ca)	< 1
Chromium (Cr)	< 1
Cobalt (Co)	< 10
Copper (Cu)	< 1
Lead (Pb)	< 10
Magnesium (Mg)	< 0.5
Manganese (Mn)	< 10
Mercury (Hg)	< 0.0001
Molybdenum (Mo)	< 1
Nickel (Ni)	< 1
Silver (Ag)	< 0.5
Sodium (Na)	< 10
Tin (Sn)	< 10
Titanium (Ti)	< 1
Vanadium (V)	< 1
Zinc (Zn)	< 10

#### Non-Metallic Impurities in parts per million ( $\mu\text{g/g}$ ):

Arsenic (As)	< 0.01
Boron (B)	< 0.5
Nitrogen Compounds (as N)	< 2
Silicon (Si)	6

PRODUCT NO.	PACKING	CONT. BOX
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4890.0100	100 g Glass	
4890.0500	500 g Glass	

## Sucrose

4097 'BAKER ULTRAPURE BIOREAGENT'

▶  $C_{12}H_{22}O_{11}$   
**M** = 342.30 g/mol  
**CAS NO.** 57-50-1  
**EINECS** 200-334-9  
**NC CODE** 1701 99 10

### For Density Gradient Centrifugation

Assay (by HPLC)	min. 99.9%
Clarity and Color of Solution	passes test
Clarity of Solution	passes test
DNase Activity	none detected
Glucose	max. 0.1%
Protease Activity	none detected
RNase Activity	none detected

#### Trace Impurities (in ppm):

Total of Copper (Cu), Iron (Fe) and Lead (Pb)	max. 5
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PRODUCT NO.	PACKING	CONT. BOX
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4097.1000	1 kg	
4097.5000	5 kg	

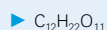
Find our up-to-date Product Literature  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)



## Sucrose

'BAKER ANALYZED' / ACS

0334



**M** = 342.30 g/mol  
**CAS NO.** 57-50-1  
**EINECS** 200-334-9  
**NC CODE** 1701 99 10

### Meets ACS Specifications

Chloride (Cl)	max. 0.005%
Insoluble Matter	max. 0.005%
Invert Sugar	max. 0.05%
Iron (Fe)	max. 5 ppm
Loss on Drying at 105°C	max. 0.03%
Residue after Ignition	max. 0.01%
Specific Rotation $[\alpha]_D^{20}$	+66.3° - +66.8°
Sulfate and Sulfite (as $SO_4$ )	max. 0.005%
Titration Acid (meq/g)	max. 0.0008
<b>Trace Impurities (in ppm):</b>	
Heavy Metals (as Pb)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
0334.1000	1 kg	6
0334.5000	5 kg	
0334.9050	50 kg	

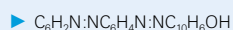
## Sucrose

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sudan III

'BAKER'

0707



**M** = 352.40 g/mol  
**CAS NO.** 85-86-9  
**EINECS** 201-638-4  
**NC CODE** 2927 00 00

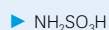
PRODUCT NO.	PACKING	CONT. BOX
0707.0025	25 g Glass	

C.I. 26100.

## Sulfamic Acid

'BAKER ANALYZED'

1828



**M** = 97.09 g/mol  
**CAS NO.** 5329-14-6  
**EINECS** 226-218-8  
**NC CODE** 2811 19 80  
**EC NO.** 16 026 00 0  
**UN/ID NO.** 2967  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 36/38-52/53  
**S:** 26-28-61



Assay	min. 99%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.001%
Insoluble Matter	max. 0.005%
Residue after Ignition	max. 0.01%
Sulfate ( $SO_4$ )	max. 0.02%
<b>Trace Impurities (in ppm):</b>	
Iron (Fe)	max. 5

PRODUCT NO.	PACKING	CONT. BOX
1828.0250	250 g	
1828.1000	1 kg	
1828.5000	5 kg	

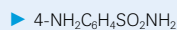
## Sulfamic Acid, Ammonium Salt

See Ammonium Sulfamate

## Sulfanilamide

'BAKER'

0709



**M** = 172.21 g/mol  
**CAS NO.** 63-74-1  
**EINECS** 200-563-4  
**NC CODE** 2935 00 90

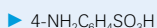
Melting Point 164-166°C

PRODUCT NO.	PACKING	CONT. BOX
0709.1000	1 kg	

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## Sulfanilic Acid Anhydrous

1197 'BAKER ANALYZED' / ACS



**M** = 173.19 g/mol  
**CAS NO.** 121-57-3  
**EINECS** 204-482-5  
**NC CODE** 2921 42 10  
**EC NO.** 612 014 00 0  
**R:** 36/38-43  
**S:** 24-37



### Exceeds ACS Specifications

Assay	98.0-102.0%
Chloride (Cl)	max. 0.002%
Insoluble in Sodium Carbonate Solution	max. 0.01%
Residue after Ignition	max. 0.01%
Suitability for Nitrogen Dioxide Determination (ASTM D 1607)	passes test
Sulfate (SO <sub>4</sub> )	max. 0.005%

### Trace Impurities (in ppm):

Nitrite (NO <sub>2</sub> )	max. 0.5
----------------------------	----------

PRODUCT NO.	PACKING	CONT. BOX
1197.0100	100 g	

## Sulfosalicylic Acid Dihydrate

1198 'BAKER ANALYZED' / ACS



**M** = 254.22 g/mol  
**CAS NO.** 5965-83-3  
**EINECS** 202-555-6  
**NC CODE** 2918 29 10  
**UN/ID NO.** 3261  
**ADR/RID** 8 C4  
**IMDG** 8/III  
**R:** 36/38  
**S:** 26



### Meets ACS Specifications

Assay (acidimetric)	99.0-101.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.02%
Iron (Fe)	max. 0.001%
Residue after Ignition	max. 0.1%
Salicylic Acid (HOC <sub>6</sub> H <sub>4</sub> COOH)	max. 0.04%
Sulfate (SO <sub>4</sub> )	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
1198.0100	100 g	
1198.1000	1 kg	

## Sulfur

0335 Precipitated / 'BAKER'



**M** = 32.06 g/mol  
**CAS NO.** 7704-34-9  
**EINECS** 231-722-6  
**NC CODE** 2802 00 00  
**UN/ID NO.** 1350  
**ADR/RID** 4.1 F3  
**IMDG** 4.1/III

Appearance	passes test
Assay (anhydrous basis)	99.5 - 100.5%
Identification	passes test
Other forms of sulfur	passes test
Reaction	passes test
Residue on Ignition	max. 0.3%
Water (H <sub>2</sub> O)	max. 0.5%

PRODUCT NO.	PACKING	CONT. BOX
0335.1000	1 kg	6

## Sulfur

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

*Use J.T.Baker Ultrex II and BAKER INSTRA-ANALYZED acids for low level trace element analysis.*

*See chapter 3 of this catalogue for more details.*

## Sulfuric Acid

95% / ULTREX II Ultrapure Reagent

6902

▶ H<sub>2</sub>SO<sub>4</sub>**M** = 98.08 g/mol**1 l** = 1.84 kg**CAS NO.** 7664-93-9**EINECS** 231-639-5**NC CODE** 2807 00 10**EC NO.** 16 020 00 8**UN/ID NO.** 1830**ADR/RID** 8 C1**IMDG** 8/II**R:** 35**S:** 26-30-45

corrosive

**Certificate Provided Reporting Actual Lot Analysis**

Assay 93 -98% (w/w)

**Trace Impurities (in ppt) (µg/g):**

Aluminium (Al)	max. 50
Antimony (Sb)	max. 50
Arsenic (As)	max. 500
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 100
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 10
Dysprosium (Dy)	max. 10
Erbium (Er)	max. 10
Europium (Eu)	max. 10
Gadolinium (Gd)	max. 10
Gallium (Ga)	max. 10
Germanium (Ge)	max. 100
Hafnium (Hf)	max. 10
Holmium (Ho)	max. 10
Indium (In)	max. 10
Iron (Fe)	max. 50
Lanthanum (La)	max. 10
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 10
Magnesium (Mg)	max. 50
Manganese (Mn)	max. 10
Mercury (Hg)	max. 100
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 10
Nickel (Ni)	max. 50
Niobium (Nb)	max. 10
Palladium (Pd)	act. value reported
Platinum (Pt)	act. value reported
Potassium (K)	max. 50
Praseodymium (Pr)	max. 10

Rhodium (Rh)	max. 50
Rubidium (Rb)	max. 10
Samarium (Sm)	max. 10
Scandium (Sc)	max. 10
Selenium (Se)	max. 500
Silver (Ag)	max. 50
Sodium (Na)	max. 50
Strontium (Sr)	max. 10
Tantalum (Ta)	act. value reported
Tellurium (Te)	max. 100
Terbium (Tb)	max. 10
Thallium (Tl)	max. 10
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 50
Titanium (Ti)	max. 50
Tungsten (W)	max. 10
Uranium (U)	max. 10
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 10
Yttrium (Y)	max. 10
Zinc (Zn)	max. 50
Zirconium (Zr)	max. 10

PRODUCT NO.	PACKING	CONT. BOX
6902.0500	500 ml Fluoropolymer, pre-leached	
6902.1000	1 l Fluoropolymer, pre-leached	

*Calibrate and standardise your analytical methods and equipment with J.T.Baker Volumetric and Buffer solutions.*

*Refer to the Analytical applications section of this catalogue for more details.*

## Sulfuric Acid

6163 95-98% / 'BAKER INSTRA-ANALYZED' / for Trace Metal Analysis

▶ H<sub>2</sub>SO<sub>4</sub>

**M** = 98.08 g/mol

**1 l** = 1.84 kg

**CAS NO.** 7664-93-9

**EINECS** 231-639-5

**NC CODE** 2807 00 10

**EC NO.** 16 020 00 8

**UN/ID NO.** 1830

**ADR/RID** 8 C1

**IMDG** 8/II

**R:** 35

**S:** 26-30-45



corrosive

### Certificate Provided Reports Actual Lot Analysis

#### (About 36.0 N)

Assay (by acid-base titration) 95.0-98.0%

Color (APHA) max. 10

#### Trace Impurities (in ppm):

Aluminium (Al) max. 0.03

Ammonium (NH<sub>4</sub>) max. 1

Arsenic and Antimony (as As) max. 0.004

Barium (Ba) max. 0.02

Beryllium (Be) max. 0.01

Bismuth (Bi) max. 0.05

Boron (B) max. 0.01

Cadmium (Cd) max. 0.002

Calcium (Ca) max. 0.05

Chloride (Cl) max. 0.1

Chromium (Cr) max. 0.006

Cobalt (Co) max. 0.0005

Copper (Cu) max. 0.001

Gallium (Ga) max. 0.02

Germanium (Ge) max. 0.10

Gold (Au) max. 0.05

Heavy Metals (as Pb) max. 0.5

Iron (Fe) max. 0.05

Lead (Pb) max. 0.0005

Lithium (Li) max. 0.02

Magnesium (Mg) max. 0.007

Manganese (Mn) max. 0.001

Mercury (Hg) max. 0.0005

Molybdenum (Mo) max. 0.05

Nickel (Ni) max. 0.002

Niobium (Nb) max. 0.05

Nitrate (NO<sub>3</sub>) max. 0.2

Phosphate (PO<sub>4</sub>) max. 0.5

Potassium (K) max. 0.5

Residue after Ignition max. 3

Selenium (Se) value on label

Silicon (Si) max. 0.1

Silver (Ag) max. 0.001

Sodium (Na) max. 0.5

Strontium (Sr) 0.005

Tantalum (Ta) 0.05

Thallium (Tl) max. 0.08

Tin (Sn) 0.005

Titanium (Ti) max. 0.01

Vanadium (V) max. 0.01

Zinc (Zn) max. 0.005

Zirconium (Zr) max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
6163.0500	500 ml	6
6163.2500	2.5 l	4

*The J.T.Baker CYCLE-TAINER  
High Purity Solvent Delivery System,  
preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

## Sulfuric Acid

95-98% (max. 5 ppb Hg) / 'BAKER ANALYZED' / ACS

6027

▶ H<sub>2</sub>SO<sub>4</sub>**M** = 98.08 g/mol**1 l** = 1.84 kg**CAS NO.** 7664-93-9**EINECS** 231-639-5**NC CODE** 2807 00 10**EC NO.** 16 020 00 8**UN/ID NO.** 1830**ADR/RID** 8 C1**IMDG** 8/II**R:** 35**S:** 26-30-45

corrosive

**Exceeds ACS Specifications**

Assay	95.0-98.0%
Ammonium (NH <sub>4</sub> )	max. 1 ppm
Appearance	passes test
Color (APHA)	max. 10
Mercury (Hg)	max. 5 ppb
Residue after Ignition	max. 4 ppm
Substances Reducing KMnO <sub>4</sub> (as SO <sub>2</sub> )	max. 2 ppm

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.01
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chloride (Cl)	max. 0.1
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Heavy Metals (as Pb)	max. 1
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Nitrate (NO <sub>3</sub> )	max. 0.5
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6027.1000	1 l	
6027.2500	2.5 l	4

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*

## Sulfuric Acid

6057 95-97% / 'BAKER ANALYZED'

▶ H<sub>2</sub>SO<sub>4</sub>  
**M** = 98.08 g/mol  
**1 l** = 1.84 kg  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10  
**EC NO.** 16 020 00 8  
**UN/ID NO.** 1830  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 35  
**S:** 26-30-45



corrosive

Assay	95-97%
Ammonium (NH <sub>4</sub> )	max. 1 ppm
Color (APHA)	max. 10
Heavy Metals (as Pb)	max. 5 ppm
Nitrate (NO <sub>3</sub> )	max. 1 ppm
Residue after Ignition	max. 5 ppm
Substances Reducing KMnO <sub>4</sub> (as SO <sub>2</sub> )	max. 5 ppm

### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.05
Arsenic (As)	max. 0.05
Barium (Ba)	max. 0.02
Beryllium (Be)	max. 0.01
Cadmium (Cd)	max. 0.02
Calcium (Ca)	max. 0.5
Chloride (Cl)	max. 0.5
Chromium (Cr)	max. 0.1
Cobalt (Co)	max. 0.01
Copper (Cu)	max. 0.01
Germanium (Ge)	max. 0.05
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.05
Lithium (Li)	max. 0.01
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.01
Molybdenum (Mo)	max. 0.02
Nickel (Ni)	max. 0.05
Potassium (K)	max. 0.1
Silver (Ag)	max. 0.01
Sodium (Na)	max. 0.5
Strontium (Sr)	max. 0.01
Thallium (Tl)	max. 0.05
Titanium (Ti)	max. 0.1
Vanadium (V)	max. 0.01
Zinc (Zn)	max. 0.05
Zirconium (Zr)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
6057.1000	1 l	6
6057.2500	2.5 l	4
6057.2500PE	2.5 l HDPE	4
6057.9025	25 l	
6057.9200	200 l	

## Sulfuric Acid 96% CMOS, Finyte, Finyte-1, Ultryte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Sulfuric Acid

6147 90-91% / 'BAKER ANALYZED' / For fat determination according to Gerber

▶ H<sub>2</sub>SO<sub>4</sub>  
**M** = 98.08 g/mol  
**1 l** = 1.82 kg  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10  
**EC NO.** 16 020 00 8  
**UN/ID NO.** 1830  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R:** 35  
**S:** 26-30-45



corrosive


Assay (acidimetric)	90-91%
Density (g/ml)	1.815-1.821
Nitrate (NO <sub>3</sub> )	max. 0.2 ppm
Suitability for Gerber test	passes test

PRODUCT NO.	PACKING	CONT. BOX
6147.2500	2.5 l	4
6147.9025	25 l	

## Sulfuric Acid

5 mol/l / 'BAKER ANALYZED'


7242

▶ H <sub>2</sub> SO <sub>4</sub>		Titer (mol/l)	4.9-5.1	PRODUCT NO.	PACKING	CONT. BOX
M =	98.08 g/mol			7242.1000	1 l	6
CAS NO.	7664-93-9					
EINECS	231-639-5					
NC CODE	2807 00 10					
UN/ID NO.	2796					
ADR/RID	8 C1					
IMDG	8/II					
R:	35					
S:	26-30-36/37/39-45					
 C corrosive						
Volumetric Solution, ready for use.						

## Sulfuric Acid

4 mol/l / 'BAKER ANALYZED'


7610

▶ H <sub>2</sub> SO <sub>4</sub>		Titer (mol/l)	3.95-4.05	PRODUCT NO.	PACKING	CONT. BOX
M =	98.08 g/mol			7610.1000	1 l	6
CAS NO.	7664-93-9					
EINECS	231-639-5					
NC CODE	2807 00 10					
EC NO.	16 020 00 8					
UN/ID NO.	2796					
ADR/RID	8 C1					
IMDG	8/II					
R:	35					
S:	26-36/37/39-45					
 C corrosive						
Volumetric Solution, ready for use.						

## Sulfuric Acid

2.6 mol/l / 'BAKER ANALYZED'


7471

▶ H <sub>2</sub> SO <sub>4</sub>		Titer (mol/l)	2.55-2.65	PRODUCT NO.	PACKING	CONT. BOX
M =	98.08 g/mol			7471.9010	10 l Polycube	
EINECS	231-639-5			7471.9025	25 l	
NC CODE	2807 00 10			7471.9200	200 l	
UN/ID NO.	2796					
ADR/RID	8 C1					
IMDG	8/II					
R:	35					
S:	26-30-36/37/39-45					
 C corrosive						
Volumetric Solution, ready for use. Each lot of this product is standardized potentiometrically against NIST traceable reference standard.						

## Sulfuric Acid

2 mol/l / 'BAKER ANALYZED'

7624

▶ H <sub>2</sub> SO <sub>4</sub>		Titer (mol/l)	1.99 - 2.01	PRODUCT NO.	PACKING	CONT. BOX
CAS NO.	7664-93-9			7624.5000	5 l	
EINECS	231-639-5			7624.9010	10 l Polycube	4
NC CODE	2807 00 10					
UN/ID NO.	2796					
ADR/RID	8 C1					
IMDG	8/II					
R:	35					
S:	26-30-36/37/39-45					
 C corrosive						
Volumetric Solution, ready for use.						



# Safety

## J.T.Baker Spill Clean-up Products

Spills and hazardous waste, such as acids and flammable solvents, are becoming a bigger concern to all users of chemicals. Those are also the most hazardous to handle and spills of these products can lead to fire, explosion, burns and exposure to toxic substances. It is self-evident to all users that it is necessary to be prepared for accidental chemical spills.

The J.T.Baker SAFT-Spill Kits do not just absorb; they also neutralise the hazard or reduce the flammable or toxic vapours. We have added in other features for your safety and convenience.

Besides the SAFT-Spill Kits for laboratory use, products for larger spills are also available.

### *Built-in excellence*

HDPE bottle

Colour coded

Tamper-evident carton

Step-by-step instructions

### *Making life simpler*

Easy-grip and easy-pour

Maximum safety

Guarantees unused packaging

Trouble-free working



## Safety products we offer

### Spill clean-up products for laboratory use

Code	Description
4450	Spill Cleanup Centre (contains an Acid, Caustic and Solvent Spill Cleanup Kit plus a storage cabinet)
4442	Acid Spill Cleanup Kit (contains 3.2 kg Neutrasorb)
4441	Caustic Spill Cleanup Kit (contains 1.2 kg Neutrakit)
4437	Solvent Spill Cleanup Kit (contains 1.1 kg Solusorb)
4439	Mercury Spill Cleanup Kit (contains 0.9 kg Resisorb, 250 g Cinnasorb Base, 20 g Cinnasorb Activator)
4435	Storage Cabinet for 3 kits

### Speciality safety products

Code	Description
4444	Mercury Sponge with activator for the absorption of up to 10 g of spilled mercury

### Spill clean-up products for larger spills

Code	Description
4510	1 box Neutrasorb of 3.2 kg for Acids
4512	1 box Neutrakit of 1.2 kg for Caustics
4511	1 box Solusorb of 1.1 kg for Solvents
4455.0900	1 box Resisorb of 900 g for Mercury Vapour
4455.7025	1 box Resisorb of 11.3 kg for Mercury Vapour
4509	Safety equipment kit

### Spill clean-up products in bulk containers for pilot plants or warehouse

Code	Description
4456.9045	45 kg Neutrasorb for Acids, in fibre drum with scoop
4460	23 kg Neutrakit for Caustics, in fibre drum with scoop
4458.7040	18 kg Solusorb for Solvents, in fibre drum with scoop

## Cleaning capacity Spill clean-up products

### *Neutrasorb for Acids, 3.2 kg*

Acetic Acid (98%)	0.47 L
Hydrochloric Acid (38%)	1.94 L
Nitric Acid (70%)	1.51 L
Phosphoric Acid (87%)	0.47 L
Sulphuric Acid (98%)	0.66 L

### *Neutrakit for Caustics, 1.2 kg*

Ammonium Hydroxide (56%)	0.56 L
Potassium Hydroxide (45%)	0.75 L
Sodium Hydroxide (50%)	0.47 L

### *Solusorb for Solvents, 1.1 kg*

Flammable solvents (Toluene, Ether etc.)	0.38 L
Toxic and Noxious liquids (Chloroform, Pyridine, THF, etc)	0.38 L
Halogens-Corrosive hazards (Bromine, Iodine, etc.)	0.45 kg

## Sulfuric Acid

7102 0.5 mol/l 1N / 'BAKER ANALYZED'

▶ H<sub>2</sub>SO<sub>4</sub>

**M** = 98.08 g/mol  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10

Titer (N)	0.997-1.003
<b>Trace Impurities (in ppm):</b>	
Chloride (Cl)	max. 1
Heavy Metals (as Pb)	max. 0.3
Iron (Fe)	max. 0.5
Phosphate (PO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7102.1000	1 l	6
7102.9010	10 l Polycube	
7102.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST tracable reference standard).

## Sulfuric Acid

7110 0.25 mol/l 0.5N / 'BAKER ANALYZED'

▶ H<sub>2</sub>SO<sub>4</sub>

**M** = 98.08 g/mol  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10

Titer (N)	0.4975-0.5025
<b>Trace Impurities (in ppm):</b>	
Chloride (Cl)	max. 1
Heavy Metals (as Pb)	max. 0.3
Iron (Fe)	max. 0.5
Phosphate (PO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7110.1000	1 l	6
7110.9010	10 l Polycube	

*Volumetric Solution, ready for use.*  
Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST tracable reference standard).

## Sulfuric Acid

7638 0.13 mol/l / 'BAKER ANALYZED'

▶ H<sub>2</sub>SO<sub>4</sub>

**1 l** = 1.00 kg  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10

Titer (mol/l)	0.129 - 0.131
---------------	---------------

PRODUCT NO.	PACKING	CONT. BOX
7638.9010	10 l Polycube	

*Volumetric Solution, ready for use.*

## Sulfuric Acid

7215 0.1 mol/l 0.2 N / 'BAKER ANALYZED'

▶ H<sub>2</sub>SO<sub>4</sub>

**M** = 98.08 g/mol  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10

Titer (N)	0.199-0.201
-----------	-------------

PRODUCT NO.	PACKING	CONT. BOX
7215.9010	10 l Polycube	4

*Volumetric Solution, ready for use.*  
Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST tracable reference standard).

## Sulfuric Acid

7103 0.05 mol/l 0.1N / 'BAKER ANALYZED'

▶ H<sub>2</sub>SO<sub>4</sub>

**M** = 98.08 g/mol  
**CAS NO.** 7664-93-9  
**EINECS** 231-639-5  
**NC CODE** 2807 00 10

Titer (N)	0.0997-0.1003
<b>Trace Impurities (in ppm):</b>	
Chloride (Cl)	max. 1
Heavy Metals (as Pb)	max. 0.3
Iron (Fe)	max. 0.5
Phosphate (PO <sub>4</sub> )	max. 1

PRODUCT NO.	PACKING	CONT. BOX
7103.1000	1 l	6
7103.9010	10 l Polycube	
7103.9020	20 l Polycube	

*Volumetric Solution, ready for use.*  
Each lot of this product is standardized potentiometrically against Sodium Carbonate (NIST tracable reference standard).

## Sulfuric Acid

2.5 mol/l / DILUT-IT

4701

▶ H<sub>2</sub>SO<sub>4</sub>

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 10

EC NO. 16 020 00 8

UN/ID NO. 1830

ADR/RID 8 C1

IMDG 8/I

R: 35

S: 26-30-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4701	500 ml Sealed Bottle	

Volumetric Concentrate, for dilution to 1 l.

## Sulfuric Acid

0.5 mol/l / DILUT-IT

4700

▶ H<sub>2</sub>SO<sub>4</sub>

M = 98.08 g/mol

1 l = 1.29 kg

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 10

EC NO. 16 020 00 8

UN/ID NO. 2796

ADR/RID 8 C1

IMDG 8/II

R: 35

S: 26-30-36/37/39-45



corrosive

PRODUCT NO.	PACKING	CONT. BOX
4700	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sulfuric Acid

0.05 mol/l / DILUT-IT

4699

▶ H<sub>2</sub>SO<sub>4</sub>

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 10

EC NO. 16 020 01 5

UN/ID NO. 2796

ADR/RID 8 C1

IMDG 8/II

R: 36/38

S: 26



irritant

PRODUCT NO.	PACKING	CONT. BOX
4699	1 amp.	6

Volumetric Concentrate, for dilution to 1 l.

## Sulfuric Acid

0.01 mol/l / DILUT-IT

4704

▶ H<sub>2</sub>SO<sub>4</sub>

M = 98.08 g/mol

CAS NO. 7664-93-9

EINECS 231-639-5

NC CODE 2807 00 10

EC NO. 16 020 01 5

PRODUCT NO.	PACKING	CONT. BOX
4704	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Sulfuric Acid

4869 0.005 mol/l 0.01N / DILUT-IT

NC CODE 2807 00 10

PRODUCT NO.	PACKING	CONT. BOX
4869	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Sulfuric Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sulfuric Acid Solutions

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Sulfurous Acid

6050 (solution of SO<sub>2</sub> in water) / 'BAKER ANALYZED' / ACS

▶ H<sub>2</sub>SO<sub>3</sub>

M = 82.08 g/mol

1 l = 1.03 kg

CAS NO. 7782-99-2

NC CODE 2811 19 80

UN/ID NO. 1833

ADR/RID 8 C1

IMDG 8/II

R: 20-34

S: 26-36/37/39-45



corrosive

Meets ACS Specifications. Meets Reagent

Specifications for testing USP/NF monographs

Assay (as SO<sub>2</sub>) (by iodometry) 6.0 - 9.0%

Residue after Ignition max. 0.005%

Trace Impurities (in ppm):

Chloride (Cl) max. 5

Heavy Metals (as Pb) max. 2

Iron (Fe) max. 5

PRODUCT NO.	PACKING	CONT. BOX
6050.0500	500 ml Glass	

## Talc

0339 Powder / 'BAKER'

CAS NO. 14807-96-6

EINECS 238-877-9

NC CODE 2526 20 00

Loss on drying (at 180°C) max. 1.0%

Organic Substances passes test

PRODUCT NO.	PACKING	CONT. BOX
0339.2500	2.5 kg	

## Talc

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Tannic Acid

See Tannin

## Tannic Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Tannin

1199 'BAKER ANALYZED'

▶ C<sub>76</sub>H<sub>52</sub>O<sub>46</sub>

M = 1701.23 g/mol

CAS NO. 1401-55-4

EINECS 215-753-2

NC CODE 3201 90 90

Loss on Drying at 100°C max. 12%

Residue after Ignition max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
1199.0250	250 g	

*Innovation is principal to our business.*

## Tantalum 1000 µg/ml

(Matrix: H<sub>2</sub>O plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5782

▶ Ta

**M** = 180.95 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1790  
**ADR/RID** 8 CT1  
**IMDG** 8/II  
**R:** 20/21/22-36  
**S:** 26-36/37



harmful

### Certificate Provided Reporting Actual Lot Analysis

Tantalum (Ta)	998-1002 µg/ml
---------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
5782.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

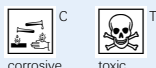
## Tantalum 10000 µg/ml

(Matrix: 1% hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5748

▶ Ta

**M** = 180.95 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1790  
**ADR/RID** 8 CT1  
**IMDG** 8/II  
**R:** 23/24/25-34  
**S:** 20-26-28-36/37/39-4-45-9



corrosive

toxic

### Certificate Provided Reporting Actual Lot Analysis

Tantalum (Ta)	9980-10020 µg/ml
---------------	------------------

PRODUCT NO.	PACKING	CONT. BOX
5748.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## L(+)-Tartaric Acid

'BAKER ANALYZED' / ACS

0340

▶ HOOC(CHOH)<sub>2</sub>COOH

**M** = 150.09 g/mol  
**CAS NO.** 87-69-4  
**EINECS** 201-766-0  
**NC CODE** 2918 12 00  
**R:** 36  
**S:** 24/25



irritant

### Meets ACS Specifications

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Oxalate (C <sub>2</sub> O <sub>4</sub> )	passes test
Phosphate (PO <sub>4</sub> )	max. 0.001%
Residue after Ignition	max. 0.02%
Sulfur Compounds (as S)	max. 0.002%

### Trace Impurities (in ppm):

Iron (Fe)	max. 5
-----------	--------

PRODUCT NO.	PACKING	CONT. BOX
0340.1000	1 kg	6

## L(+)-Tartaric Acid

'BAKER'

2054

▶ HOOC(CHOH)<sub>2</sub>COOH

**M** = 150.09 g/mol  
**CAS NO.** 87-69-4  
**EINECS** 201-766-0  
**NC CODE** 2918 12 00  
**R:** 36  
**S:** 24/25



irritant

Assay	99.5 - 101.0%
Appearance of solution	passes test
Calcium (Ca)	max. 200 ppm
Chlorides (as Cl)	max. 100 ppm
Heavy Metals (as Pb)	max. 10 ppm
Identification	passes test
Loss on Drying	max. 0.2%
Oxalic acid	max. 350 ppm
Specific Optical Rotation	+ 12.0 - + 12.8
Sulfated Ash	max. 0.1%
Sulfates (as SO <sub>4</sub> )	max. 150 ppm

PRODUCT NO.	PACKING	CONT. BOX
2054.1000	1 kg	
2054.9025	25 kg	
2054.9050	50 kg	

## Tartaric Acid

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Tellurium 1000 µg/ml

5783 (Matrix: 10% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Te

**M** = 127.60 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/37/38  
**S**: 26-45



### Certificate Provided Reporting Actual Lot Analysis

Tellurium (Te) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5783.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Tellurium 10000 µg/ml

5749 (Matrix: 40% hydrochloric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Te

**M** = 127.60 g/mol  
**NC CODE** 3822 00 00  
**UN/ID NO.** 1789  
**ADR/RID** 8 C1  
**IMDG** 8/II  
**R**: 34-37  
**S**: 20-26-36/37/39-45



### Certificate Provided Reporting Actual Lot Analysis

Tellurium (Te) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5749.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## TEMED

See N,N,N',N'-Tetramethylethylene diamine

## 1,1,2,2-Tetrabromoethane

7069 'BAKER ANALYZED'

▶ Br<sub>2</sub>CHCHBr<sub>2</sub>

**M** = 345.65 g/mol  
**II** = 2.96 kg  
**CAS NO.** 79-27-6  
**EINECS** 201-191-5  
**NC CODE** 2903 30 36  
**EC NO.** 602 016 00 9  
**UN/ID NO.** 2504  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R**: 26-36-52/53  
**S**: 24-27-45-61



Assay min. 98%  
 Color (APHA) max. 75  
 Density (g/ml) at 25°C 2.946-2.956  
 Free Halogens passes test  
 Inorganic halides (as Cl) max. 0.0015%

PRODUCT NO.	PACKING	CONT. BOX
7069.0500	500 ml	

## 2',4',5',7'-Tetrabromofluorescein

See Eosin Y (Yellowish)

## 3',3,5',5-Tetrabromophenolsulphonphthalein

See Bromophenol Blue

## Tetrabutylammonium Dihydrogen Phosphate

See Tetrabutylammonium Hydroxide

## Tetrabutylammonium Hydrogen Sulfate

2846 'BAKER HPLC ANALYZED'

▶ (CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>)<sub>4</sub>NHSO<sub>4</sub>

**M** = 339.54 g/mol  
**CAS NO.** 32503-27-8  
**EINECS** 251-068-5  
**NC CODE** 2923 90 00

### For Ion-Pair Chromatography

Assay min. 98%  
 Melting Range 167 - 173°C

PRODUCT NO.	PACKING	CONT. BOX
2846.0500	500 g	

## Tetrabutylammonium Hydroxide

0.4M in water / Titrant / 'BAKER HPLC ANALYZED'

2843

▶  $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)_4\text{NOH}$ 

M = 259.48 g/mol

CAS NO. 5574-97-0

EINECS 218-147-6

NC CODE 2923 90 00

UN/ID NO. 3267

ADR/RID 8 C7

IMDG 8/II

R: 34

S: 26-36/37/39-45



corrosive

## For Ion-Pair Chromatography

Absorbance (neat) at 420 nm	max. 0.15
Appearance	passes test
Bromide (Br)	max. 0.05%
Molarity	0.37-0.43

PRODUCT NO.	PACKING	CONT. BOX
2843.0500	500 g	

## Tetrabutylammonium Phosphate

'BAKER HPLC ANALYZED'

2842

▶  $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2)_4\text{NH}_2\text{PO}_4$ 

M = 339.46 g/mol

CAS NO. 5574-97-0

EINECS 226-947-1

NC CODE 2923 90 00

## For Ion-Pair Chromatography

Assay	min. 97.0%
Appearance (white to off-white powder)	passes test

## Ultraviolet Absorbance (0.1% solution in water):

at 196 nm	max. 1.00
at 200 nm	max. 0.21
at 210 nm	max. 0.15
at 215-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
2842.0025	25 g Glass	

## Tetrachloroethylene

'BAKER ULTRA RESI-ANALYZED' / For Trace Hydrocarbon Analysis by IR Spectrophotometry

9360

▶  $\text{Cl}_2\text{C}:\text{CCl}_2$ 

M = 165.85 g/mol

1 l = 1.62 kg

CAS NO. 127-18-4

EINECS 204-825-9

NC CODE 2903 23 00

EC NO. 602 028 00 4

UN/ID NO. 1897

ADR/RID 6.1 T1

IMDG 6.1/III

R: 40-51/53

S: 23-36/37-61



dangerous for the environment



harmful

Assay (by GC)	min. 99.8%
Chloride (Cl)	max. 1 ppm
Free Halogen (ASTM-D 4755)	passes test
Residue after Evaporation	max. 10 ppm
Titration Acid (meq/g)	max. 0.0005
Water ( $\text{H}_2\text{O}$ )	max. 0.005%

Infrared Absorbance Test: Range 3200-2700  $\text{cm}^{-1}$ ,Measured at 2930  $\text{cm}^{-1}$ 

## (Hexadecane:isooctane:chlorobenzene standard mixture):

Hydrocarbons (excl. of stabilizer)	max. 5 ppm
------------------------------------	------------

PRODUCT NO.	PACKING	CONT. BOX
9360.4000	4 l Glass	4

## Tetrachloroethylene

'BAKER'

7165

▶  $\text{Cl}_2\text{C}:\text{CCl}_2$ 

M = 165.85 g/mol

1 l = 1.62 kg

CAS NO. 127-18-4

EINECS 204-825-9

NC CODE 2903 23 00

EC NO. 602 028 00 4

UN/ID NO. 1897

ADR/RID 6.1 T1

IMDG 6.1/III

R: 40-51/53

S: 23-36/37-61



dangerous for the environment



harmful

Assay (by GC)	min. 99%
Chloride (Cl)	max. 0.001%
Residue after Evaporation	max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
7165.1000	1 l	
7165.2500	2.5 l	4
7165.9025	25 l	

For safe handling of 25 l tin cans, see Self-closing tap.

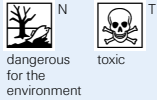
Stabilized with 0.015% 4-Methylmorpholine.

# Tetra

## 7106 'BAKER HPLC ANALYZED'

▶ CCl<sub>4</sub>

**M** = 153.82 g/mol  
**1 l** = 1.59 kg  
**CAS NO.** 56-23-5  
**EINECS** 200-262-8  
**NC CODE** 2903 14 00  
**EC NO.** 602 008 00 5  
**UN/ID NO.** 1846  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/II  
**R:** 23/24/25-40-48/23-52/53-59  
**S:** 23-36/37-45-59-61



Assay (by GC)	min. 99.7%
Chloride (Cl) (in ppm)	max. 10
Residue after Evaporation (in ppm)	max. 3
Titration Acid (meq/g)	max. 0.0005
Water (H <sub>2</sub> O)	max. 0.01%

**Fluorescence Trace Impurities (as quinine base), ppb:**

Measured at 450 nm	act. value reported
Measured at Emission Maximum for Solvent Impurities	act. value reported

**Product Information (not specifications):**

Density (g/ml) at 20°C	1.594
------------------------	-------

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 280 nm	max. 0.06
at 330 nm	max. 0.01
UV Cut-off, nm	max. 265

PRODUCT NO.	PACKING	CONT. BOX
7106.2500	2.5 l	4

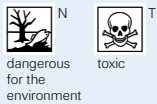
Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

## Tetrachloromethane

### 7306 'BAKER INSTRA-ANALYZED' / GC-Spectrophotometric quality

▶ CCl<sub>4</sub>

**M** = 153.82 g/mol  
**1 l** = 1.59 kg  
**CAS NO.** 56-23-5  
**EINECS** 200-262-8  
**NC CODE** 2903 14 00  
**EC NO.** 602 008 00 5  
**UN/ID NO.** 1846  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/II  
**R:** 23/24/25-40-48/23-52/53-59  
**S:** 23-36/37-45-59-61



Assay (by GC) (corrected for water)	min. 99.9%
Color (APHA)	max. 10
Free Chlorine	passes test
Infrared Transmittance (10 mm path vs air) 2800 - 3200 cm <sup>-1</sup>	min. 80%
Iodine-consuming Substances	passes test
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Suitability for Use in Dithizone Test	passes test
Sulfur Compounds (as S)	passes test
Water Soluble Titration Acid (meq/g)	max. 0.0005

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 265 nm	max. 1.00
at 270 nm	max. 0.35
at 280 nm	max. 0.10
at 290 nm	max. 0.05
at 300 nm	max. 0.02
at 330 nm	max. 0.01
at 400 nm	max. 0.01

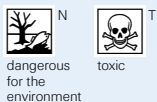
PRODUCT NO.	PACKING	CONT. BOX
7306.1000	1 l	6

## Tetrachloromethane

### 7016 'BAKER ANALYZED' / Ultraviolet Spectrophotometry

▶ CCl<sub>4</sub>

**M** = 153.82 g/mol  
**1 l** = 1.59 kg  
**CAS NO.** 56-23-5  
**EINECS** 200-262-8  
**NC CODE** 2903 14 00  
**EC NO.** 602 008 00 5  
**UN/ID NO.** 1846  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/II  
**R:** 23/24/25-40-48/23-52/53-59  
**S:** 23-36/37-45-59-61



Assay (by GC)	min. 99.9%
Color (APHA)	max. 10
Free Chlorine	passes test
Iodine-consuming Substances	passes test
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Suitability for Use in Dithizone Test	passes test
Sulfur Compounds (as S)	passes test
Water Soluble Titration Acid (meq/g)	max. 0.0005

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 265 nm	max. 1.00
at 270 nm	max. 0.35
at 280 nm	max. 0.10
at 290 nm	max. 0.05
at 300 nm	max. 0.02
at 330 nm	max. 0.01
at 400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
7016.1000	1 l	6
7016.2500	2.5 l	4

Suitable for dithizone.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z



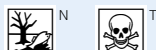
## Tetrachloromethane

'BAKER ANALYZED' / For Dithizone

7420

▶ CCl<sub>4</sub>

**M** = 153.82 g/mol  
**1 l** = 1.59 kg  
**CAS NO.** 56-23-5  
**EINECS** 200-262-8  
**NC CODE** 2903 14 00  
**EC NO.** 602 008 00 5  
**UN/ID NO.** 1846  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/II  
**R:** 23/24/25-40-48/23-52/53-59  
**S:** 23-36/37-45-59-61



dangerous  
for the  
environment

toxic

Assay (by GC)	min. 99.9%
Color (APHA)	max. 10
Free Chlorine	passes test
Iodine-consuming Substances	passes test
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Suitability for Use in Dithizone Test	passes test
Sulfur Compounds (as S)	max. 0.005%
Water Soluble Titrable Acid (meq/g)	max. 0.0005

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
7420.1000	1 l	6
7420.2500	2.5 l	4

## n-Tetradecane

'BAKER'

8192

▶ CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>CH<sub>3</sub>

**M** = 198.40 g/mol  
**1 l** = 0.76 kg  
**FLASHPOINT** 100 °C  
**CAS NO.** 629-59-4  
**EINECS** 211-096-0  
**NC CODE** 2901 10 00  
**ADR/RID** 3.32c

Assay (by GC)	min. 98%
Freezing Point	5-7 °C

PRODUCT NO.	PACKING	CONT. BOX
8192.1000	1 l	

## Tetraethylrhodamine

See Rhodamine B

## Tetrahydrofuran

Low Water / 'BAKER HPLC ANALYZED' / for use in Liquid Chromatography, Organic and Biosynthesis

9439

▶ OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>

**M** = 72.11 g/mol  
**1 l** = 0.88 kg  
**FLASHPOINT** -20 °C  
**CAS NO.** 109-99-9  
**EINECS** 203-726-8  
**NC CODE** 2932 11 00  
**EC NO.** 603 025 00 0  
**UN/ID NO.** 2056  
**ADR/RID** 3 T1  
**IMDG** 3/II  
**R:** 11-19-36-37  
**S:** 16-29-33



highly  
flammable

irritant

Assay (by GC) (corrected for water)	min. 99.8%
Color (APHA)	max. 10
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 10 ppm
Residue after Evaporation	max. 2 ppm
Water (by KF, coulometric)	max. 50 ppm

**Ultraviolet Absorbance (1.00-cm path vs water):**

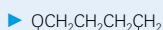
at 230 nm	max. 0.40
at 254 nm	max. 0.15
at 280 nm	max. 0.030
at 320-400 nm	max. 0.005
UV Cut-off, nm	max. 212

PRODUCT NO.	PACKING	CONT. BOX
9439.1000	1 l	

Contains no preservative.

## Tetrahydrofuran

9440 'BAKER HPLC ANALYZED' / for Use in Liquid Chromatography and Spectrophotometry



**M** = 72.11 g/mol

**1 l** = 0.88 kg

**FLASHPOINT** -20 °C

**CAS NO.** 109-99-9

**EINECS** 203-726-8

**NC CODE** 2932 11 00

**EC NO.** 603 025 00 0

**UN/ID NO.** 2056

**ADR/RID** 3 T1

**IMDG** 3/II

**R:** 11-19-36-37

**S:** 16-29-33



Assay (by GC) (corrected for water)	min. 99.8%
Peroxide (as H <sub>2</sub> O <sub>2</sub> ) <sup>1)</sup>	max. 0.005%
Residue after Evaporation	max. 2 ppm
Water (by KF, coulometric)	max. 0.02%

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 230 nm	max. 0.45
at 254 nm	max. 0.15
at 280 nm	max. 0.030
at 320-400 nm	max. 0.01
UV Cut-off, nm	max. 212

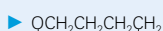
<sup>1)</sup> At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
9440.1000	1 l	6

Contains no preservative.

## Tetrahydrofuran

9441 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography



**M** = 72.11 g/mol

**1 l** = 0.88 kg

**FLASHPOINT** -20 °C

**CAS NO.** 109-99-9

**EINECS** 203-726-8

**NC CODE** 2932 11 00

**EC NO.** 603 025 00 0

**UN/ID NO.** 2056

**ADR/RID** 3 T1

**IMDG** 3/II

**R:** 11-19-36-37

**S:** 16-29-33



Assay (by GC)	min. 99.8%
Peroxide (as H <sub>2</sub> O <sub>2</sub> ) <sup>1)</sup>	max. 0.010%
Residue after Evaporation	max. 3 ppm
Water (H <sub>2</sub> O)	max. 0.02%

**Product Information (not specifications):**

Density (g/ml) at 20°C 0.889

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 230 nm	max. 1.0
at 260 nm	max. 0.15
at 270 nm	max. 0.08
at 310 nm	max. 0.01

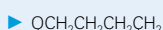
<sup>1)</sup> At time of lot release.

PRODUCT NO.	PACKING	CONT. BOX
9441.1000	1 l	4
9441.2500	2.5 l	4

Filtered through a 0.2 micron filter.  
Packaged under Nitrogen.

## Tetrahydrofuran

9446 BakerDRY / Low Water Solvent / ACS



**M** = 72.11 g/mol

**1 l** = 0.88 kg

**FLASHPOINT** -20 °C

**CAS NO.** 109-99-9

**EINECS** 203-726-8

**NC CODE** 2932 11 00

**EC NO.** 603 025 00 0

**UN/ID NO.** 2056

**ADR/RID** 3 T1

**IMDG** 3/II

**R:** 11-19-36-37

**S:** 16-29-33



**Meets ACS Specifications**

Assay (by GC) (corrected for water)	min. 99.8%
Color (APHA)	max. 10
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	max. 10 ppm
Residue after Evaporation	max. 1 ppm
Water (by KF, coulometric)	max. 10 ppm

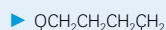
PRODUCT NO.	PACKING	CONT. BOX
9446.1000	1 l	

Packaged under Argon.

## Tetrahydrofuran

'BAKER ANALYZED'

8075



**M** = 72.11 g/mol

**1 l** = 0.88 kg

**FLASHPOINT** -20 °C

**CAS NO.** 109-99-9

**EINECS** 203-726-8

**NC CODE** 2932 11 00

**EC NO.** 603 025 00 0

**UN/ID NO.** 2056

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-19-36/37

**S:** 16-29-33



Assay (by GC)	min. 99%
Boiling Range	65-67°C
Color (APHA)	passes test
Density (g/ml) at 25°C	0.880-0.883
Peroxide (as $\text{H}_2\text{O}_2$ )	max. 0.02%
Residue after Evaporation	max. 0.002%
Water ( $\text{H}_2\text{O}$ )	max. 0.02%

**Trace Impurities (in ppm):**

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8075.1000	1 l	6
8075.10005	1 l EcoTainer	
8075.2500	2.5 l	4
8075.5000	5 l EcoTainer	
8075.9025	25 l	

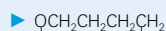
EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with 0.025% BHT.

## Tetrahydrofuran

'BAKER'

8117



**M** = 72.11 g/mol

**1 l** = 0.88 kg

**FLASHPOINT** -20 °C

**CAS NO.** 109-99-9

**EINECS** 203-726-8

**NC CODE** 2932 11 00

**EC NO.** 603 025 00 0

**UN/ID NO.** 2056

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-19-36/37

**S:** 16-29-33



Assay	min. 99%
Boiling Range	65-68°C
Water ( $\text{H}_2\text{O}$ )	max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8117.1000	1 l	
8117.2500	2.5 l	4
8117.9025	25 l	
8117.9200	200 l	

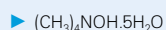
For safe handling of 25 l tin cans, see Self-closing tap.

Stabilized with 0.025% BHT.

## Tetramethylammonium Hydroxide Pentahydrate

'BAKER'

6131



**M** = 181.23 g/mol

**CAS NO.** 75-59-2

**EINECS** 200-882-9

**NC CODE** 2923 90 00

**UN/ID NO.** 1835

**ADR/RID** 8 C7

**IMDG** 8/II

**R:** 25-34-52/53

**S:** 26-36/37/39-45-61



Assay	min. 98%
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PRODUCT NO.	PACKING	CONT. BOX
6131.0025	25 g Glass	

## Tetramethylammonium Hydroxide (TMAH), Finyte Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Tetramethylene Oxide

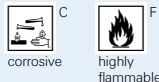
See Tetrahydrofuran

**4098**

## N,N,N',N'-Tetramethylethylene diamine

'BAKER ULTRAPURE BIOREAGENT' / Catalyst for polyacrylamide gels

▶  $(\text{CH}_3)_2\text{NCH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$   
**M** = 116.21 g/mol  
**II** = 0.78 kg  
**FLASHPOINT** 17 °C  
**CAS NO.** 110-18-9  
**EINECS** 203-744-6  
**NC CODE** 2921 29 00  
**EC NO.** 612 103 00 3  
**UN/ID NO.** 2372  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20/22-34  
**S:** 16-26-36/37/39-45



	act. value reported
Assay	none detected
DNase Activity	none detected
Protease Activity	none detected
Refractive Index at 25°C, n <sub>D</sub> <sup>20</sup>	1.414-1.420
RNase Activity	none detected

PRODUCT NO.	PACKING	CONT. BOX
4098.0005	5 ml	
4098.0025	25 ml	
4098.0050	50 ml	

**5784**

## Thallium 1000 µg/ml

(Matrix: 2% nitric acid) / Plasma Standard

▶ **TI**  
**M** = 204.38 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/22-36/38  
**S:** 26-36/37



**Certificate Provided Reporting Actual Lot Analysis**  
 Thallium (TI) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5784.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

**5761**

## Thallium 10000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER ANALYZED' / Plasma Standard

▶ **TI**  
**M** = 204.38 g/mol  
**NC CODE** 3822 00 00  
**R:** 23/25-33-36/38  
**S:** 26-28-36/37/39-45



**Certificate Provided Reporting Actual Lot Analysis**  
 Thallium (TI) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5761.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Thiamine Hydrochloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

**1200**

## Thioacetamide

crystal / 'BAKER ANALYZED'

▶  $\text{CH}_3\text{CSNH}_2$   
**M** = 75.13 g/mol  
**CAS NO.** 62-55-5  
**EINECS** 200-541-4  
**NC CODE** 2930 90 70  
**EC NO.** 616 026 00 6  
**R:** 22-36/38-45-52/53  
**S:** 45-53-61



	min. 99.0%
Assay	
Melting Point	111.0-114.0°C.
Residue after Ignition	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
1200.0125	125 g	

## Thiocarbamide

See Thiourea

## Thioethylene Glycol

See 2-Mercaptoethanol

## Thiourea

'BAKER ANALYZED'

0342

▶ (NH<sub>2</sub>)<sub>2</sub>CS

**M** = 76.12 g/mol  
**CAS NO.** 62-56-6  
**EINECS** 200-543-5  
**NC CODE** 2930 90 70  
**EC NO.** 612 082 00 0  
**UN/ID NO.** 2811  
**ADR/RID** 6.1 T2  
**IMDG** 6.1/III  
**R:** 22-40-51/53-63  
**S:** 22-36/37-61



dangerous  
for the  
environment



harmful

Assay	min. 99.0%
Iron (Fe)	max. 0.001%
Loss on Drying	max. 0.5%
Melting Range	174-177°C
Residue after Ignition	max. 0.05%
Sensitivity for Bismuth	passes test
Solubility in Water	passes test

PRODUCT NO.	PACKING	CONT. BOX
0342.5000	5 kg	
0342.9050	50 kg	

## Thorium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5785

▶ Th

**M** = 232.04 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



irritant

### Certificate Provided Reporting Actual Lot Analysis

Thorium (Th)	998-1002 µg/ml
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PRODUCT NO.	PACKING	CONT. BOX
5785.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Thorium 1000 µg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

6954

▶ Th

**M** = 232.04 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



irritant

Thorium (Th)	998-1002 µg/ml
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PRODUCT NO.	PACKING	CONT. BOX
6954.0100	100 ml	
6954.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Thorium 10000 µg/ml

(Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5750

▶ Th

**M** = 232.04 g/mol  
**NC CODE** 3822 00 00  
**R:** 34  
**S:** 23-26-36-45



corrosive

### Certificate Provided Reporting Actual Lot Analysis

Thorium (Th)	9980-10020 µg/ml
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PRODUCT NO.	PACKING	CONT. BOX
5750.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## L-Threonine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Thymol

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Thymolphthalein

1206 'BAKER ANALYZED' / ACS

▶  $C_{28}H_{34}COO_2[C_8H_7-2-CH_3-4-OH-5-CH(CH_3)_2]_2$   
**M** = 430.55 g/mol  
**CAS NO.** 125-20-2  
**EINECS** 204-729-7  
**NC CODE** 3204 19 00

### Meets ACS Specifications

Clarity of Solution passes test  
**Visual Transition Interval:**  
 from pH 8.8(colourless) to pH 10.5(blue) passes test

PRODUCT NO.	PACKING	CONT. BOX
1206.0005	5 g	
1206.1000	1 kg	

## Tin

9509 Shot / 'BAKER ANALYZED' / ACS

▶ Sn  
**M** = 118.69 g/mol  
**CAS NO.** 7440-31-5  
**EINECS** 231-141-8  
**NC CODE** 8005 00 00

### Exceeds ACS Specifications

Assay (by EDTA titrn.) min. 99.9%  
 Antimony (Sb) max. 0.02%  
 Arsenic (As) max. 1 ppm  
 Copper (Cu) max. 0.002%  
 Iron (Fe) max. 0.01%  
 Lead (Pb) max. 0.005%  
 Zinc (Zn) max. 0.005%

PRODUCT NO.	PACKING	CONT. BOX
9509.0500	500 g	

## Tin 1000 µg/ml

5786 (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Sn  
**M** = 118.71 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



### Certificate Provided Reporting Actual Lot Analysis

Tin (Sn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5786.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Tin 1000 µg/ml

6943 0.10% (w/v) / (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Sn  
**M** = 118.71 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/21/22-36/38  
**S:** 26-36/37



Tin (Sn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6943.0100	100 ml	
6943.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Tin 1000 µg/ml

6824 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Sn  
**M** = 118.71 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/37/38  
**S:** 26-37-45



Tin (Sn) 995-1005 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6824.0100	100 ml	
6824.0500	500 ml	

Tin(II)chloride in hydrochloric acid 5 mol/l.

## Tin 10000 µg/ml

(Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER ANALYZED' / Plasma Standard

5751

▶ Sn

**M** = 118.71 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 23-26-37



corrosive

## Certificate Provided Reporting Actual Lot Analysis

Tin (Sn) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5751.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Tin(II) Chloride Dihydrate

'BAKER ANALYZED' / Low in Mercury

0323

▶ SnCl<sub>2</sub>·2H<sub>2</sub>O

**M** = 225.63 g/mol  
**CAS NO.** 10025-69-1  
**EINECS** 231-868-0  
**NC CODE** 2827 39 10  
**R**: 22-36/37/38  
**S**: 24/25-26



harmful

Assay	min. 98%
Ammonium (NH <sub>4</sub> )	max. 0.002%
Arsenic (As)	max. 0.0001%
Copper (Cu)	max. 0.001%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.005%
Mercury (Hg)	max. 0.01 ppm
Substances not Precipitated by H <sub>2</sub> S (as SO <sub>4</sub> )	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0323.0250	250 g	

## Tin(II) Chloride Dihydrate

'BAKER ANALYZED' / ACS

0325

▶ SnCl<sub>2</sub>·2H<sub>2</sub>O

**M** = 225.63 g/mol  
**CAS NO.** 10025-69-1  
**EINECS** 231-868-0  
**NC CODE** 2827 39 10  
**R**: 22-36/37/38  
**S**: 24/25-26



harmful

## Exceeds ACS Specifications

Assay	98.0-103.0%
Calcium (Ca)	max. 0.005%
Iron (Fe)	max. 0.003%
Lead (Pb)	max. 0.01%
Potassium (K)	max. 0.005%
Sodium (Na)	max. 0.01%
Solubility in HCl	passes test
Sulfate (SO <sub>4</sub> )	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0325.0100	100 g	6
0325.0250	250 g	6
0325.1000	1 kg	6
0325.9050	50 kg	

## Tin(II) Chloride Dihydrate

'BAKER'

0520

▶ SnCl<sub>2</sub>·2H<sub>2</sub>O

**M** = 225.63 g/mol  
**CAS NO.** 10025-69-1  
**EINECS** 231-868-0  
**NC CODE** 2827 39 10  
**R**: 22-36/37/38  
**S**: 24/25-26



harmful

Assay	min. 95%
Iron (Fe)	max. 0.01%
Sulfate (SO <sub>4</sub> )	max. 0.02%

## Trace Impurities (in ppm):

Arsenic (As)	max. 2
--------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0520.1000	1 kg	
0520.9050	50 kg	

Mallinckrodt Baker's chemistry  
 is Part of a pure process™.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Tin(IV) Chloride Pentahydrate**

0322 Lump / 'BAKER ANALYZED'

▶ SnCl<sub>4</sub>·5H<sub>2</sub>O  
**M** = 350.58 g/mol  
**CAS NO.** 10026-06-9  
**EINECS** 231-588-9  
**NC CODE** 2827 39 10  
**EC NO.** 50 001 00 5  
**UN/ID NO.** 2440  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 34-52/53  
**S:** 26-45-61-7/8



Assay	99.0-102.0%
Arsenic (As)	max. 0.002%
Insoluble in HCl	max. 0.01%
Iron (Fe)	max. 0.003%
Sulfate (SO <sub>4</sub> )	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0322.0500	500 g	
0322.9050	50 kg	

**Titanium 1000 µg/ml**

5787 (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED'

▶ Ti  
**M** = 47.88 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26



Certificate Provided Reporting Actual Lot Analysis Plasma Standard	
Titanium (Ti)	998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5787.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

**Titanium 1000 µg/ml**

6964 (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Ti  
**M** = 47.88 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-36/37



Titanium (Ti)	998-1002 µg/ml
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PRODUCT NO.	PACKING	CONT. BOX
6964.0100	100 ml	
6964.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

**Titanium 1000 µg/ml**

6825 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Ti  
**M** = 47.88 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/37/38  
**S:** 26-37-45



Titanium (Ti)	995-1005 µg/ml
---------------	----------------

PRODUCT NO.	PACKING	CONT. BOX
6825.0100	100 ml	
6825.0500	500 ml	

Titanium(III)chloride in hydrochloric acid 5 mol/l.

**Titanium 10000 µg/ml**

5752 (Matrix: 2% nitric acid plus a trace of hydrofluoric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Ti  
**M** = 47.88 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-36/37



Certificate Provided Reporting Actual Lot Analysis	
Titanium (Ti)	9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5752.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.


A  
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Z



## Titanium(IV) Chloride

Purified

9019

▶ TiCl <sub>4</sub>		Assay (TiCl <sub>4</sub> )	min. 99%	PRODUCT	PACKING	CONT.
		Iron (Fe)	max. 10 ppm	NO.		BOX
<b>M</b> =	189.71 g/mol			9019.0500	500 ml	
<b>1 l</b> =	1.73 kg					
<b>CAS NO.</b>	7550-45-0					
<b>EINECS</b>	231-441-9					
<b>NC CODE</b>	2827 39 80					
<b>EC NO.</b>	22 001 00 5					
<b>UN/ID NO.</b>	1838					
<b>ADR/RID</b>	8 C1					
<b>IMDG</b>	8/II					
<b>R:</b>	14-34					
<b>S:</b>	26-36/37/39-45-7/8					
						
	corrosive					

## Titanium Dioxide

See Titanium(IV) Oxide

## Titanium(IV) Oxide

Powder / ULTREX Ultrapure Reagent

4962

▶ TiO <sub>2</sub>		<b>Certificate Provided Reporting Actual Lot Analysis</b>		PRODUCT	PACKING	CONT.
		<b>Actual Lot Analysis Lot No. B21421</b>		NO.		BOX
<b>M</b> =	79.90 g/mol	Assay (based on loss on ignition)	99.9%	4962.0100	100 g Glass	
<b>CAS NO.</b>	13463-67-7	Identification	passes test			
<b>EINECS</b>	236-675-5	Loss on Ignition at 1150°C	0.08%			
<b>NC CODE</b>	2823 00 00	<b>Metallic Impurities in parts per million (µg/g):</b>		For Laboratory, Research or Manufacturing Use.		
		Aluminium (Al)	< 0.2			
		Calcium (Ca)	2			
		Chromium (Cr)	9			
		Copper (Cu)	8			
		Iron (Fe)	1			
		Lead (Pb)	< 0.1			
		Magnesium (Mg)	< 0.1			
		Manganese (Mn)	< 0.1			
		Molybdenum (Mo)	< 0.1			
		Nickel (Ni)	< 0.2			
		Niobium (Nb)	< 0.2			
		Silver (Ag)	13			
		Strontium (Sr)	< 0.2			
		Vanadium (V)	4			
		Zirconium (Zr)	< 0.2			
		<b>Non-Metallic Impurities in parts per million (µg/g):</b>				
		Chloride (Cl)	< 10			
		Silicon (Si)	1			

## Titanium Tetrachloride

See Titanium(IV) Chloride

## TMAH

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

Questions or suggestions, please contact us  
at [jtbaker.nl@emea.tycohealthcare.com](mailto:jtbaker.nl@emea.tycohealthcare.com)

# Toluene

**9336** 'BAKER ULTRA RESI-ANALYZED' / for Organic Residue Analysis

▶  $C_6H_5CH_3$   
**M** = 92.14 g/mol  
**1 l** = 0.86 kg  
**FLASHPOINT** 4 °C  
**CAS NO.** 108-88-3  
**EINECS** 203-625-9  
**NC CODE** 2902 30 00  
**EC NO.** 601 021 00 3  
**UN/ID NO.** 1294  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20  
**S:** 16-25-29-33



Assay (by GC) (corrected for water) min. 99.7%  
 Color (APHA) max. 10  
 Residue after Evaporation max. 1 ppm  
 Substances Darkened by  $H_2SO_4$  passes test  
 Water (by KF, coulometric) max. 0.03%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**  
 Single Impurity Peak (pg/ml) max. 10  
**FID-Sensitive Impurities (as 2-Octanol):**  
 Single Impurity Peak (ng/ml) max. 10

PRODUCT NO.	PACKING	CONT. BOX
9336.1000	1 l	
9336.2500	2.5 l	4

**9351** 'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

▶  $C_6H_5CH_3$   
**M** = 92.14 g/mol  
**1 l** = 0.86 kg  
**FLASHPOINT** 4 °C  
**CAS NO.** 108-88-3  
**EINECS** 203-625-9  
**NC CODE** 2902 30 00  
**EC NO.** 601 021 00 3  
**UN/ID NO.** 1294  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-48/20-63-65-67  
**S:** 36/37-46-62



Assay (by GC) min. 99.7%  
 Substances Darkened by  $H_2SO_4$  passes test  
**Maximum Limits of Impurities:**  
 Residue after Evaporation (in ppm) 3  
 Water ( $H_2O$ ) 0.02%

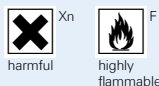
**Physical Data (not specifications):**  
 Density (g/ml) at 20°C 0.867  
**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 288 nm max. 0.40  
 at 300 nm max. 0.10  
 at 350 nm max. 0.01  
 UV Cut-off, nm max. 285

PRODUCT NO.	PACKING	CONT. BOX
9351.1000	1 l	6
9351.5000	5 l EcoTainer	

Filtered through a 0.2 micron filter.  
 Packaged under Nitrogen.

**8714** PHOTREX Reagent / For Spectrophotometry and Liquid Scintillation Counting / ACS

▶  $C_6H_5CH_3$   
**M** = 92.14 g/mol  
**1 l** = 0.86 kg  
**FLASHPOINT** 4 °C  
**CAS NO.** 108-88-3  
**EINECS** 203-625-9  
**NC CODE** 2902 30 00  
**EC NO.** 601 021 00 3  
**UN/ID NO.** 1294  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-20  
**S:** 16-25-29-33



**Meets ACS Specifications**  
 Assay (by GC) min. 99.5%  
 Color (APHA) max. 5  
 Counting Efficiency for  $^3H$  in Prepared 'Cocktail' act. value reported  
 Residue after Evaporation max. 0.0005%  
 Substances Darkened by  $H_2SO_4$  passes test  
 Sulfur Compounds (as S) max. 0.003%  
 Water (by KF, coulometric) max. 0.02%

**Optical Absorbance (1-cm path vs water):**  
 at 286 nm max. 1.00  
 at 288 nm max. 0.50  
 at 293 nm max. 0.20  
 at 300 nm max. 0.10  
 at 310 nm max. 0.05  
 at 335 nm max. 0.02  
 at 350 nm max. 0.01  
 at 380-400 nm max. 0.005

**Product Information (not specifications):**  
 Boiling Point (typical) 110.6°C  
 Windows of Infrared Transmittance (0.1-mm path, 50-100%T),  $\mu m$ : passes test

PRODUCT NO.	PACKING	CONT. BOX
8714.0500	500 ml	

## Toluene

BakerDRY / Low Water Solvent / ACS

9364

▶ C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 00

EC NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

R: 11-38-48/20-63-65-67

S: 36/37-46-62



harmful



highly flammable

## Meets ACS Specifications

Assay (C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> )(by GC, corrected for water)	min. 99.5%
Boiling Point (typical)	110.6°C
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfur Compounds (as S)	max. 0.003%
Water (by KF, coulometric)	max. 10 ppm

PRODUCT NO.	PACKING	CONT. BOX
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9364.1000 1 l

## Toluene

'BAKER ANALYZED' / ACS

8077

▶ C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 00

EC NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

R: 11-38-48/20-63-65-67

S: 36/37-46-62



harmful



highly flammable

## Exceeds ACS Specifications

Assay	min. 99.5%
Benzene	max. 0.1%
Color (APHA)	max. 10
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfur Compounds (as S)	max. 0.003%
Water (H <sub>2</sub> O)	max. 0.03%

## Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
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8077.1000	1 l	6
8077.2500	2.5 l	4
8077.5000	5 l EcoTainer	4
8077.9025	25 l	
8077.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab. For safe handling of 25 l tin cans, see Self-closing tap.

## Toluene

'BAKER'

8078

▶ C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>

M = 92.14 g/mol

1 l = 0.86 kg

FLASHPOINT 4 °C

CAS NO. 108-88-3

EINECS 203-625-9

NC CODE 2902 30 00

EC NO. 601 021 00 3

UN/ID NO. 1294

ADR/RID 3 F1

IMDG 3/II

R: 11-38-48/20-63-65-67

S: 36/37-46-62



harmful



highly flammable

Assay (by GC)	min. 98%
Boiling Range	109-112°C
Residue after Evaporation	max. 0.002%
Water (H <sub>2</sub> O)	max. 0.05%

PRODUCT NO.	PACKING	CONT. BOX
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8078.2500	2.5 l	4
8078.5000	5 l EcoTainer	4
8078.9025	25 l	
8078.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab. For safe handling of 25 l tin cans, see Self-closing tap.

# Toluene

**3411** Toluene 99% / HISTO GRADE

▶  $C_8H_8CH_3$  Benzene max. 0.02%

**M** = 92.14 g/mol  
**1 l** = 0.86 kg

**FLASHPOINT** 4 °C

**CAS NO.** 108-88-3  
**EINECS** 203-625-9  
**NC CODE** 2902 30 00  
**EC NO.** 601 021 00 3  
**UN/ID NO.** 1294  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 11-38-48/20-63-65-67  
**S:** 36/37-46-62



PRODUCT NO.	PACKING	CONT. BOX
3411.9010	10 l	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## Toluene MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

**0716** Toluidine Blue O 'BAKER'

▶  $(CH_3)_2NC_6H_3N:C_6H_2(CH_3)(NH_2):S\cdot Cl$  Identification (by IR) passes test

**M** = 305.83 g/mol

**CAS NO.** 92-31-9  
**EINECS** 202-146-2  
**NC CODE** 2934 30 90

PRODUCT NO.	PACKING	CONT. BOX
0716.0025	25 g Glass	
C.I. 52040.		

## Trace Metal Standard I

**6031-01** (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

**NC CODE** 3822 00 00  
**UN/ID NO.** 3264  
**ADR/RID** 8.17c  
**IMDG** 8/III  
**R:** 34  
**S:** 23-26-36/37/39-45



Elemental Concent (µg/ml):	
Aluminium (Al)	500
Arsenic (As)	100
Beryllium (Be)	100
Cadmium (Cd)	25
Chromium (Cr)	100
Cobalt (Co)	100
Copper (Cu)	100
Iron (Fe)	100
Lead (Pb)	100
Manganese (Mn)	100
Mercury (Hg)	5
Nickel (Ni)	100
Selenium (Se)	25
Vanadium (V)	250
Zinc (Zn)	100

PRODUCT NO.	PACKING	CONT. BOX
6031-01	100 ml	
For use in EPA SW-846 Methods 6010 and 200.7. Traceable to NIST.		

## Trace Metal Standard III

**6033-01** (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



Elemental Concent (µg/ml):	
Barium (Ba)	500
Calcium (Ca)	500
Magnesium (Mg)	100
Molybdenum (Mo)	500
Potassium (K)	100
Sodium (Na)	500

PRODUCT NO.	PACKING	CONT. BOX
6033-01	100 ml	
For use in EPA SW-846 Methods 6010 and 200.7. Traceable to NIST.		

## Tribromomethane

See Bromoform

A  
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W  
X  
Y  
Z

## Tributyl Phosphate

'BAKER'

7074

▶  $(\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{O})_3\text{PO}$   
**M** = 266.32 g/mol  
**1 l** = 0.98 kg  
**FLASHPOINT** 146 °C  
**CAS NO.** 126-73-8  
**EINECS** 204-800-2  
**NC CODE** 2919 00 10  
**EC NO.** 15 014 00 2  
**R:** 22  
**S:** 25



Appearance passes test  
 Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
7074.1000	1 l	

## Tricalcium Phosphate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Trichloroacetaldehyde Hydrate

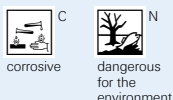
See Chloral Hydrate

## Trichloroacetic Acid

'BAKER ANALYZED' / For Turbidimetry / ACS

0344

▶  $\text{Cl}_3\text{CCOOH}$   
**M** = 163.39 g/mol  
**CAS NO.** 76-03-9  
**EINECS** 200-927-2  
**NC CODE** 2915 40 00  
**EC NO.** 607 004 00 7  
**UN/ID NO.** 1839  
**ADR/RID** 8 C4  
**IMDG** 8/II  
**R:** 35-50/53  
**S:** 26-36/37/39-45-60-61



**Exceeds ACS Specifications**

Assay	min. 99.0%
Chloride (Cl)	max. 0.001%
Heavy Metals (as Pb)	max. 0.002%
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 0.001%
Nitrate ( $\text{NO}_3$ )	max. 0.002%
Residue after Ignition	max. 0.02%
Substances Darkened by $\text{H}_2\text{SO}_4$	passes test
Sulfate ( $\text{SO}_4$ )	max. 0.02%
<b>Trace Impurities (in ppm):</b>	
Phosphate ( $\text{PO}_4$ )	max. 5

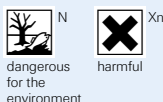
PRODUCT NO.	PACKING	CONT. BOX
0344.0250	250 g	6
0344.1000	1 kg	6
0344.9050	50 g	

## 1,2,4-Trichlorobenzene

'BAKER ANALYZED' / For use in Gel Permeation Chromatography

9444

▶  $\text{C}_6\text{H}_3\text{Cl}_3$   
**M** = 181.45 g/mol  
**CAS NO.** 120-82-1  
**EINECS** 204-428-0  
**NC CODE** 2903 69 90  
**UN/ID NO.** 2321  
**ADR/RID** 6.1 T1  
**IMDG** 6.1/III  
**R:** 22-36/37/38-51/53  
**S:** 26-61



Assay (by GC)	min. 99%
<b>Maximum Limits of Impurities:</b>	
Residue after Evaporation (in ppm)	5
Water ( $\text{H}_2\text{O}$ )	0.01%
<b>Physical Data (not specifications):</b>	
Boiling Point	213.5°C
Density (g/ml) at 20°C	1.454
Refractive Index $n_D^{20}$	1.572
Vapor Pressure at 100°C	20 mm Hg
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 350 nm	max. 0.15
at 375 nm	max. 0.05
at 400 nm	max. 0.01
UV Cut-off, nm	max. 310

PRODUCT NO.	PACKING	CONT. BOX
9444.2500	2.5 l	4

*Innovation is principal to our business.*

**8430**

## 1,2,4-Trichlorobenzene

**'BAKER'**

▶ C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>
**M** = 181.45 g/mol

**CAS NO.** 120-82-1

**EINECS** 204-428-0

**NC CODE** 2903 69 90

**EC NO.** 602 087 00 6

**UN/ID NO.** 2321

**ADR/RID** 6.1 T1

**IMDG** 6.1/III

**R:** 22-50/53

**S:** 23-37/39-60-61

 dangerous  
for the  
environment


harmful

Assay (by GC)

min. 99%

PRODUCT NO.	PACKING	CONT. BOX
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8430.0100	100 ml	
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8430.1000	1 l	
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8430.2500	2.5 l	
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8430.9025	25 l	
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For safe handling of 25 l tin cans, see Self-closing tap.

**7309**

## 1,1,1-Trichloroethane

**'BAKER'**

▶ CH<sub>2</sub>CCl<sub>3</sub>
**M** = 133.41 g/mol

**1 l** = 1.34 kg

**CAS NO.** 71-55-6

**EINECS** 200-756-3

**NC CODE** 2903 19 80

**EC NO.** 602 013 00 2

**UN/ID NO.** 2831

**ADR/RID** 6.1 T1

**IMDG** 6.1/III

**R:** 20-59

**S:** 24/25-59-61

 dangerous  
for the  
environment


harmful

Boiling Range (1 ml-95 ml)

70-88 °C

Color (APHA)

max. 15

PRODUCT NO.	PACKING	CONT. BOX
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7309.1000	1 l	6
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7309.2500	2.5 l	4
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Certified by the Biological Stain Commission.

Contains 4% stabilizer

**7075**

## Trichloroethylene

Stabilized / 'BAKER ANALYZED'

▶ ClCH=CCl<sub>2</sub>
**M** = 131.39 g/mol

**1 l** = 1.46 kg

**FLASHPOINT** 32 °C

**CAS NO.** 79-01-6

**EINECS** 201-167-4

**NC CODE** 2903 22 00

**EC NO.** 602 027 00 9

**UN/ID NO.** 1710

**ADR/RID** 6.1 T1

**IMDG** 6.1/III

**R:** 36/38-45-52/53-67

**S:** 45-53-61


toxic

Assay (by GC)

min. 99%

Boiling Range (initial to dry point)

max. 1.0°C

Color (APHA)

max. 10

Density (g/ml) at 25°C

1.455-1.460

Free Halogens

passes test

Recorded Boiling Point

87.1°C

Residue after Evaporation

max. 0.002%

Titrable Acid (meq/g)

max. 0.0001

Titrable Base (meq/g)

max. 0.0003

 Water (H<sub>2</sub>O)

max. 0.01%

**Trace Impurities (in ppm):**

Aluminium (Al)

max. 0.5

Barium (Ba)

max. 0.1

Boron (B)

max. 0.02

Cadmium (Cd)

max. 0.05

Calcium (Ca)

max. 0.5

Chromium (Cr)

max. 0.02

Cobalt (Co)

max. 0.02

Copper (Cu)

max. 0.02

Iron (Fe)

max. 0.1

Lead (Pb)

max. 0.1

Magnesium (Mg)

max. 0.1

Manganese (Mn)

max. 0.02

Nickel (Ni)

max. 0.02

Tin (Sn)

max. 0.1

Zinc (Zn)

max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
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7075.2500	2.5 l	
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7075.9200	200 l	
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## Trichloroethylene MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## Trichloromethane

See Chloroform

## 1,1,2-Trichloro-1,2,2-trifluorethane

Freon 113 / 'BAKER ANALYZED' / For IR Analysis

9132

<p>▶ <math>\text{Cl}_2\text{FCCF}_2\text{Cl}</math></p> <p><b>M</b> = 187.40 g/mol</p> <p><b>1 l</b> = 1.57 kg</p> <p><b>CAS NO.</b> 76-13-1</p> <p><b>EINECS</b> 200-936-1</p> <p><b>NC CODE</b> 2903 43 00</p> <p><b>R:</b> 59</p> <p><b>S:</b> 61</p>	<p>Assay (by GC) min. 99.5%</p> <p>Residue after Evaporation max. 5 ppm</p> <p>Water (<math>\text{H}_2\text{O}</math>) max. 0.05%</p>	<p><b>PRODUCT NO.</b> 9132.2500</p> <p><b>PACKING</b> 2.5 l</p> <p><b>CONT. BOX</b> 4</p>
	<p><b>FT-Infrared Absorbance (4-cm path vs air)</b></p> <p><b>measured from 3125 to 2777 <math>\text{cm}^{-1}</math> Transmission (T):</b></p> <p>at 2924 <math>\text{cm}^{-1}</math> (<math>-\text{CH}_2-</math>) min. 45%</p> <p>at 2958 <math>\text{cm}^{-1}</math> (<math>-\text{CH}_3</math>) min. 40%</p> <p>at 3030 <math>\text{cm}^{-1}</math> (<math>-\text{C}_6\text{H}_6</math>) min. 30%</p>	
<p> <b>N</b></p> <p>dangerous for the environment</p>		

## Tricresyl Phosphate

'BAKER'

8691

<p><b>1 l</b> = 1.16 kg</p> <p><b>CAS NO.</b> 78-30-8</p> <p><b>EINECS</b> 201-103-5</p> <p><b>NC CODE</b> 2919 00 10</p> <p><b>EC NO.</b> 15 015 00 8</p> <p><b>UN/ID NO.</b> 2574</p> <p><b>ADR/RID</b> 6.1 T1</p> <p><b>IMDG</b> 6.1/II</p> <p><b>R:</b> 39/23/24/25-51/53</p> <p><b>S:</b> 20-21-28-45-61</p>	<p>Identification (by IR) passes test</p>	<p><b>PRODUCT NO.</b> 8691.1000</p> <p><b>PACKING</b> 1 l</p> <p><b>CONT. BOX</b></p>
<p> <b>N</b></p> <p>dangerous for the environment</p> <p> <b>T</b></p> <p>toxic</p>	<p>From mixed Cresols.</p>	

## Triethanolamine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Triethylamine

'BAKER BIO-ANALYZED'

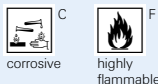
9111

<p>▶ <math>(\text{C}_2\text{H}_5)_3\text{N}</math></p> <p><b>M</b> = 101.19 g/mol</p> <p><b>1 l</b> = 0.73 kg</p> <p><b>FLASHPOINT</b> <math>-17^\circ\text{C}</math></p> <p><b>CAS NO.</b> 121-44-8</p> <p><b>EINECS</b> 204-469-4</p> <p><b>NC CODE</b> 2921 19 10</p> <p><b>EC NO.</b> 612 004 00 5</p> <p><b>UN/ID NO.</b> 1296</p> <p><b>ADR/RID</b> 3 FC</p> <p><b>IMDG</b> 3/II</p> <p><b>R:</b> 11-20/21/22-35</p> <p><b>S:</b> 16-26-29-3-36/37/39-45</p>	<p>Assay (by GC) (corrected for water) min. 99.0%</p> <p>Color (APHA) max. 10</p> <p>Water (<math>\text{H}_2\text{O}</math>) max. 0.20%</p>	<p><b>PRODUCT NO.</b> 9111.0500GL</p> <p><b>PACKING</b> 500 ml Glass</p> <p><b>CONT. BOX</b></p>
<p> <b>C</b></p> <p>corrosive</p> <p> <b>F</b></p> <p>highly flammable</p>		

## Triethylamine

8079 'BAKER'

▶ (C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N  
**M** = 101.19 g/mol  
**1 l** = 0.73 kg  
**FLASHPOINT** - 17 °C  
**CAS NO.** 121-44-8  
**EINECS** 204-469-4  
**NC CODE** 2921 19 10  
**EC NO.** 612 004 00 5  
**UN/ID NO.** 1296  
**ADR/RID** 3 FC  
**IMDG** 3/II  
**R:** 11-20/21/22-35  
**S:** 16-26-29-3-36/37/39-45



Assay min. 98.0%  
 Boiling Point 88-90°C  
 Color (APHA) max. 15  
 Density (g/ml) at 20°C 0.725-0.734  
 Water (H<sub>2</sub>O) max. 0.2%

PRODUCT NO.	PACKING	CONT. BOX
8079.1000	1 l	6
8079.2500	2.5 l	4

## Triethylene Glycol

8689 'BAKER'

▶ HO(CH<sub>2</sub>CH<sub>2</sub>O)<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH  
**M** = 150.18 g/mol  
**1 l** = 1.12 kg  
**FLASHPOINT** 166 °C  
**CAS NO.** 112-27-6  
**EINECS** 203-953-2  
**NC CODE** 2909 49 19  
**S:** 24/25

Color (APHA) max. 25  
 Identification (by IR) passes test

PRODUCT NO.	PACKING	CONT. BOX
8689.1000	1 l	

## Trifluoroacetic Acid

9470 'BAKER HPLC ANALYZED'

▶ F<sub>3</sub>CCOOH  
**M** = 114.03 g/mol  
**1 l** = 1.49 kg  
**CAS NO.** 76-05-1  
**EINECS** 200-929-3  
**NC CODE** 2915 90 80  
**EC NO.** 607 091 00 1  
**UN/ID NO.** 2699  
**ADR/RID** 8 C3  
**IMDG** 8/I  
**R:** 20-35-52/53  
**S:** 26-27-28-45-61-9



Assay min. 99.5%  
 Heavy Metals (as Pb) max. 10 ppm  
 Residue after Evaporation max. 10 ppm  
**Gradient Elution Test (a.u.):**  
 at 215 nm max. 0.05  
**Trace Impurities (in ppm):**  
 Iron (Fe) max. 5  
**Ultraviolet Absorbance (1.00-cm path vs water):**  
 at 230 nm max. 0.15  
 at 254 nm max. 0.01  
 UV Cut-off, nm max. 210

PRODUCT NO.	PACKING	CONT. BOX
9470.0010	1 ml x 10	
9470.0070	70 ml	
9470.1000	1 l	

Gradient tested for HPLC Peptide and Protein Analysis.

## Trifluoroacetic Acid

7079 'BAKER ANALYZED'

▶ F<sub>3</sub>CCOOH  
**M** = 114.03 g/mol  
**1 l** = 1.49 kg  
**CAS NO.** 76-05-1  
**EINECS** 200-929-3  
**NC CODE** 2915 90 80  
**EC NO.** 607 091 00 1  
**UN/ID NO.** 2699  
**ADR/RID** 8 C3  
**IMDG** 8/I  
**R:** 20-35-52/53  
**S:** 26-27-28-45-61-9



Assay min. 99.0%  
 Heavy Metals (as Pb) max. 0.001%  
 Residue after Evaporation max. 0.01%  
**Trace Impurities (in ppm):**  
 Iron (Fe) max. 1

PRODUCT NO.	PACKING	CONT. BOX
7079.0500	500 ml	



## Triglycol

See Triethylene Glycol

## 1,2,3-Trihydroxybenzene

See Pyrogallol

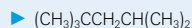
## Trimethylcarbinol

See tert-Butyl Alcohol

## 2,2,4-Trimethylpentane

'BAKER RESI-ANALYZED' / for Organic Residue Analysis

9335



**M** = 114.23 g/mol

**1 l** = 0.70 kg

**FLASHPOINT** – 12 °C

**CAS NO.** 540-84-1

**EINECS** 208-759-1

**NC CODE** 2901 10 00

**EC NO.** 601 009 00 8

**UN/ID NO.** 1262

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous  
for the  
environment



harmful



highly  
flammable

Assay (by GC)	min. 99.8%
Color (APHA)	max. 10
Residue after Evaporation	max. 1 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Water (H <sub>2</sub> O) (by Coulometry)	max. 0.03%

**ECD Sensitive Impurities (as Heptachlor Epoxide):**

Single Impurity Peak (pg/ml)	max. 10
------------------------------	---------

**FID-Sensitive Impurities (as 2-Octanol):**

Single Impurity Peak (ng/ml)	max. 5
------------------------------	--------

**Neat solvent front characterization: ECD-Sensitive Impurities (as Ethylene Dibromide):**

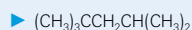
Single Impurity Peak (ng/ml)	max. 5
------------------------------	--------

PRODUCT NO.	PACKING	CONT. BOX
9335.1000	1 l	6
9335.4000	4 l Glass	4

## 2,2,4-Trimethylpentane

'BAKER HPLC ANALYZED' / for use in High Performance Liquid Chromatography

9480



**M** = 114.23 g/mol

**1 l** = 0.69 kg

**FLASHPOINT** – 12 °C

**CAS NO.** 540-84-1

**EINECS** 208-759-1

**NC CODE** 2901 10 00

**EC NO.** 601 009 00 8

**UN/ID NO.** 1262

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous  
for the  
environment



harmful



highly  
flammable

Assay (by GC)	min. 99.8%
Residue after Evaporation (in ppm)	max. 2
Water (H <sub>2</sub> O)	max. 0.01%
Water Soluble Titrable Acid (meq/g)	max. 0.0003

**Physical Data (not specifications):**

Density (g/ml) at 20°C	0.690
------------------------	-------

**Ultraviolet Absorbance (1.00-cm path vs water):**

at 225 nm	max. 0.10
at 254 nm	max. 0.015
at 280 nm	max. 0.01
at 350 nm	max. 0.01
UV Cut-off, nm	max. 205

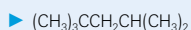
PRODUCT NO.	PACKING	CONT. BOX
9480.1000	1 l	6
9480.2500	2.5 l	4

Filtered through a 0.2 micron filter.  
Packaged under Nitrogen.

Analytical applications are available  
in our Technical Library  
at [www.jtbaker.com/europe](http://www.jtbaker.com/europe)

## 2,2,4-Trimethylpentane

8715 'BAKER ANALYZED' / Ultraviolet Spectrophotometry / ACS



**M** = 114.23 g/mol

**1 l** = 0.69 kg

**FLASHPOINT** - 12 °C

**CAS NO.** 540-84-1

**EINECS** 208-759-1

**NC CODE** 2901 10 00

**EC NO.** 601 009 00 8

**UN/ID NO.** 1262

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous for the environment



harmful



highly flammable

### Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Color (APHA)	max. 10
Residue after Evaporation	max. 5 ppm
Sulfur Compounds (as S)	max. 0.005%
Water Soluble Titrable Acid (meq/g)	max. 0.0003

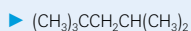
### Ultraviolet Absorbance (1.00-cm path vs water):

at 210 nm	max. 1.0
at 220 nm	max. 0.20
at 230 nm	max. 0.10
at 240 nm	max. 0.04
at 250 - 400nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
8715.1000	1 l	6
8715.2500	2.5 l	4

## 2,2,4-Trimethylpentane

8217 'BAKER ANALYZED' / ACS



**M** = 114.23 g/mol

**1 l** = 0.69 kg

**FLASHPOINT** - 12 °C

**CAS NO.** 540-84-1

**EINECS** 208-759-1

**NC CODE** 2901 10 00

**EC NO.** 601 009 00 8

**UN/ID NO.** 1262

**ADR/RID** 3 F1

**IMDG** 3/II

**R:** 11-38-50/53-65-67

**S:** 16-29-33-60-61-62-9



dangerous for the environment



harmful



highly flammable

### Exceeds ACS Specifications

Assay (by GC)	min. 99.0%
Color (APHA)	max. 10
Density (g/ml) at 25°C	max. 0.690
Residue after Evaporation	max. 0.001%
Sulfur Compounds (as S)	max. 0.005%
Water Soluble Titrable Acid (meq/g)	max. 0.0003

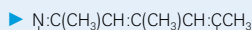
### Trace Impurities (in ppm):

Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8217.1000	1 l	6
8217.2500	2.5 l	4

## 2,4,6-Trimethylpyridine

7081 'BAKER'



**M** = 121.18 g/mol

**1 l** = 0.91 kg

**FLASHPOINT** 57 °C

**CAS NO.** 108-75-8

**EINECS** 203-613-3

**NC CODE** 2933 39 99

**UN/ID NO.** 1992

**ADR/RID** 3 FT1

**IMDG** 3/III

**R:** 10-22-36/38

**S:** 23



harmful

Boiling Point 169-171°C

PRODUCT NO.	PACKING	CONT. BOX
7081.0100	100 ml	

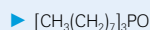
## 1,3,7-Trimethylxanthine

See Caffeine

## Triethylphosphine Oxide

'BAKER'

1462



M = 386.65 g/mol

CAS NO. 78-50-2

EINECS 201-121-3

NC CODE 2931 00 95

R: 34-50/53

S: 26-29-36/39-45



corrosive

dangerous  
for the  
environment

Melting Point 50-55°C.

PRODUCT NO.	PACKING	CONT. BOX
1462.0100	100 g	

## Tripotassium Phosphate

See Potassium Phosphate n-Hydrate

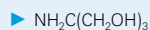
## TRIS Hydrochloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Tris(hydroxymethyl)aminomethane

'BAKER ULTRAPURE BIOAGENT'

4109



M = 121.14 g/mol

CAS NO. 77-86-1

EINECS 201-064-4

NC CODE 2922 19 80

R: 36/38

S: 24/25-26



irritant

### For Molecular Biology Applications

Assay	99.0-101.0%
Assay (dried basis)	min. 99.9%
Appearance (white crystals)	passes test
DNase Activity	none detected
Identification	passes test
Insoluble Matter	max. 0.005%
pH of 0.1 M Solution at 25°C	10.0-11.0
Protease Activity	none detected
RNase Activity	none detected
Water (H <sub>2</sub> O)	max. 0.3%

### Absorbance of a 1 M Solution, Maximum (1-cm path vs water):

at 260 nm	0.06
at 280 nm	0.06
at 400 nm	0.01

### Trace Impurities (in ppm):

Arsenic (As)	max. 1
Calcium (Ca)	max. 1
Copper (Cu)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 1
Magnesium (Mg)	max. 1
Manganese (Mn)	max. 1

Description	passes test
Heavy Metals (as Pb)	max. 0.001%
Loss on Drying	max. 1.0%
Melting Range	168-172°C
Organic Volatile Impurities (1)	conforms to USP/NF
pH (1 in 20)	10.0-11.5
Residue after Ignition	max. 0.1%

PRODUCT NO.	PACKING	CONT. BOX
4109.0500	500 g	
4109.1000	1 kg	
4109.5000	5 kg	
4109.9012	12 kg	

Material also meets the chemical specifications of Tromethamine, U.S.P.

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

# Trish

1414

## Tris(hydroxymethyl)aminomethane

'BAKER ANALYZED' / ACS

▶  $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$   
**M** = 121.14 g/mol  
**CAS NO.** 77-86-1  
**EINECS** 201-064-4  
**NC CODE** 2922 19 80  
**R:** 36/38  
**S:** 24/25-26



### Meets ACS Specifications

Assay (dry basis)	99.8-100.1%
Absorbance	passes test
Heavy Metals (as Pb)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Water (H <sub>2</sub> O)	max. 2%

PRODUCT NO.	PACKING	CONT. BOX
1414.0500	500 g	6
1414.1000	1 kg	6
1414.9050	50 kg	

1533

## Tris(hydroxymethyl)aminomethane

'BAKER'

▶  $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3$   
**M** = 121.14 g/mol  
**CAS NO.** 77-86-1  
**EINECS** 201-064-4  
**NC CODE** 2922 19 80  
**R:** 36/38  
**S:** 24/25-26



Assay	min. 99.5%
-------	------------

PRODUCT NO.	PACKING	CONT. BOX
1533.1000	1 kg	
1533.9025	25 kg	



## Tris (hydroxymethyl)aminomethane

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

4103

## Tris(hydroxymethyl)aminomethane hydrochloride

'BAKER ULTRAPURE BIOAGENT'

▶  $\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3 \cdot \text{HCl}$   
**M** = 157.60 g/mol  
**CAS NO.** 1185-53-1  
**EINECS** 201-064-4  
**NC CODE** 2922 19 90  
**R:** 36/38  
**S:** 24/25-26



### For Liquid Chromatography and Molecular Biology applications

Assay (dried basis)	min. 99.0%
Appearance	passes test
DNase Activity	none detected
Protease Activity	none detected
RNase Activity	none detected
Water (H <sub>2</sub> O)	max. 0.5%

### Absorbance of a 1 M Solution, Maximum (1-cm path vs water):

at 260 nm	0.06
at 280 nm	0.06
at 400 nm	0.01

### Trace Impurities (in ppm):

Calcium (Ca)	max. 1
Copper (Cu)	max. 1
Iron (Fe)	max. 1
Lead (Pb)	max. 1
Magnesium (Mg)	max. 1

PRODUCT NO.	PACKING	CONT. BOX
4103.0500	500 g	
4103.1000	1 kg	
4103.5000	5 kg	

2838

## Triton X100

'BAKER'

**M** = 646.87 g/mol  
**II** = 1.00 kg  
**CAS NO.** 9002-93-1  
**NC CODE** 3402 13 00  
**R:** 22-41  
**S:** 24-26-39



### (Alkylaryl Polyether Alcohol)

Color (APHA)	max. 60
Identification (by IR)	passes test

PRODUCT NO.	PACKING	CONT. BOX
2838.0500	500 ml	
2838.5000	5 l	



## Trolamine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Tromethamine, U.S.P.

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## L-Tryptophan

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Tungstophosphoric Acid n-Hydrate

crystal / 'BAKER ANALYZED'

1165

▶  $P_2O_5 \cdot 24WO_3 \cdot nH_2O$

**CAS NO.** 12501-23-4

**EINECS** 215-682-7

**NC CODE** 2811 19 80

**UN/ID NO.** 3260

**ADR/RID** 8 C2

**IMDG** 8/III

**R:** 34

**S:** 26-36/37/39-45



corrosive

### Meets Reagent Specifications for testing USP/NF monographs

Ammonium (NH <sub>4</sub> )	max. 0.005%
Chloride (Cl)	max. 0.03%
Heavy Metals (as Pb)	max. 0.005%
Insoluble Matter	max. 0.01%
Iron (Fe)	max. 0.003%
Nitrate (NO <sub>3</sub> )	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.02%

PRODUCT NO.	PACKING	CONT. BOX
1165.0125	125 g	

## Tween 20

'BAKER'

7374

1 l = 1.11 kg

**CAS NO.** 9005-64-5

**NC CODE** 3402 13 00

PRODUCT NO.	PACKING	CONT. BOX
7374.1000	1 l	

## Tween 80

'BAKER'

7394

1 l = 1.08 kg

**CAS NO.** 9005-65-6

**NC CODE** 3402 13 00

PRODUCT NO.	PACKING	CONT. BOX
7394.0500	500 ml	

## L-Tyrosine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## ULSI chemicals

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## UltraClear

HISTO GRADE

3905

**FLASHPOINT** > 62 °C

**CAS NO.** 90622-57-4

**EINECS** 292-459-0

**NC CODE** 2710 11 25

**R:** 65

**S:** 23-24-62



harmful

### Clearing agent for use in Histology and Cytology

Aromates (as Xylene) max. 60 ppm

PRODUCT NO.	PACKING	CONT. BOX
3905.2500	2.5 l Glass	
3905.5000	5 l	
3905.9010	10 l	
3905.9200	200 l	

A biodegradable paraffin clearing agent.  
Contains Hydrocarbons.

## UltraKitt

HISTO GRADE / Mounting Medium

3921

**NC CODE** 3822 00 00

### For use in Histology and Cytology

PRODUCT NO.	PACKING	CONT. BOX
3921.0500	500 ml Glass	
3921.0600	100 ml Glass x 6	

Mounting medium for coverslipping of slides.

## UltraPar (54-56°C)

3925 HISTO GRADE / Paraffin for histology

CAS NO. 8002-74-2  
NC CODE 271 22 01

PRODUCT NO.	PACKING	CONT. BOX
3925.5000	5 kg	

### Ultra pure acids

See for detailed information section Reagents for trace element analysis, page 21

### Ultryte chemicals

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

## n-Undecane

8271 'BAKER'

▶  $\text{CH}_2(\text{CH}_2)_9\text{CH}_3$  Assay (by GC) min. 99%  
**M** = 156.31 g/mol Boiling Point 195-196°C  
**II** = 0.74 kg  
**FLASHPOINT** 66 °C  
**CAS NO.** 1120-21-4  
**EINECS** 214-300-6  
**NC CODE** 2901 10 00  
**UN/ID NO.** 2330  
**ADR/RID** 3 F1  
**IMDG** 3/III

PRODUCT NO.	PACKING	CONT. BOX
8271.0500	500 ml	

## Uranin

See Fluorescein Disodium Salt

## Uranium 1000 µg/ml

5788 (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ U **Certificate Provided Reporting Actual Lot Analysis**  
 Uranium (U) 998-1002 µg/ml  
**M** = 238.03 g/mol  
**NC CODE** 3822 00 00  
**R:** 20/22-36/38  
**S:** 26-36



PRODUCT NO.	PACKING	CONT. BOX
5788.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Uranium 10000 µg/ml

5753 (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ U **Certificate Provided Reporting Actual Lot Analysis**  
 Uranium (U) 9980-10020 µg/ml  
**M** = 238.03 g/mol  
**NC CODE** 3822 00 00  
**R:** 23/25-33-36/38  
**S:** 26-36/39-45



PRODUCT NO.	PACKING	CONT. BOX
5753.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

*Innovation is principal to our business.*

## Urea

'BAKER ULTRAPURE BIOREAGENT' / For Protein Solubilization and Denaturation

4111

▶ NH <sub>2</sub> CONH <sub>2</sub>		Assay (NH <sub>2</sub> CONH <sub>2</sub> )	min. 99.5%	PRODUCT NO.	PACKING	CONT. BOX
<b>M =</b>	60.06 g/mol	Appearance	passes test	4111.0500	500 g	
<b>CAS NO.</b>	57-13-6	Biuret	max. 0.01%	4111.2500	2.5 kg	
<b>EINECS</b>	200-315-5	Conductivity of 8.5M Solution, μmho/cm	max. 30	4111.9012	12 kg	
<b>NC CODE</b>	3102 10 10	Cyanate (CNO)	none detected			
		DNase Activity	none detected			
		Insoluble Matter	max. 0.005%			
		Protease Activity	none detected			
		RNase Activity	none detected			
		Water (H <sub>2</sub> O)	max. 0.5%			
		<b>Absorbance of a 5M Solution (1-cm path vs water):</b>				
		at 260 nm	max. 0.05			
		at 280 nm	max. 0.03			
		<b>Trace Impurities (in ppm):</b>				
		Chloride (Cl)	max. 1			
		Copper (Cu)	max. 1			
		Iron (Fe)	max. 1			
		Lead (Pb)	max. 1			

## Urea

'BAKER ANALYZED' / ACS

0345

▶ NH <sub>2</sub> CONH <sub>2</sub>		<b>Meets ACS Specifications</b>		PRODUCT NO.	PACKING	CONT. BOX
<b>M =</b>	60.06 g/mol	Heavy Metals (as Pb)	max. 0.001%	0345.1000	1 kg	6
<b>CAS NO.</b>	57-13-6	Insoluble Matter	max. 0.01%	0345.9025	25 kg	
<b>EINECS</b>	200-315-5	Iron (Fe)	max. 0.001%			
<b>NC CODE</b>	3102 10 10	Melting Point	132-135°C.			
		Residue after Ignition	max. 0.01%			
		Sulfate (SO <sub>4</sub> )	max. 0.001%			
		<b>Trace Impurities (in ppm):</b>				
		Chloride (Cl)	max. 5			

## Urea

'BAKER'

0346

▶ NH <sub>2</sub> CONH <sub>2</sub>		Chloride (Cl)	max. 0.007%	PRODUCT NO.	PACKING	CONT. BOX
<b>M =</b>	60.06 g/mol	Heavy Metals (as Pb)	max. 0.002%	0346.1000	1 kg	6
<b>CAS NO.</b>	57-13-6	Insoluble in Alcohol	max. 0.04%	0346.9025	25 kg	
<b>EINECS</b>	200-315-5	Melting Range	132-135°C			
<b>NC CODE</b>	3102 10 10	Residue on Ignition	max. 0.1%			
		Sulfate (SO <sub>4</sub> )	max. 0.010%			

## Urea

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## L-Valine

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Vanadium 1000 μg/ml

(Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5789

▶ V		<b>Certificate Provided Reporting Actual Lot Analysis</b>		PRODUCT NO.	PACKING	CONT. BOX
<b>M =</b>	50.94 g/mol	Vanadium (V)	998-1002 μg/ml	5789.0100	100 ml	
<b>1 l =</b>	1.03 kg					
<b>NC CODE</b>	3822 00 00					
<b>EC NO.</b>	7 004 00 1					
<b>R:</b>	36/38					
<b>S:</b>	26					




irritant

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 μg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

# Vanad

## Vanadium 1000 µg/ml

6945 (Matrix: 0.5 M sulfuric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

		Vanadium (V)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
▶ V				6945.0100	100 ml	
	M = 50.94 g/mol			6945.0500	500 ml	
	NC CODE 3822 00 00					
	R: 36/38					
	S: 26					
	 Xi irritant					
				Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.		


## Vanadium 1000 µg/ml

6826 'BAKER ANALYZED' / Atomic Absorption Standard

		Vanadium (V)	998-1002 µg/ml	PRODUCT NO.	PACKING	CONT. BOX
▶ V				6826.0100	100 ml	
	M = 50.94 g/mol			6826.0500	500 ml	
	NC CODE 3822 00 00					
				Vanadium(V)oxide in sulfuric acid 0.5 mol/l.		



## Vanadium 10000 µg/ml

5754 (Matrix: 5% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

		<i>Certificate Provided Reporting Actual Lot Analysis</i>		PRODUCT NO.	PACKING	CONT. BOX
▶ V		Vanadium (V)	9980-10020 µg/ml	5754.0100	100 ml	
	M = 50.94 g/mol					
	1 l = 1.03 kg					
	NC CODE 3822 00 00					
	EC NO. 7 004 00 1					
	R: 34					
	S: 23-26-36-45					
	 C corrosive					
				Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.		

## Vanadium(V) Oxide

1217 'BAKER ANALYZED'

		Assay	min. 99.5%	PRODUCT NO.	PACKING	CONT. BOX
▶ V <sub>2</sub> O <sub>5</sub>		Iron (Fe)	max. 0.03%	1217.0100	100 g	
	M = 181.88 g/mol	Potassium (K)	max. 0.05%			
	CAS NO. 1314-62-1	Sodium (Na)	max. 0.02%			
	EINECS 215-239-8					
	NC CODE 2825 30 00					
	EC NO. 23 001 00 8					
	UN/ID NO. 2862					
	ADR/RID 6.1 T5					
	IMDG 6.1/II					
	R: 20/22-37-48/23-51/53-63-68					
	S: 36/37-38-45-61					
	 N dangerous for the environment					
	 T toxic					

*J.T.Baker: over 100 years of experience.*

*See chapter 1 of this catalogue.*



**Vanadium Pentoxide**

See Vanadium(V) Oxide

**Victoria Green**

See Malachite Green Oxalate

**Vinylbenzene**

See Styrene

**Vitamin C**

See L(+)-Ascorbic Acid

**VLSI chemicals**See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)**Water**

'BAKER ULTRA RESI-ANALYZED'

4219

▶ H<sub>2</sub>O

M = 18.01 g/mol

CAS NO. 7732-18-5

EINECS 231-791-2

NC CODE 2851 00 10

**Suitable for environmental inorganic and organic trace analysis**

Filtration Test	passes test
Residue after Evaporation	max. 2 ppm

**For Use in EPA Methods:**

Drinking Water	500 series
Inorganic Non-Metals	300 series
Metals	200 series
Solid Waste	846 series
Waste Water	600 series

**EPA Contract Lab Program:**

Inorganic Target Analytes (below CQRL)	passes test
--	-------------

**Volatile Organic Trace Analysis: Gas****Chromatography with Purge and Trap concentration (EPA Contract Required Quantitation Limit-CRQL):**

Electroconductivity Detection (ELCD), Below CRQL	passes test
Photoionization Detection (PID)	passes test
Total Organic Carbon (100 ppb max.)	passes test

PRODUCT NO.	PACKING	CONT. BOX
4219.4000	4 l Glass	4

Filtered through a 0.2 micron filter.  
Resistivity during production is 10 megohm-cm minimum at 25°C.

*The J.T.Baker CYCLE-TAINER  
High Purity Solvent Delivery System,  
preserves purity and protects people.*

*See chapter 3 of this catalogue for product details.*

**6906** **Water**  
ULTREX II Ultrapure Reagent

▶ H<sub>2</sub>O

**M** = 18.01 g/mol  
**CAS NO.** 7732-18-5  
**EINECS** 231-791-2  
**NC CODE** 2851 00 10

**Certificate Provided Reporting Actual Lot Analysis**

**Trace Impurities (in ppt) (pg/g):**

Aluminium (Al)	max. 20
Antimony (Sb)	max. 10
Arsenic (As)	max. 10
Barium (Ba)	max. 10
Beryllium (Be)	max. 10
Bismuth (Bi)	max. 10
Boron (B)	max. 50
Cadmium (Cd)	max. 10
Calcium (Ca)	max. 20
Cerium (Ce)	max. 10
Cesium (Cs)	max. 10
Chromium (Cr)	max. 10
Cobalt (Co)	max. 10
Copper (Cu)	max. 10
Dysprosium (Dy)	max. 1
Erbium (Er)	max. 1
Europium (Eu)	max. 1
Gadolinium (Gd)	max. 1
Gallium (Ga)	max. 10
Germanium (Ge)	max. 10
Gold (Au)	max. 10
Hafnium (Hf)	max. 1
Holmium (Ho)	max. 1
Indium (In)	max. 1
Iron (Fe)	max. 20
Lanthanum (La)	max. 1
Lead (Pb)	max. 10
Lithium (Li)	max. 10
Lutetium (Lu)	max. 1
Magnesium (Mg)	max. 10
Manganese (Mn)	max. 10
Mercury (Hg)	max. 20
Molybdenum (Mo)	max. 10
Neodymium (Nd)	max. 1
Nickel (Ni)	max. 10
Niobium (Nb)	max. 10
Palladium (Pd)	max. 10
Platinum (Pt)	max. 10
Potassium (K)	max. 10

Praseodymium (Pr)	max. 10
Rhenium (Re)	max. 10
Rhodium (Rh)	max. 10
Rubidium (Rb)	max. 10
Ruthenium (Ru)	max. 10
Samarium (Sm)	max. 10
Scandium (Sc)	max. 10
Selenium (Se)	max. 50
Silver (Ag)	max. 10
Sodium (Na)	max. 10
Strontium (Sr)	max. 10
Tantalum (Ta)	max. 10
Tellurium (Te)	max. 1
Terbium (Tb)	max. 10
Thallium (Tl)	max. 10
Thorium (Th)	max. 10
Thulium (Tm)	max. 10
Tin (Sn)	max. 50
Titanium (Ti)	max. 10
Tungsten (W)	max. 10
Vanadium (V)	max. 10
Ytterbium (Yb)	max. 10
Yttrium (Y)	max. 1
Zinc (Zn)	max. 10
Zirconium (Zr)	max. 10

**Trace Impurities in ppb (ng/g):**

Chloride (Cl)	max. 100
Phosphate (PO <sub>4</sub> )	max. 100
Sulfate (SO <sub>4</sub> )	max. 200

PRODUCT NO.	PACKING	CONT. BOX
6906.1000	1   PE	

**9823** **Water**  
BAKER ANALYZED LC-MS Reagent

▶ H<sub>2</sub>O

**M** = 18.01 g/mol  
**CAS NO.** 7732-18-5  
**EINECS** 231-791-2  
**NC CODE** 2851 00 10

**Certificate Provided Reporting Actual Lot Analysis**

Residue after Evaporation max. 1 ppm

**LC-Gradient-Diode Array Detection (a.u.), test solution is modified with 0.1% (v/v) formic acid:**  
at 254 nm max. 0.001

**LC-MS Gradient Suitability Test (TIC, 100 to 2000 m/z), test solution is modified with 0.1% (v/v) formic acid:**

Positive ESI-MS Sensitive Impurities (as Reserpine) max. 50 ng/ml

**Product Information (not specifications):**  
Density (g/ml) at 20°C 1.00

**Trace Impurities (in ppb):**

Aluminium (Al)	max. 50
Calcium (Ca)	max. 50
Iron (Fe)	max. 50
Magnesium (Mg)	max. 50
Potassium (K)	max. 50
Sodium (Na)	max. 50

PRODUCT NO.	PACKING	CONT. BOX
9823.1000PE	1   HDPE	6

Element concentrations are at time of lot release.

## Water

'BAKER HPLC ANALYZED' / HPLC Gradient Grade

4218

		PRODUCT NO.	PACKING	CONT. BOX
▶ H <sub>2</sub> O	M = 18.01 g/mol	4218.1000	1 l	6
	1 l = 1 kg	4218.2500	2.5 l	4
CAS NO.	7732-18-5			
EINECS	231-791-2			
NC CODE	2851 00 10			
Particulate Matter		max. 0.0001%		
Polarity Index		9.0		
Residue after Evaporation		max. 2 ppm		
Solvent Group		9		
<b>Ultraviolet Absorbance of largest eluted peak:</b>				
at 220 nm		max. 0.005 au		
at 254 nm		max. 0.001 au		

## Water

'BAKER ANALYZED'

4217

		PRODUCT NO.	PACKING	CONT. BOX
▶ H <sub>2</sub> O	M = 18.01 g/mol	4217.9020	20 l Polycube	
	CAS NO. 7732-18-5			
EINECS 231-791-2				
NC CODE 2851 00 10				
Ammonium (NH <sub>4</sub> )		max. 0.3 ppm		
Conductivity at 20°C		max. 5 µS/cm		
Heavy Metals (as Pb)		passes test		
pH at 25°C		5.0-7.0		
Residue after Evaporation		max. 10 ppm		
Substances Reducing KMnO <sub>4</sub>		passes test		
<b>Trace Impurities in ppb (ng/g):</b>				
Chloride (Cl)		max. 1 ppm		
Sulfate (SO <sub>4</sub> )		passes test		

## Water

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36


## Water Determination

See for detailed information section Karl Fischer reagents, page 195

## Water Standard I &amp; II

Matrix I : 5% nitric acid - Matrix II: 20% HCl / 'BAKER INSTRA-ANALYZED' / Plasma Standard

6122-01

		PRODUCT NO.	PACKING	CONT. BOX
NC CODE	3822 00 00	6122-01	100 ml x 2	
UN/ID NO.	2031			
ADR/RID	8.2b			
IMDG	8/II			
R:	34			
S:	23-26-36/37/39-45			
	corrosive			
<b>Kit contains one bottle of each solution</b>				
<b>Element Concentrations of Solution I (µg/ml):</b>				
Beryllium (Be)		5		
Cadmium (Cd)		5		
Cobalt (Co)		50		
Copper (Cu)		25		
Iron (Fe)		100		
Lead (Pb)		50		
Manganese (Mn)		50		
Nickel (Ni)		50		
Silver (Ag)		5		
Thallium (Tl)		200		
Zinc (Zn)		50		
<b>Element Concentrations of Solution II (µg/ml):</b>				
Aluminium (Al)		200		
Antimony (Sb)		50		
Arsenic (As)		200		
Barium (Ba)		200		
Chromium (Cr)		20		
Selenium (Se)		200		
Vanadium (V)		50		
For EPA Contract Laboratory Program (CLP). Traceable to NIST.				

## Wijs' Solution

See Iodine Solution

## Wood's Alloy

sticks / 'BAKER ANALYZED'

1219

		PRODUCT NO.	PACKING	CONT. BOX
CAS NO.	8049-22-7	1219.0500	500 g	
NC CODE	8106 00 90			
Bismuth (Bi)		49.0-51.0%		
Cadmium (Cd)		12.0-13.0%		
Lead (Pb)		24.5-25.5%		
Melting Point		70.0-74.0°C		
Tin (Sn)		12.0-13.0%		

# Wright

## Wright

**3816** Powder / Hematology / Oxidized Methylene Blue/Eosine Y Stain, suitable for staining blood smears

**CAS NO.** 68988-92-1  
**R:** 22-36  
**S:** 22-26-36



*Wrights stain for differetial blood picture staining*

PRODUCT NO.	PACKING	CONT. BOX
3816.0025	25 g Glass	

## Wright

**3878** Hematology

**1 l** = 0.79 kg  
**FLASHPOINT** 11C °C  
**UN/ID NO.** 1230  
**IMDG** 3.2/II  
**R:** 11-23/24/25-36-39/23/24/25  
**S:** 16-20-4-7/9



*Wrights stain for differetial blood picture staining*

PRODUCT NO.	PACKING	CONT. BOX
3878.1000	1 l	
3878.2500	2.5 l	

## Xylene

**9516** 'BAKER ANALYZED' / Ultraviolet Spectrophotometry

▶ C<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>  
**M** = 106.17 g/mol  
**1 l** = 0.86 kg  
**FLASHPOINT** 24 °C  
**CAS NO.** 1330-20-7  
**EINECS** 215-535-7  
**NC CODE** 2902 44 00  
**EC NO.** 601 022 00 9  
**UN/ID NO.** 1307  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20/21-38  
**S:** 25



Boiling Range (initial to dry point)	137-144°C
Color (APHA)	max. 10
Free Acid, µeq/g	max. 0.12
Residue after Evaporation	max. 0.001%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfur Compounds (as S)	max. 0.003%
Water (H <sub>2</sub> O)	max. 0.02%
<b>Ultraviolet Absorbance (1.00-cm path vs water):</b>	
at 295 nm	max. 1.00
at 300 nm	max. 0.30
at 330 nm	max. 0.05
at 380-400 nm	max. 0.01

PRODUCT NO.	PACKING	CONT. BOX
9516.1000	1 l	

Contains Ethylbenzene.

## Xylene

**8080** 'BAKER ANALYZED' / ACS

▶ C<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>  
**M** = 106.17 g/mol  
**1 l** = 0.86 kg  
**FLASHPOINT** 24 °C  
**CAS NO.** 1330-20-7  
**EINECS** 215-535-7  
**NC CODE** 2902 44 00  
**EC NO.** 601 022 00 9  
**UN/ID NO.** 1307  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20/21-38  
**S:** 25



<i>Exceeds ACS Specifications</i>	
Assay	min. 98.5%
Color (APHA)	max. 10
Ethylbenzene	max. 4%
Residue after Evaporation	max. 0.002%
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	passes test
Sulfur Compounds (as S)	max. 0.003%
Water (H <sub>2</sub> O)	max. 0.03%
<b>Trace Impurities (in ppm):</b>	
Aluminium (Al)	max. 0.5
Barium (Ba)	max. 0.1
Boron (B)	max. 0.02
Cadmium (Cd)	max. 0.05
Calcium (Ca)	max. 0.5
Chromium (Cr)	max. 0.02
Cobalt (Co)	max. 0.02
Copper (Cu)	max. 0.02
Iron (Fe)	max. 0.1
Lead (Pb)	max. 0.1
Magnesium (Mg)	max. 0.1
Manganese (Mn)	max. 0.02
Nickel (Ni)	max. 0.02
Tin (Sn)	max. 0.1
Zinc (Zn)	max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
8080.1000	1 l	6
8080.2500	2.5 l	4
8080.5000	5 l EcoTainer	4
8080.9025	25 l	4
8080.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab. For safe handling of 25 l tin cans, see Self-closing tap.

Contains Ethylbenzene.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Xylene

'BAKER'

8118

▶ $C_8H_4(CH_3)_2$	Assay	min. 98%
<b>M</b> = 106.17 g/mol	Appearance	passes test
<b>1 l</b> = 0.86 kg	Color	max. 10

**FLASHPOINT** 24 °C  
**CAS NO.** 1330-20-7  
**EINECS** 215-535-7  
**NC CODE** 2902 44 00  
**EC NO.** 601 022 00 9  
**UN/ID NO.** 1307  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20/21-38  
**S:** 25



PRODUCT NO.	PACKING	CONT. BOX
8118.1000	1 l	6
8118.2500	2.5 l	4
8118.5000	5 l EcoTainer	4
8118.9025	25 l	4
8118.9200	200 l	

EcoTainer, the metal solvent can for more safety in the lab.  
For safe handling of 25 l tin cans, see Self-closing tap.

## Xylene

HISTO GRADE

3410

▶ $C_8H_4(CH_3)_2$	Benzene	max. 0.02%
<b>M</b> = 106.17 g/mol		
<b>1 l</b> = 0.86 kg		

**FLASHPOINT** 24 °C  
**CAS NO.** 1330-20-7  
**EINECS** 215-535-7  
**NC CODE** 2902 44 00  
**EC NO.** 601 022 00 9  
**UN/ID NO.** 1307  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20/21-38  
**S:** 25



PRODUCT NO.	PACKING	CONT. BOX
3410.2500PE	2.5 l HDPE	
3410.5000PE	5 l HDPE	
3410.9010	10 l	
3410.9025	25 l	

Histo-Grade implicates that this reagent is specially tested and therefore solely intended for use in histo-pathology applications. This reagent is of an analytical quality.

## m-Xylene

'BAKER'

8146

▶ $C_8H_4(CH_3)_2$	Assay (by GC)	min 99%
<b>M</b> = 106.17 g/mol	Boiling Point	138-140°C
<b>1 l</b> = 0.86 kg		

**FLASHPOINT** 25 °C  
**CAS NO.** 108-38-3  
**EINECS** 203-576-3  
**NC CODE** 2902 42 00  
**EC NO.** 601 022 00 9  
**UN/ID NO.** 1307  
**ADR/RID** 3 F1  
**IMDG** 3/III  
**R:** 10-20/21-38  
**S:** 25



PRODUCT NO.	PACKING	CONT. BOX
8146.1000	1 l	

[www.jtbaker.com/europe](http://www.jtbaker.com/europe)

8147

## o-Xylene

'BAKER'

▶  $C_8H_{10}(CH_3)_2$   
**M** = 106.17 g/mol  
**II** = 0.88 kg  
**FLASHPOINT** 30 °C  
**CAS NO.** 95-47-6  
**EINECS** 202-422-2  
**NC CODE** 2902 41 00  
**EC NO.** 601 038 00 6  
**UN/ID NO.** 1307  
**ADR/RID** 3 F1  
**IMDG** 3/II  
**R:** 10-20/21-38  
**S:** 25



Assay (by GC) min. 98%  
 Boiling Point 144-145°C

PRODUCT NO.	PACKING	CONT. BOX
8147.1000	1 l	

### Xylene MOS, VLSI Grade

See for detailed information section Microelectronic materials page 32 or the website [www.jtbaker.com/micro](http://www.jtbaker.com/micro)

### Xylene replacement for Histology

See UltraClear

### Xylene replacement for Histology

See for detailed information [www.jtbaker.com](http://www.jtbaker.com) and select Clinical

1421

## Xylenol Orange Tetrasodium Salt

'BAKER ANALYZED' / ACS

▶  $C_{31}H_{32}N_2O_{13}S$  (asAcid)  
**M** = 672.67 g/mol  
**CAS NO.** 1611-35-4  
**EINECS** 216-553-8  
**NC CODE** 2934 30 90

**Meets ACS Specifications**  
 Clarity of Solution passes test  
 Suitability for Zinc titration passes test

PRODUCT NO.	PACKING	CONT. BOX
1421.0001	1 g	

1565

## D(+)-Xylose

'BAKER ANALYZED' Biochemical

▶  $C_5H_{10}(CHOH)_3CHO$   
**M** = 150.13 g/mol  
**CAS NO.** 58-86-6  
**EINECS** 200-400-7  
**NC CODE** 2940 00 00

**Meets NAS/NRC Specifications and Criteria for Biochemical Compounds**  
 Heavy Metals (as Cu) max. 0.001%  
 Loss on Drying at 105°C max. 0.15%  
 Residue after Ignition max. 0.05%  
 Specific Rotation  $[\alpha]_D^{20}$  (dried basis), c=4 in water) + 18.2° to + 19.4°  
**Trace Impurities (in ppm):**  
 Arsenic (As) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
1565.0100	100 g	

5790

## Yttrium 1000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Y  
**M** = 88.91 g/mol  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



**Certificate Provided Reporting Actual Lot Analysis**  
 Yttrium (Y) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5790.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Yttrium 10000 µg/ml

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5755

▶ Y

**M** = 88.91 g/mol  
**1 l** = 1.03 kg  
**NC CODE** 3822 00 00  
**R:** 36/38  
**S:** 26-37



## Certificate Provided Reporting Actual Lot Analysis

Yttrium (Y) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5755.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Zinc

Granular 2 mm / 'BAKER ANALYZED' / ACS

0351

▶ Zn

**M** = 65.37 g/mol  
**CAS NO.** 7440-66-6  
**EINECS** 231-175-3  
**NC CODE** 7901 12 30  
**EC NO.** 30 001 00 1

## Exceeds ACS Specifications

Assay min. 99.8%  
 Iron (Fe) (by AAS) max. 0.01%  
 Lead (Pb) (by AAS) max. 0.01%  
 Suitability for determination of arsenic passes test  
**Trace Impurities (in ppm):**  
 Arsenic (As) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
0351.0500	500 g	

## Zinc

Granular 0.84 mm / 'BAKER ANALYZED' / ACS

0352

▶ Zn

**M** = 65.37 g/mol  
**CAS NO.** 7440-66-6  
**EINECS** 231-175-3  
**NC CODE** 7901 12 30  
**EC NO.** 30 001 00 1

## Exceeds ACS Specifications

Assay min. 99.8%  
 Iron (Fe) (by AAS) max. 0.01%  
 Lead (Pb) (by AAS) max. 0.01%  
 Suitability for determination of arsenic passes test  
**Trace Impurities (in ppm):**  
 Arsenic (As) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
0352.0500	500 g	
0352.9025	25 kg	

## Zinc

Granular 0.42 mm (40 Mesh) / 'BAKER ANALYZED' / ACS

0354

▶ Zn

**M** = 65.37 g/mol  
**CAS NO.** 7440-66-6  
**EINECS** 231-175-3  
**NC CODE** 7901 12 30  
**EC NO.** 30 001 00 1

## Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs

Assay (by EDTA titrn.) min. 99.8%  
 Iron (Fe) max. 0.01%  
 Lead (Pb) max. 0.01%  
 Suitability for Arsenic Determination passes test  
**Mesh:**  
 On U.S. No. 40 Sieve max. 5%  
 Thru U.S. Sieve No. 70 max. 30%  
**Trace Impurities (in ppm):**  
 Arsenic (As) max. 0.1

PRODUCT NO.	PACKING	CONT. BOX
0354.0500	500 g	

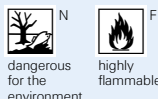
## Zinc

Powder / 'BAKER'

0356

▶ Zn

**M** = 65.37 g/mol  
**CAS NO.** 7440-66-6  
**EINECS** 231-175-3  
**NC CODE** 7901 12 30  
**EC NO.** 30 001 00 1  
**UN/ID NO.** 1436  
**ADR/RID** 4.3 WS  
**IMDG** 4.3/II  
**R:** 15-17-50/53  
**S:** 43A-46-60-61



Assay (by EDTA titrn.) min. 98%  
 Nitrogen Compounds (as N) max. 0.002%  
**Trace Impurities (in ppm):**  
 Arsenic (As) max. 0.5

PRODUCT NO.	PACKING	CONT. BOX
0356.1000	1 kg	

# Zinc

## Zinc 1000 µg/ml

5791 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Zn

**M** = 65.39 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37-60



**Certificate Provided Reporting Actual Lot Analysis**

Zinc (Zn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5791.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Zinc 1000 µg/ml

6946 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Atomic Absorption Standard

▶ Zn

**M** = 65.39 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



Zinc (Zn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6946.0100	100 ml	
6946.0500	500 ml	

Prepared by dissolution of high purity raw materials (min. 99.99% spectral purity). Assays are verified by ICP against standards traceable to NIST. Standard Reference Material numbers (SRM) are printed on each label.

## Zinc 1000 µg/ml

6827 'BAKER ANALYZED' / Atomic Absorption Standard

▶ Zn

**M** = 65.39 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26-37



Zinc (Zn) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
6827.0100	100 ml	
6827.0500	500 ml	

Zinc nitrate in nitric acid 0.5 mol/l.

## Zinc 10000 µg/ml

5756 (Matrix: 2% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Zn

**M** = 65.39 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26



**Certificate Provided Reporting Actual Lot Analysis**

Zinc (Zn) 9980-10020 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5756.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2%. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

## Zinc Acetate Dihydrate

0357 'BAKER ANALYZED' / ACS

▶ Zn(CH<sub>3</sub>COO)<sub>2</sub>·2H<sub>2</sub>O

**M** = 219.49 g/mol  
**CAS NO.** 5970-45-6  
**EINECS** 209-170-2  
**NC CODE** 2915 29 00  
**R**: 22  
**S**: 25



**Exceeds ACS Specifications**

Assay	99.0-101.0%
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 5 ppm
Insoluble Matter	max. 0.005%
Iron (Fe)	max. 5 ppm
Lead (Pb)	max. 0.002%
Magnesium (Mg)	max. 0.005%
pH of 5% Solution at 25°C	6.0-7.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfate (SO <sub>4</sub> )	max. 0.002%

PRODUCT NO.	PACKING	CONT. BOX
0357.0500	500 g	6
0357.9050	50 kg	



## Zinc Bromide

granular / 'BAKER ANALYZED'

6123

▶ ZnBr<sub>2</sub>

**M** = 225.18 g/mol  
**CAS NO.** 7699-45-8  
**EINECS** 231-718-4  
**NC CODE** 2827 59 00  
**UN/ID NO.** 3077  
**ADR/RID** 9 M7  
**IMDG** 9/III  
**R:** 34  
**S:** 26-36/37/39-45-7/8



Alkalies and Earths	max. 0.2%
Bromide (Br)	69.5-71.0%
Insoluble in HCl	max. 0.005%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.005%
Sulfate (SO <sub>4</sub> )	max. 0.01%

PRODUCT NO.	PACKING	CONT. BOX
6123.0500	500 g	

## Zinc Carbonate

powder / 'BAKER ANALYZED'

4312

▶ Zn(CO<sub>3</sub>)<sub>2</sub>

**M** = 185.39 g/mol  
**CAS NO.** 3486-35-9  
**NC CODE** 2836 99 18

Assay	min. 70.0%
Average Particle Diameter, μm (APD) (by Sedigraph)(typical)	act value reported
Bulk Density (g/cc)(typical)	act value reported
Calcium (Ca)	act value reported
Chloride (Cl)	max. 0.002%
Insoluble in H <sub>2</sub> SO <sub>4</sub>	max. 0.02%
Iron (Fe)	max. 0.002%
Lead (Pb)	max. 0.005%
Nitrate (NO <sub>3</sub> )	max. 0.005%
Silicon (Si)	act value reported
Sodium (Na)	act value reported
Specific Surface Area, m <sup>2</sup> /g (typical)	act value reported
Substances not Precipitated by (NH <sub>4</sub> ) <sub>2</sub> S (as SO <sub>4</sub> )	max. 0.40%
Sulfate (SO <sub>4</sub> )	max. 0.01%
<b>Mesh (Wet Screen Analysis):</b>	
On U.S. No. 325 Sieve	act value reported

PRODUCT NO.	PACKING	CONT. BOX
4312.0500	500 g	

## Zinc Chloride

Lump / 'BAKER ANALYZED'

0359

▶ ZnCl<sub>2</sub>

**M** = 136.28 g/mol  
**CAS NO.** 7646-85-7  
**EINECS** 231-592-0  
**NC CODE** 2827 36 00  
**EC NO.** 30 003 00 2  
**UN/ID NO.** 2331  
**ADR/RID** 8 C2  
**IMDG** 8/III  
**R:** 22-34-50/53  
**S:** 26-36/37/39-45-60-61




Assay	97.0-100.5%
Alkalies and Alkaline Earths	max. 1.0%
Ammonium salts	passes test
Identification	passes test
Lead (Pb)	max. 0.005%
Organic Volatile Impurities (1)	passes test
Oxychloride	passes test
Solution Test	passes test
Sulfate (SO <sub>4</sub> )	max. 0.03%

PRODUCT NO.	PACKING	CONT. BOX
0359.0500	500 g	

*Innovation is principal to our business.*

## Zinc Chloride

0360 'BAKER'



<p>▶ ZnCl<sub>2</sub></p> <p><b>M</b> = 136.28 g/mol</p> <p><b>CAS NO.</b> 7646-85-7</p> <p><b>EINECS</b> 231-592-0</p> <p><b>NC CODE</b> 2827 36 00</p> <p><b>EC NO.</b> 30 003 00 2</p> <p><b>UN/ID NO.</b> 2331</p> <p><b>ADR/RID</b> 8 C2</p> <p><b>IMDG</b> 8/III</p> <p><b>R:</b> 34</p> <p><b>S:</b> 28-45-7/8</p> <p> C corrosive</p>	Assay	min. 97.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Insoluble Matter	max. 0.1%	0360.1000	1 kg	
	Lead (Pb)	max. 0.01%	0360.9050	50 kg	
	pH of 5% Solution at 25°C	5.5-7.0			

## Zinc Chloride

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36



## Zinc Nitrate Hexahydrate

0362 'BAKER ANALYZED'

<p>▶ Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O</p> <p><b>M</b> = 297.47 g/mol</p> <p><b>CAS NO.</b> 10196-18-6</p> <p><b>EINECS</b> 231-943-8</p> <p><b>NC CODE</b> 2834 29 80</p> <p><b>UN/ID NO.</b> 1514</p> <p><b>ADR/RID</b> 5.1 02</p> <p><b>IMDG</b> 5.1/II</p> <p><b>R:</b> 22-36/37/38-8</p> <p><b>S:</b> 24/25-26</p> <p> Xn harmful</p> <p> O oxidizing</p>	Assay (by EDTA titrn.)	99.0-101.0%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
	Chloride (Cl)	max. 0.002%	0362.1000	1 kg	
	Insoluble Matter	max. 0.005%	0362.7100	100 lbs	
	Lead (Pb)	max. 0.005%	0362.9025	25 kg	
	pH of 5% Solution at 25°C	3.5-5.5			
	Sulfate (SO <sub>4</sub> )	max. 0.005%			
	<b>Trace Impurities (in ppm):</b>				
	Copper (Cu)	max. 5			
	Iron (Fe)	max. 5			

## Zinc Nitrate Hexahydrate

1795 'BAKER'

<p>▶ Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O</p> <p><b>M</b> = 297.47 g/mol</p> <p><b>CAS NO.</b> 10196-18-6</p> <p><b>EINECS</b> 231-943-8</p> <p><b>NC CODE</b> 2834 29 80</p> <p><b>UN/ID NO.</b> 1514</p> <p><b>ADR/RID</b> 5.1 02</p> <p><b>IMDG</b> 5.1/II</p> <p><b>R:</b> 22-36/37/38-8</p> <p><b>S:</b> 24/25-26</p> <p> Xn harmful</p> <p> O oxidizing</p>	Assay	99-101%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			1795.1000	1 kg	

## Zinc Nitrate solution

7476 10% in H<sub>2</sub>O / 'BAKER ANALYZED'

<p>▶ Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O</p> <p><b>CAS NO.</b> 7779-88-6</p> <p><b>EINECS</b> 231-943-8</p> <p><b>NC CODE</b> 2834 29 90</p>	Assay	9.7 - 10.7%	<b>PRODUCT NO.</b>	<b>PACKING</b>	<b>CONT. BOX</b>
			7476.9020	20 l Polycube	

Volumetric Solution, ready for use.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Zinc Oxide

'BAKER ANALYZED' / ACS

0363

▶ ZnO

**M** = 81.37 g/mol  
**CAS NO.** 1314-13-2  
**EINECS** 215-222-5  
**NC CODE** 2817 00 00  
**R:** 50/53  
**S:** 60-61



dangerous  
for the  
environment

**Exceeds ACS Specifications**

Assay	min. 99.0%
Alkalinity	passes test
Arsenic (As)	max. 2 ppm
Calcium (Ca)	max. 0.005%
Chloride (Cl)	max. 0.001%
Insoluble in Dilute H <sub>2</sub> SO <sub>4</sub>	max. 0.01%
Iron (Fe)	max. 0.001%
Lead (Pb)	max. 0.005%
Magnesium (Mg)	max. 0.005%
Nitrate (NO <sub>3</sub> )	max. 0.003%
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%
Sulfur Compounds (as SO <sub>4</sub> )	max. 0.01%

**Trace Impurities (in ppm):**

Manganese (Mn)	max. 5
----------------	--------

PRODUCT NO.	PACKING	CONT. BOX
0363.1000	1 kg	
0363.9050	50 kg	

## Zinc Oxide

'BAKER'

0364

▶ ZnO

**M** = 81.37 g/mol  
**CAS NO.** 1314-13-2  
**EINECS** 215-222-5  
**NC CODE** 2817 00 00  
**R:** 50/53  
**S:** 60-61



dangerous  
for the  
environment

Assay	99.0-100.5%
Alkalinity	passes test
Arsenic (As)	max. 5 ppm
Cadmium (Cd)	max. 10 ppm
Carbonates and Substances Insoluble in Acids	passes test
Identification	passes test
Iron (Fe)	max. 200 ppm
Lead (Pb)	max. 50 ppm
Loss on Ignition	max. 1.0%

PRODUCT NO.	PACKING	CONT. BOX
0364.1000	1 kg	

## Zinc Oxide

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Zinc Stearate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Zinc Sulfate Heptahydrate

'BAKER ANALYZED' / ACS

0365

▶ ZnSO<sub>4</sub>·7H<sub>2</sub>O

**M** = 287.54 g/mol  
**CAS NO.** 7446-20-0  
**EINECS** 231-793-3  
**NC CODE** 2833 26 00  
**EC NO.** 30 006 00 9  
**R:** 36/38-50/53  
**S:** 22-25-60-61



dangerous  
for the  
environment



irritant

**Exceeds ACS Specifications**

Assay	99.0-103.0%
Ammonium (NH <sub>4</sub> )	max. 0.001%
Calcium (Ca)	max. 0.005%
Insoluble Matter	max. 0.01%
Lead (Pb)	max. 0.003%
Magnesium (Mg)	max. 0.005%
Nitrate (NO <sub>3</sub> )	max. 0.002%
pH of 5% Solution at 25°C	4.4-6.0
Potassium (K)	max. 0.01%
Sodium (Na)	max. 0.05%

**Trace Impurities (in ppm):**

Chloride (Cl)	max. 5
Iron (Fe)	max. 5
Manganese (Mn)	max. 3

PRODUCT NO.	PACKING	CONT. BOX
0365.0100	100 g	
0365.1000	1 kg	
0365.9050	50 kg	

## Zinc Sulfate Heptahydrate

1796 'BAKER'

▶ ZnSO<sub>4</sub>·7H<sub>2</sub>O

**M** = 287.54 g/mol  
**CAS NO.** 7446-20-0  
**EINECS** 231-793-3  
**NC CODE** 2833 26 00  
**EC NO.** 30 006 00 9  
**R:** 36/38-50/53  
**S:** 22-25-60-61



Assay	99.0-104.0%
Acidity	passes test
Alkalies and Alkaline Earths	max. 0.9%
Appearance of solution	passes test
Arsenic (As)	passes test
Chloride (Cl)	max. 300 ppm
Iron (Fe)	max. 100 ppm
Identification	passes test
Lead (Pb)	max. 0.002%
pH	4.4-5.6

PRODUCT NO.	PACKING	CONT. BOX
1796.1000	1 kg	

Preserve in tight containers.

## Zinc Sulfate, 7-Hydrate

See for qualities meeting the requirements of cGMP, USP/NF, BP/Ph.Eur, JP or FCC, page 36

## Zinc Sulfate

7254 0.1 mol/l / 'BAKER ANALYZED'

▶ ZnSO<sub>4</sub>·7H<sub>2</sub>O

**M** = 287.54 g/mol  
**1 l** = 1.02 kg  
**CAS NO.** 7446-20-0  
**EINECS** 231-793-3  
**NC CODE** 2833 26 00  
**R:** 51/53  
**S:** 57



Titer (mol/l) 0.0995-0.1005

PRODUCT NO.	PACKING	CONT. BOX
7254.1000	1 l	6
7254.9010	10 l	

## Zinc Sulfate

7218 0.05 mol/l / 'BAKER ANALYZED'

**CAS NO.** 7733-02-0  
**EINECS** 231-793-3  
**NC CODE** 2833 26 00

Titer (mol/l) 0.0495 - 0.0505

PRODUCT NO.	PACKING	CONT. BOX
7218.9020	20 l Polycube	

Volumetric Solution, ready for use.

## Zinc Sulfate

4874 0.1 mol/l / DILUT-IT

**1 l** = 1.16 kg  
**CAS NO.** 7446-20-0  
**NC CODE** 2833 26 00

PRODUCT NO.	PACKING	CONT. BOX
4874	1 amp.	

Volumetric Concentrate, for dilution to 1 l.

## Zirconium 1000 µg/ml

5792 (Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

▶ Zr

**M** = 91.22 g/mol  
**NC CODE** 3822 00 00

**Certificate Provided Reporting Actual Lot Analysis**  
 Zirconium (Zr) 998-1002 µg/ml

PRODUCT NO.	PACKING	CONT. BOX
5792.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within ± 0.2%. Typically 1000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Zirconium 10000 µg/ml**

(Matrix: 1% nitric acid) / 'BAKER INSTRA-ANALYZED' / Plasma Standard

5757

▶ Zr

**M** = 91.22 g/mol  
**NC CODE** 3822 00 00  
**R**: 36/38  
**S**: 26


**Certificate Provided Reporting Actual Lot Analysis**

Certificate Provided Reporting Actual Lot Analysis	
Zirconium (Zr)	9980-10020 µg/ml

**PRODUCT PACKING**

PRODUCT NO.	PACKING	CONT. BOX
5757.0100	100 ml	

Prepared from the highest purity raw material available, generally greater than 99.999% spectral purity. The content of the solution is confirmed to be accurate to within 0.2 %. Typically 10000 µg/ml. The certificate of analysis provided reports actual lot analysis. The certificate also lists the trace impurities.

*Mallinckrodt Baker's cGMP Manufactured Chemicals for the Biopharmaceutical industry are a necessity for uncomplicated scale-up.*

*See chapter 6 of this catalogue.*



# HPLC solvents and reagents

## Liquid Chromatography (HPLC)

### Fields of application for

#### J.T. Baker HPLC solvents

- Pharmaceutical / vitamins
- Food / drinks / beverages / flavours / wine
- Water / environment
- Petrochemistry
- Biology / biochemistry
- Cosmetics
- Paints / lacquers / solvents
- Other chemical industries

### We offer a complete product line:

- LC/MS solvents and reagents
- HPLC solvents
- HPLC acids
- HPLC buffer salts
- HPLC ion pair reagents

### Quality definition of HPLC Acetonitrile, Methanol and Water

In analytical and preparative HPLC, acetonitrile, methanol and water are the most common and most critical mobile phases. Mallinckrodt Baker has an extensive HPLC solvent and reagent program. As an example, acetonitrile and water qualities versus the most common applications are represented on the next page.

Acetonitrile HPLC qualities versus applications	Preparative HPLC	Isocratic Grade HPLC	Far UV HPLC	Gradient elution 254 nm	Gradient elution 210 nm	Protein profiling	Pesticide Analysis	PAH analysis	Proteomics and LC/MS application
9821 LC/MS Grade									
9017 Ultra Gradient Grade									
9012 Far UV/Gradient Grade									
8275 Isocratic Grade									

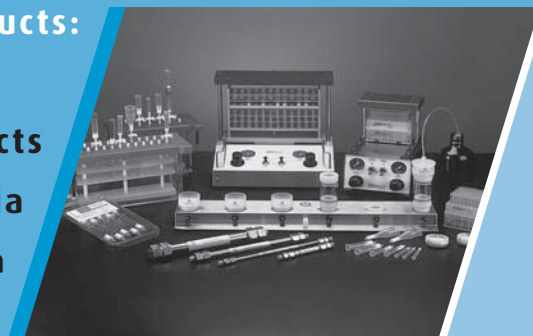
Methanol HPLC qualities versus applications	Preparative HPLC	Isocratic Grade HPLC	Gradient elution 254 nm	Proteomics and LC/MS application
9822 LC/MS Grade				
8402 Gradient Grade				
8404 Isocratic Grade				

Water HPLC qualities versus applications	Preparative HPLC	Isocratic Grade HPLC	Gradient elution 254 nm	Gradient elution 210 nm	Proteomics and LC/MS application
9823 LC/MS Grade					
4218 Gradient Grade					

Check our extensive BAKER ANALYZED HPLC and LC/MS solvent and reagent program at [www.jtbaker.com](http://www.jtbaker.com)

**Chromatography products:**

**Solid-Phase Extraction Products**  
**BAKERBOND Columns and Media**  
**Biochromatography Products and Media**





# Solid-Phase Extraction Products



As a key to successful sample preparation, we offer a wide range of **silica and polymer based Solid-Phase Extraction (SPE) products** – traditional **BAKERBOND spe columns** and innovative **BAKERBOND Speedisk columns and disks**.

Following the demands in research and development for purity, as well as for improved detection and quantification limits in analytical techniques, we provide the market with a variety of J.T.Baker SPE products with guaranteed uniformity and reproducibility.

## Silica and Polymer based SPE products

### Silica based products

Mallinckrodt Baker carefully defines and controls critical surface chemistry parameters to ensure performance consistency. Our knowledge and experience have led to the development of a wide range of silica products - endcapped offering high hydrolytic stability and non-endcapped, used in extraction of more polar analytes. SPE silica-based sorbents provide predictable and consistent extractions for discrete subsets of a broad range of sample types. Mixed-mode sorbents are recommended for the extraction of compounds from more complex matrices. Our product range includes weak and strong cation and anion exchange sorbents.

### Polymer based products

Among the wide range of SPE sorbents, Mallinckrodt Baker offers you polymeric sorbents that will improve the recovery of your sample preparation:

- BAKERBOND spe SDB phases that have large surface area, are highly rigid and stable over the whole pH range and involve surface-modified polymeric sorbents with different functionalities (ion-exchange moiety).

- BAKERBOND *Speedisk* polymer columns that feature BAKER polymer resins which are the product of J.T.Baker ultra-clean polymer micro particle technology. These patented polymeric sorbents are available in hydrophilic and hydrophobic forms as well as mixed mode ion exchangers. They are stable over pH 1-14 and highly recommended when advanced detection methods have to be used, offering the unique properties of a polymer.

### Silica and polymer based SPE products are applicable in different chromatographic modes:

- reverse phase
- normal phase
- ion exchange
- mixed-mode sorbents
- adsorption sorbents
- SPE columns for proteins and polynucleotides
- application related SPE columns

### The family of SPE products includes:

- BAKERBOND spe Columns
- BAKERBOND *Speedisk* Columns
- BAKERBOND *Speedisk* 96 Columns
- BAKERBOND *Speedisk* 96-Well Plate
- BAKERBOND *Speedisk* Extraction Disks

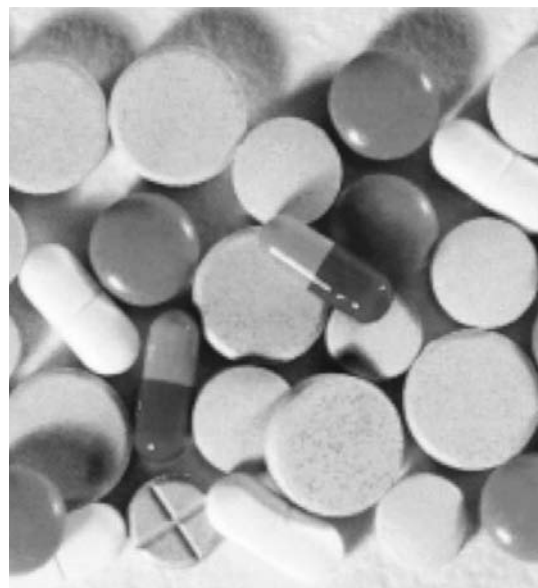
**Application related BAKERBOND spe and BAKERBOND Speedisk columns:**

*Extraction columns for drugs of abuse testing*

Narc-1 columns are specifically formulated for rapid, reproducible extraction of  $\Delta^9$ THC-carboxylic acid from urine using a unique, patented carboxy ester bonded phase.

Narc-1 has a high selectivity for  $\Delta^9$ THC-carboxylic acid and provides highly consistent recoveries without co-extracting many other commonly used drugs.

Narc-2 columns are mixed mode SPE phases ( $C_8$ /Strong Cation Exchanger) for the extraction of basic compounds, for instance in important drug screening extractions of opiates, LSD, phencyclidine, amine-based drugs, cocaine, et cetera. Narc-2 can be used for basic drug screening, as well as acidic/neutral drugs.



*Extraction columns for PAH applications*

For the extraction and clean-up of Polycyclic Aromatic Hydrocarbons (PAH's), including the 16-priority pollutant EPA PAHs the J.T.Baker brand offers several applications using different SPE columns with combination (double) phases:

- for example BAKERBOND spe PAH SOIL (500 mg Cyano/1000mg SiOH) is designed for the clean-up of PAHs in soil extracts
- for example BAKERBOND spe PAH AQUA (1000 mg  $C_{18}$  / 500 mg  $NH_2$ ) is designed for the extraction of PAHs from water (DIN 38407)



*Extraction columns for PCB applications*

For the extraction and clean up of PCBs Mallinckrodt Baker designed two different columns:

- for example BAKERBOND spe PCB-N, (500mg  $Ar-SO_3$  / 500 mg SiOH) for the extraction of PCBs from oil (DIN 51527, part 1)
- for example BAKERBOND spe PCB-A (500 mg SiOH/ $H_2SO_4$  / 500 mg  $Ar-SO_3$ ) in combination with BAKERBOND spe Silica Gel, for the extraction of PCBs in oil (dirty samples)

- for example BAKERBOND spe (500 mg  $C_{18}$  / 200 mg SDB-1)
- for example BAKERBOND spe (250 mg  $C_{18}$  Polar Plus / 100 mg SDB-1)

*Extraction column for Acrylamide applications*

For the extraction and purification of organic compounds such as acrylamide and other polar compounds we developed a spherical activated carbon:

- for example BAKERBOND spe Carbon, (6 ml/1000 mg)

*Extraction columns for Mineral Oil Index application*

For the clean up of extracts of mineral oil Mallinckrodt Baker has exclusively developed several new products which are tested according to ISO 9377-2 including ready to use SPE glass columns (packed with Florisil at bottom and Sodium Sulfate on top)

- for example BAKERBOND spe Clean-up Column (2000 mg  $Na_2SO_4$  / 2000 mg Florisil)

*Extraction columns for Pesticides applications*

For the extraction of pesticides from water, we designed the following double phase column:

More comprehensive application related information can be found at: <http://www.jtbaker.com/europe/techlib/default.asp>

## BAKERBOND spe and BAKERBOND Speedisk

### BAKERBOND spe

With BAKERBOND spe columns, silica and polymer based, you can choose the solid phase extraction column that best fits your sample size, performance requirements and equipment.

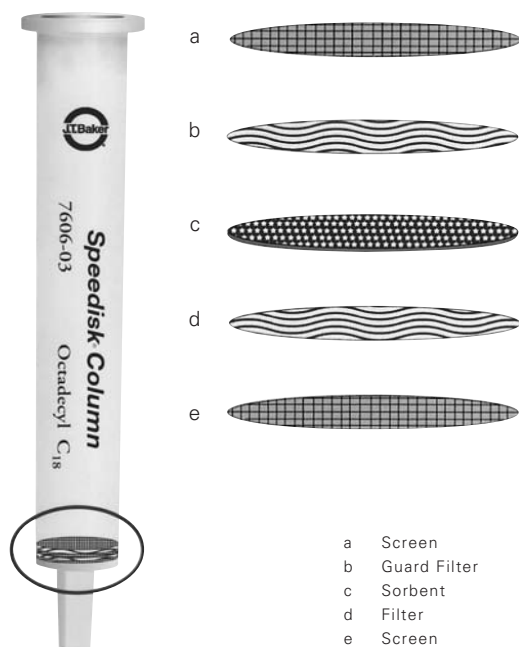
Use standard BAKERBOND spe 1, 3, 6 and 8 ml columns round rimmed and ear shaped, in different types of column housing (ultraclean polypropylene and glass). Selected standard columns and wide-mouth columns are available in a foil-lined fibre drum called the Jumbo Pack. The columns are loose packed in the foil liner to eliminate the inconvenience of opening individual pouches. In addition, Jumbo Packs provide cost savings compared to the standard package.

### BAKERBOND Speedisk - High Performance SPE

The new *Speedisk* column for solid phase extraction features BAKERBOND HPLC particle chemistry that permits rapid, efficient separation without sacrificing capacity.

*Speedisk* columns:

- run 9 times faster than traditional SPE columns
- eliminate or shorten pre-filtration and evaporation steps.



Featuring a unique laminar configuration, *Speedisk* columns:

- operate with smaller solvent volumes and
- have higher capacity per milligram sorbent than conventional SPE columns.



The *Speedisk* design:

- shortens analysis times
- increases capacity and
- may eliminate pre-filtration and evaporation steps.

Columns come in 1 ml, 3 ml or 6 ml sizes, and are filled to levels from 10 mg to 200 mg with a choice of over 20 BAKERBOND sorbents.

### Speedisk 96 Columns



*Speedisk 96* Columns raise high throughput SPE to one level higher performance. 96 "rimless" *Speedisk* Columns are inserted in a *Speedisk 96* Column Holder and the disposable assembly is ready out of the box for placement on a microplate processor such as the *Speedisk 96* Processor.

### Speedisk 96-Well Plate



Once method development is complete, use the *Speedisk 96*-well plate, a one-piece, moulded plate that is pre-assembled with the sorbent of your choice. Our new *Speedisk 96*-well plate was designed with standard geometries to adapt to most popular automated liquid handling systems. Plates are pre-assembled with the silica or polymer sorbent of your choice.

**Table 7a Comparison between BAKERBOND spe columns and BAKERBOND Speedisk columns**

Sample preparation step	BAKERBOND spe columns	BAKERBOND Speedisk columns
Column Size / Sorbent	1 ml / 100 mg	1 ml /20 mg
Particle Size	40 µm	25 µm
Sample Volume	2 ml	1 ml
Column conditioning	2 ml (20-40 sec)	0.5 ml (5-10 sec)
Sample addition	2 ml (100 sec)	50µl -0,5 ml (50 sec)
Washing	1.5 ml (15-20 sec)	0.4 ml (2-5 sec)
Elution	1-2 ml (15-20 sec)	0.3-0.6 ml (2-5 sec)
Sample concentration/ evaporation	3-10 minutes	reduced or eliminated

**BAKERBOND Speedisk Extraction Disks**

The correct choice for samples from 200 ml to 2 L is our patented BAKERBOND Speedisk Extraction Disks, pre-assembled for use in preparing aqueous samples for analysis.

**BAKERBOND Speedisk Products are Protected by U.S. Patent No. 5,595,653**

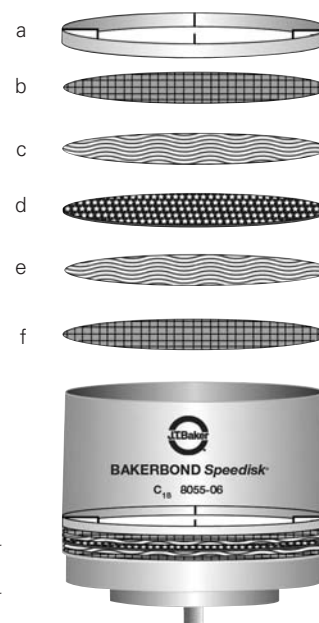


BAKERBOND Speedisk Extraction Disks shorten extraction time to less than one hour. Versatile, silica and polymer based, BAKERBOND Speedisk Extraction Disks can be used for clear and particle-laden samples

**BAKERBOND Speedisk Extraction Disks:**

- Ensure rapid run completion even with dirty samples
- Reduce solvent consumption and hazardous waste
- Improve precision with its optimised flow path design
- Provide additional technology options to meet EPA requirements

The patented BAKERBOND Speedisk extraction disk is neither cartridge nor membrane. A thin bed of micro-particles of BAKERBOND sorbent is supported in a laminar structure to maintain speed and capacity and enhance reproducibility of adsorption. The laminar configuration provides filtration capacity and inlet characteristics that maximise access of analyte molecules to the microparticulate sorbent. BAKERBOND Speedisk Extraction Disk design resists clogging and



- a Retaining ring
- b Screen
- c Glass fiber filter
- d Sorbent
- e Glass fiber filter
- f Screen

ensures high throughput rates even when samples contain solids.

Capacity, recovery, and precision are high due to the unique disk configuration and performance of BAKERBOND sorbent.

With BAKERBOND Speedisk Extraction Disks sample contamination is virtually eliminated:

- Your hands never touch the wetted parts of the pre-assembled disk
- The sorbent and disk housing are pre-cleaned
- Polyester packaging provides a barrier that repels moisture and eliminates the risk of contamination by plastic additives (e.g. phthalates)

BAKERBOND Speedisk Extraction Disks are compatible with J.T.Baker standard vacuum processors and Speedisk Extraction Stations.

# Selection Guide for SPE sorbents and solvents

## Selection Guide for SPE Sorbents and Solvents

In order to help you in choosing the right sorbent and solvent for your solid phase extraction method, Mallinckrodt Baker provides you with the general guidance - the *Sorbent Selection Guide*.

This Sorbent Selection Guide is a systematic guide classifying samples according to polarity, ionisability and solubility in water or organic solvents. This information is useful in selecting the necessary components of a preliminary extraction method.

**Table 7b Organic Samples MW < 2000 (in solution)**

SAMPLE SOLUBILITY	Organic Solvent Soluble			Water Soluble				
SAMPLE MATRIX	Organic	Organic	Aqueous	Ionic		Non-ionic/Ion-paired		
	Polar	Moderately Polar	Non Polar	Anionic	Cationic	Aqueous Non Polar	Aqueous Moderately Polar	Aqueous Polar
MECHANISM <sup>1</sup>	NPC	LSC	RPC	IEC	IEC	RPC	LSC	NPC
SPE PHASE	H <sub>2</sub> O-Philic DVB	H <sub>2</sub> O-Phobic DVB	H <sub>2</sub> O-Phobic DVB	H <sub>2</sub> O-Phobic WA-DVB	H <sub>2</sub> O-Phobic SC-DVB	H <sub>2</sub> O-Phobic DVB	H <sub>2</sub> O-Phobic DVB	H <sub>2</sub> O-Philic DVB
RECOMMENDED <sup>2</sup>	Cyano	H <sub>2</sub> O-Philic DVB	H <sub>2</sub> O-Philic DVB	H <sub>2</sub> O-Philic SA-DVB	H <sub>2</sub> O-Philic SC-DVB	H <sub>2</sub> O-Philic DVB	H <sub>2</sub> O-Philic DVB	Cyano
	Diol	Silica gel	SDB-1/SDB-2	Amino	Cyano	SDB-1/SDB-2	Silica gel	Diol
	Amino	Florisil	Octadecyl	1,2 Amino	Carboxylic Acid	Octadecyl	Florisil	Amino
	1,2 Amino	Alumina	Octyl	Quaternary Amine	Sulfonic Acid	Octyl	Alumina	1,2 Amino
			Cyclohexyl			Cyclohexyl		
			Phenyl			Phenyl		
			Cyano			Cyano		
SOLVENTS <sup>3,4</sup>	Hexane	Hexane	Hexane	Acids, buffers	Acids, bases, buffers	Hexane	Hexane	Hexane
	Chloroform	Chloroform	Dichloromethane			Dichloromethane	Chloroform	Chloroform
	Dichloromethane	Dichloromethane	Acetone			Acetone	Dichloromethane	Dichloromethane
	Acetone	Ethyl acetate	Acetonitrile			Acetonitrile	Ethyl acetate	Acetone
	Methanol	Methanol	Methanol			Methanol	Methanol	Methanol
			Water			Water		
<sup>1</sup> Separation Mechanisms			<sup>2</sup> Bonded phases listed in order of increasing polarity					
LSC: Liquid Solid Chromatography (Adsorption)			<sup>3</sup> Eluting solvents listed in order of increasing polarity					
NPC: Normal Phase Chromatography (Bonded Phase Partition)			<sup>4</sup> Selective elution can be performed by combining two or more miscible solvents to achieve various degrees of polarity					
RPC: Reversed Phase Chromatography (Bonded Phase Partition)								
IEC: Ion-Exchange Chromatography (Bonded Phase Ion-Exchange)								
SDB: styrene divinyl benzene			<b>3,4 Solvents:</b>					
DVB: divinyl benzene			9262 Hexane, ULTRA RESI-ANALYZED					
H <sub>2</sub> O-Phobic WA DVB: Weak anion exchanger			9257 Chloroform, ULTRA RESI-ANALYZED					
H <sub>2</sub> O-Phobic SC DVB: Strong cation exchanger			9264 Dichloromethane, ULTRA RESI-ANALYZED					
H <sub>2</sub> O-Philic SA DVB Strong anion exchanger			9260 Ethyl acetate, ULTRA RESI-ANALYZED					
H <sub>2</sub> O-Philic SC DVB: Strong cation exchanger			9254 Acetone, ULTRA RESI-ANALYZED					
			9255 Acetonitrile, ULTRA RESI-ANALYZED					
			9077 Methanol, ULTRA RESI-ANALYZED					
			4219 Water, ULTRA RESI-ANALYZED					



## More Information

This Sorbent Selection Guide is also available on:

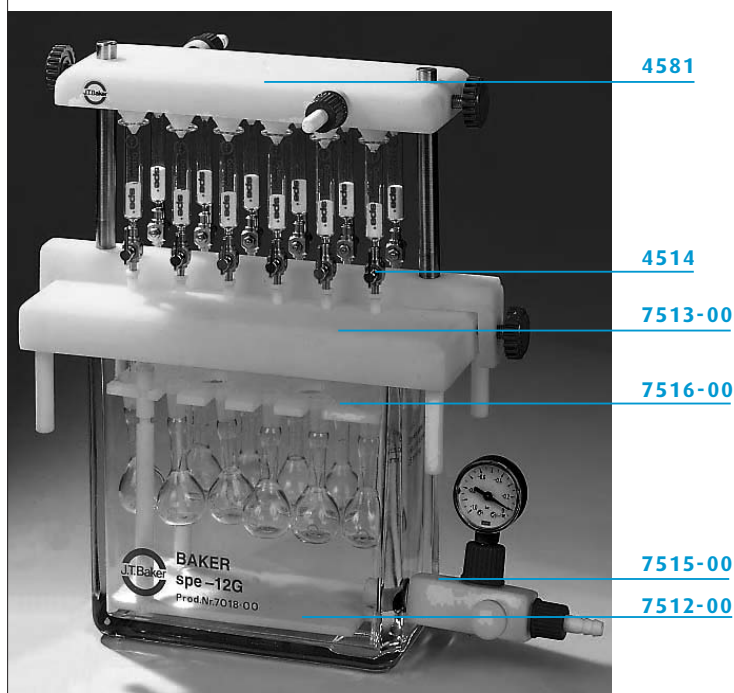
<http://www.jtbaker.com/chromatography/SolidPhaseExtraction.asp>

## Processor and Extraction stations

### Standard Vacuum Processors for Extraction Columns

J.T.Baker standard vacuum processors offer the flexibility of processing SPE devices of different heights, diameters, or formats during the same experiment. The vacuum box design is familiar

throughout the industry, and it supports all devices and accessories with luer-type fittings such as BAKERBOND spe, *Speedisk* columns as well as *Speedisk* extraction disks.

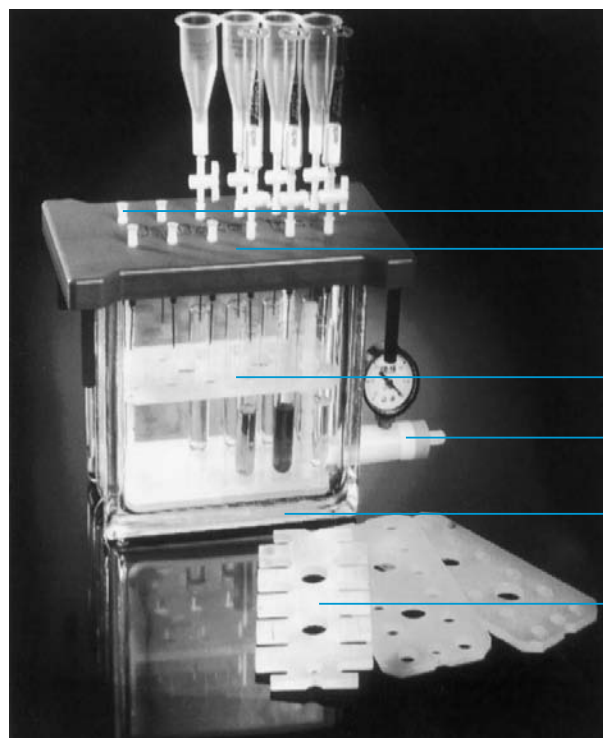


### BAKER spe-12G Column Processor (PTFE Design) (7018-94)

#### Parts and Accessories

The BAKER spe-12G Column Processor (PTFE Design) complete includes: 1 borosilicate glass vacuum chamber, 1 white-coloured polyamide lid including 12 luer PTFE connectors, plugs (12x) for lid, 1 polyethylene gasket, 12 Luer PP Stopcocks, 1 PTFE sample collection rack set including height adjustable shelves, 1 vacuum gauge/PTFE controller assembly, 1 instruction sheet, 1 BAKERBOND spe Application Notes Manual, 1 Solid Phase Extraction for Sample Preparation Manual.

Description	Quantity per box	Product Number
<b>Extraction Column Processor replacement parts for BAKER spe-12G Column Processor (PTFE design)</b>		
Borosilicate Glass Vacuum Chamber	1	7512-00
Polyamide Lid (with 12 PTFE luer connectors)	1	7513-00
PTFE Sample Collection Rack Set	1	7516-00
Polyethylene Gasket Seals	2	7430-00
Neoprene Gasket Seals	2	7433-00
Plugs for lid that fits into luer PTFE connectors (4586)	30	7517-00
Luer PTFE Stopcocks	12	7514-00
Luer PTFE Connectors (one-piece)	12	4586
Polypropylene Stopcocks	10	7241-00
Vacuum Gauge/PTFE Controller Assembly	1 Assembly	7515-00
<b>Accessories for BAKER spe-12g Column Processor (PTFE design)</b>		
Autosampler Plate	1	7516-01
Drying Top, polyamide for drying (columns) or evaporation (eluates) purpose	1	4581
PTFE Lined Luer locks (taps), Stainless Steel	12	4514
Stop Cocks, polypropylene	10	7241-00

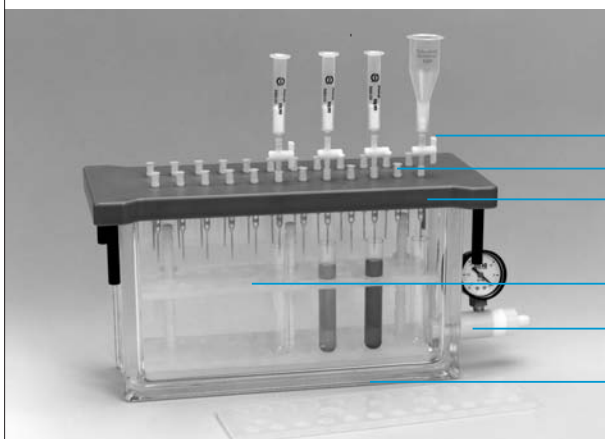


### *BAKER spe-12G Column Processor (7018-00)*

#### Parts and Accessories

BAKER spe-12G Column Processor complete includes: 1 glass vacuum chamber, 1 blue-coloured nylon cover with 12 luer connectors and 1 polyethylene gasket, 12 individual flow control polypropylene stopcocks, 12 plugs for lid, 12 stainless steel needles, 1 sample collection rack with 3 support posts, 3 height adjustable shelves, 9 shelf support clips, 1 vacuum gauge/polypropylene controller assembly, 1 instruction sheet, 1 BAKERBOND spe Application Notes Manual, 1 Solid Phase Extraction for Sample Preparation Manual.

Description	Quantity per box	Product Number
<b>Extraction Column Processor replacement parts for BAKER spe-12G Column Processor</b>		
Glass Vacuum Chamber	1	7421-00
Nylon (blue-coloured) Lid (with 12 luer connectors)	1	7424-00
Polypropylene Rack Set	1	7427-00
Polyethylene Gasket Seals	2	7430-00
Neoprene Gasket Seals	2	7433-00
Polypropylene Replacement Needles	12	7436-00
Polypropylene Rack Shelf Clips	12	7438-00
Vacuum Gauge / Controller Assembly	1 assembly	7437-00
Plugs for Lid	30	7327-00
Polypropylene Stopcocks	10	7241-00
Polypropylene Luer Connector Female	12	2120-02
Polypropylene Luer Connector Male	12	2121-20
Stainless steel needles	12	7323-00
<b>Extraction Column Processor replacement parts for BAKER spe-12G Column Processor</b>		
Inert Flow Control Valves	12	7425-00
Inert Flow Control Valves	150	7425-01
Luer PTFE Connectors (one-piece)	12	4586
Luer Locks (taps), Stainless Steel	12	4505
PTFE Lined Luer Locks (taps), Stainless Steel	12	4514



**7241-00**

**2120-02**

**7426-00**

**7429-00**

**7437-00**

**7423-00**

### ***BAKER spe-24G Column Processor (7208-00)***

#### ***Parts and Accessories***

The BAKER spe-24G Column Processor complete includes: 1 glass vacuum chamber, 1 blue-coloured nylon cover with luer fitting connectors and 1 polyethylene gasket, 24 individual flow control polypropylene stopcocks, 24 stainless steel needles, 1 sample collection rack with 3 support posts, 3 height adjustable shelves, 9 shelf support clips, 1 vacuum gauge/polypropylene controller assembly, 1 instruction sheet, 1 BAKERBOND spe Application Notes Manual, 1 Solid Phase Extraction for Sample Preparation Manual.

Description	Quantity per box	Product Number
<b>Extraction Column Processor replacement parts for BAKER spe-24G Column Processor</b>		
Glass Vacuum Chamber	1	7423-00
Nylon (blue-coloured) Lid (with luer connectors)	1	7426-00
Polypropylene Rack Set	1	7429-00
Polyethylene Gasket Seals	2	7432-00
Neoprene Gasket Seals	2	7435-00
Polypropylene Replacement Needles	12	7436-00
Polypropylene Rack Shelf Clips	12	7438-00
Vacuum Gauge / Controller Assembly	1 assembly	7437-00
Plugs for Lid	30	7327-00
Polypropylene Stopcocks	10	7241-00
Polypropylene Luer Connector Female	12	2120-02
Polypropylene Luer Connector Male	12	2121-20
Stainless steel needles	12	7323-00
<b>Accessories for BAKER spe-24G Column Processor</b>		
Inert Flow Control Valves	12	7425-00
Inert Flow Control Valves	150	7425-01
Luer PTFE Connectors (one-piece)	12	4586
Luer Locks (taps), Stainless Steel	12	4505
PTFE Lined Luer Locks (taps), Stainless Steel	12	4514



## BAKERBOND Solid Phase Extraction Automation

High productivity and reproducibility in solid phase extraction as a sample preparation technique can be achieved using automation. As a manufacturer of standard SPE columns, extraction disks as well as 96-well plates, J.T.Baker offers you a possibility to use our products with automated processors.

With the sorbents we offer, you will have lot-to-lot flow reproducibility and low backpressures that will enable you to use automation to achieve higher productivity and reliable results.

### Speedisk 48 Positive Pressure Processor (8118-00)



- Twice the capacity of a typical vacuum processor
- Exceptional precision, control, and reliability
- Perfect for processing 1, 3 and 6 ml columns in batches of 1–48 samples
- Distributes N<sub>2</sub> or compressed air to displace liquid from SPE columns
- Easily enables a high level of control and precision



### Speedisk 96 Positive Pressure Processor (8129-00)

- The *Speedisk* 96 Pressure Processor provides the means to batch process up to 96 solid phase extraction columns assembled to conform to the 96-well micro-plate footprint
- Higher pressure differentials are achievable to overcome resistance to flow caused by high viscosity
- The processor produces the same flow rate in each of 96 columns arrayed in the 8 x 12 micro-plate pattern

Description	Quantity per box	Product Number
<b>Accessories for <i>Speedisk</i> 48 Positive Pressure Processor<sup>1</sup></b>		
Rack for 1 ml SPE Columns	1	8122-01
Rack for 3 ml SPE Columns	1	8123-01
Rack for 6 ml SPE Columns	1	8124-01
Collection Tube Rack, 12 x 75 mm Tubes	1	8119-01
Collection Tube Rack, 13 x 100 mm Tubes	1	8120-01
Collection Tube Rack, 16 x 100 mm Tubes	1	8121-01
Collection Vial Rack, 12 x 32 mm Auto-Sampler	1	8125-01
Waste Bin	1	8126-01
48-Column Sealing Gasket	1	8127-01
Gas Supply Adapter <sup>2</sup>	1	8128-01

<sup>1</sup> Complete—Includes 3 ml SPE column rack, collection tube rack for 12 x 75 mm tubes, waste bin, gas supply adapter and tubing, 48-sealing gasket

<sup>2</sup> 6 ft. length of 1 D4" tubing and 1 D8"–1 D4" adapter fittings.

Description	Quantity per box	Product Number
<b>Accessories for <i>Speedisk</i> 96<sup>1</sup> Positive Pressure Processor</b>		
10 ml x 24 Well Collection Tray	1	8197-24
1 ml x 96 Well Collection Tray	1	8188-96
2 ml x 96 Well Collection Tray	1	8131-96
<i>Speedisk</i> 96 Column Holder	1	8150-00
96-Column Sealing Gasket	1	8130-01
Gas Supply Adapter <sup>2</sup>	1	8128-01

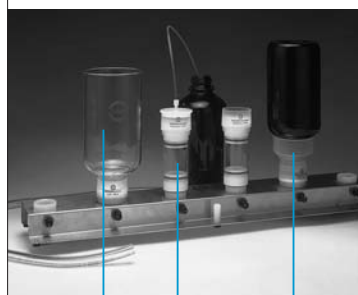
<sup>1</sup> Complete—includes 1 ml x 96 collection tray, 2 ml x 96 collection tray, 96-column sealing gasket, *Speedisk* 96 column holder, gas supply adapter and tubing.

<sup>2</sup> 6 ft. length of 1 D4" tubing and 1 D8"–1 D4" adapter fittings

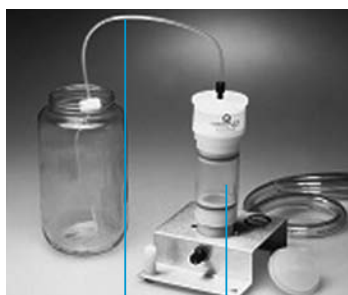
### Speedisk Extraction Stations

Whatever your space and sample loading requirements, we have a vacuum extraction disk processor to meet your needs. Choose from models such as our:

- *Speedisk* Single Extraction Station
- Expanded Extraction Station used in reservoir, inverted, or remote sample feed modes



8098-01 8096-02 8097-06



8099-06 8096-02

### Speedisk Single Extraction Station (8093-01)

The *Speedisk* Single Extraction Station includes a *single-port vacuum stand* and accessories to support the extraction of analytes using BAKERBOND *Speedisk* laminar extraction disks. Supports any sample loading technique.

### Speedisk Expanded Extraction Station (8095-06)

The *Speedisk* Expanded Extraction Station includes a six-port vacuum manifold and the accessories needed to support the extraction of analyte by BAKERBOND *Speedisk* laminar extraction disks.

The manifold has a rectangular footprint and inter-port spacing to accommodate six, side-by-side, 1 liter sample reservoirs. Each vacuum port has an individual open/close valve.

Description	Quantity per box	Product Number
<b>Speedisk Extraction Stations</b>		
Expanded extraction station		
Six-port processing system (six side-by-side 1L sample reservoirs)	1	8095-06
Single extraction station single-port processing system	1	8093-01
<b>Speedisk Adapters</b>		
Remote sample adapter		
For transfer of sample from remote container to <i>Speedisk</i> Disk	6	8099-06
Flask Adapter		
Single port with #8 stopper.		
Connection of disks to vacuum flask and many other vacuum manifolds (such as Nalge and Contes). Accepts disks or collection chamber	1	8070-01
Adapter ring		
For 40-35 tapered outer joint. Accepts disks or collection chamber	6	8100-06
<b>Speedisk Reservoirs</b>		
185 ml Reservoir		
Holds inverted 1L reservoir or 185 ml sample	6	8097-06
1L Glass reservoir		
1L sample reservoir, fits into a <i>Speedisk</i> extraction disk	1	8098-01
Collection chamber (includes sample vial)	2	8096-02
Collection vials (Sample vials)	100	8102-01
Sample tray		
Holds up to four 1L bottle at a tilt to ensure complete sample uptake by remote sample adapter suction tube	1	8101-01
70mm/ Mason Jar Adapter		
Enables inverted feed directly to extraction disk from sample jar	4	8102-04

# BAKERBOND Columns and Media

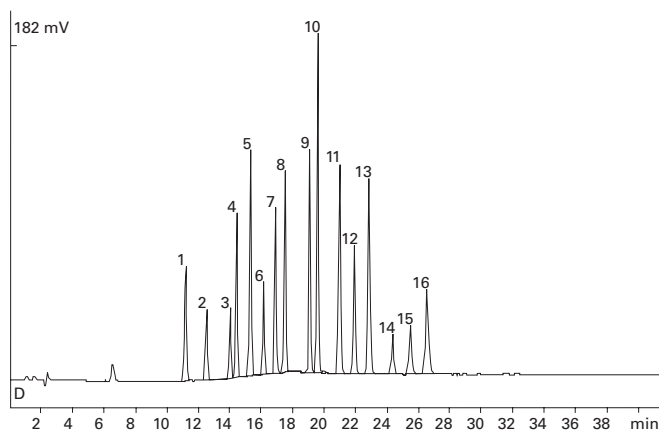
BAKERBOND Columns and Media are designed to deliver optimum performance, reproducibility, and easy scale-up.

- BAKERBOND bonded phases are synthesised using trifunctional silane synthesis chemistry
- The resulting bonded phases provide increased resistance to hydrolysis, greater stability at extremes of pH, and reduced silanol interactions for higher recoveries and less “tailing”
- Trifunctional silane chemistry provides a more consistent ligand density for increased resolution
- These high-quality spherical and irregular “polymeric” particles increase column lifetime versus monofunctional-bonded silicas
- BAKERBOND bonded phases with a given functionality are synthesised using the same chemistry regardless of particle size. Purification scale-up from analytical to process scale is straightforward
- BAKERBOND bonded phases are available as reverse, normal and ion exchange phases

## BAKERBOND PAH-16 PLUS HPLC Column

The separation of PAHs is greatly influenced by the type of synthesis that is used for the preparation of C<sub>18</sub>. In reverse phase chromatography two types of silane modification can be distinguished that resulted in either monomeric or polymeric bond linkages. The polymeric phases provided significant enhanced

selectivity characteristics, particularly for isomeric PAHs. BAKERBOND PAH-16 Plus column contains a wide pore C<sub>18</sub> bonded phase synthesised under polymer-forming conditions. Specially designed for the separation of the sixteen PAH's as defined by the U.S. Environmental Protection Agency (EPA).



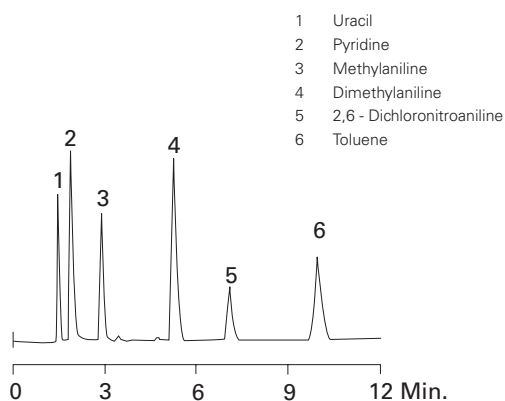
SRM 1647d, diluted in Acetonitrile/Water (40/60v/v)	µg/ml
1 Naphthalene	4.03
2 Acenaphthylene	3.10
3 Acenaphthene	4.15
4 Fluorene	0.95
5 Phenanthrene	0.68
6 Anthracene	0.16
7 Fluoranthene	1.53
8 Pyrene	1.69
9 Benz[a]anthracene	0.82
10 Chrysene	0.73
11 Benzo[b]fluoranthene	0.83
12 Benzo[k]fluoranthene	0.94
13 Benzo[a]pyrene	0.98
14 Dibenzo[a,h]anthracene	0.71
15 Benzo[ghi]perylene	0.74
16 Indeno[1,2,3-cd]pyrene	0.86

BAKERBOND PAH 16 Plus, 5µm, 250 x 3.0 mm + guard (7504-00)  
 Mobile Phase: A=Water  
 B=Acetonitrile  
 Gradient: 50% B for 5 min  
 50 – 100% B in 15 min  
 100% B for 25 min  
 Flow Rate: 0.5 mL/min  
 Temperature: 25 °C  
 Detection: 254 nm

### BAKERBOND BDC C<sub>18</sub> HPLC Column

BAKERBOND BDC C<sub>18</sub> receives a special base deactivation treatment during silica material manufacture to reduce silanophilic activity. BAKERBOND BDC C<sub>18</sub> is endcapped and suitable for chromatography of basic compounds. BAKERBOND BDC C<sub>18</sub> phases are ideal for the determination of pharmaceutical active components.

- Base Deactivated Column
- Sharp peaks and improved symmetry for basic compounds
- Value and performance from a globally referenced column
- Long column lifetime with excellent column-to-column and batch-to-batch reproducibility
- Excellent peak symmetry



BAKERBOND BDC C<sub>18</sub>, 5µm, 150 x 4.6mm (7441-01)  
Gradient: 60% Methanol 40% 0.05 M Phosphate buffer  
Flow Rate: 1.0 m L/min  
Detection: 254 nm

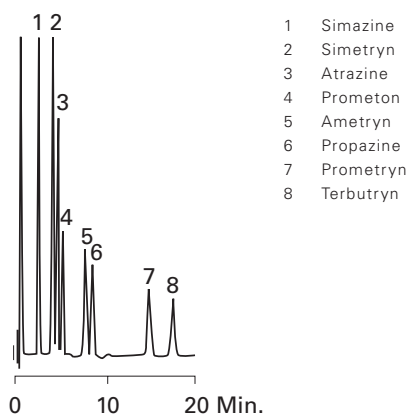
#### Specifications BAKERBOND BDC C<sub>18</sub>:

Available Particle Sizes (µm):	3,5
Pore Diameter (Å):	130
Specific Surface (m <sup>2</sup> /g):	170
Carbon (%):	11.0
Endcapped:	Yes
USP Listing:	L1

### BAKERBOND ENV HPLC Column

BAKERBOND ENV is an alkyl-bonded phase, tailored for the analysis of polar pollutants commonly found in industrial and agricultural residues. The bonded phase has a uniform alkyl coverage providing a high shielding of the silica surface and a high degree of reproducibility and repeatable analysis, as well as low batch-to-batch variation.

#### Triazine Herbicides



BAKERBOND ENV, 5µm, 150 x 4.6mm (7446-01)  
Gradient: A: 65% 0.1M Sodium acetate, pH 6;  
B: 35% Acetonitrile  
Flow Rate: 1.5 m L/min  
Detection: 220 nm

#### Specifications BAKERBOND ENV:

Available Particle Sizes (µm):	5
Pore Diameter (Å):	120
Specific Surface (m <sup>2</sup> /g):	170
Carbon (%):	13.0
Endcapped:	Yes
Pore Volume (cc/g):	0.65

#### BAKERBOND Chiral Columns

BAKERBOND Chiral Phase HPLC columns offer economic alternatives for the separation of racemic mixtures, including isomers of pharmaceuticals and other biologically active compounds.



For more information on sorbent selection guide for high molecular weight compounds and trace metal analysis visit - <http://www.jtbaker.com/chromatography/techlib/default.asp>

# Biochromatography Products and Media

## Biomolecule Purification

Biochromatography products and media are specifically designed for purification and analysis of proteins, peptides and polynucleotides.

Combining chromatographic properties of wide-pore silica with a proprietary surface chemistry has created a versatile family of products for a wide range of large molecule applications. Scale-up from analytical to process scale is facilitated by providing the same surface chemistry on all three-particle sizes.

The BAKERBOND Biochromatography product line consists of the following types of media:

- Reverse Phase
- Ion Exchange and Antibody Purification
- Hydrophobic Interaction
- Affinity Chromatography



BAKERBOND ABx (antibody exchanger) is a unique mixed-mode ion exchanger designed specifically for the purification and analysis of antibodies. The “affinity-like” properties of ABx allow it to preferentially bind antibodies yielding purities of 80–99% in a single step, binding all antibody classes and subclasses. Since ABx does not bind most albumins, transferrins, proteases or phenol red, most of the column capacity is used for binding antibody. This provides capacities of up to 50 mg/ml.

BAKERBOND CARBOXY-SULFON directly binds/captures, concentrates and purifies neutral and basic target proteins from neat cell culture fluids without a pre-processing step in the purification of proteins from cell culture fluids and fermentation broth (buffer exchange, dialysis, dilution). BAKERBOND CARBOXY-SULFON is a weak-strong cation exchanger providing unique binding selectivity as well as extremely high ligand densities which results in the tight binding of proteins.

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND spe Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
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### ADSORPTION

<b>Activated Spherical Carbon</b>	6	30	500	7575-06	
	6	30	1000	7575-07	
<b>Alumina, Neutral (Al<sub>2</sub>O<sub>3</sub>)</b>	3	50	500	7214-03	
	3	50	1000	7214-04	
	6	30	1000	7214-07	
	6	250	1000	7214-27	
<b>Florisil (Mg<sub>2</sub>SiO<sub>3</sub>)</b>	3	50	500	7213-03	
	6	30	1000	7213-07	
	6	30	2000	7213-08	
	Jumbo Pack	3	250	500	7213-23
	Jumbo Pack	6	250	1000	7213-27
	Glass	8	30	500	7420-06
	Glass	8	30	1000	7420-07
	<b>Silica Gel (SiOH)</b>	1	100	50	7086-00
1		100	100	7086-01	
3		50	200	7086-02	
3		50	500	7086-03	
6		30	500	7086-06	
6		30	1000	7086-07	
6		30	2000	7086-08	
Jumbo Pack		3	400	200	7086-22
Jumbo Pack		3	400	500	7086-23
Jumbo Pack		6	250	500	7086-26
Jumbo Pack		6	250	1000	7086-28
		15	20	2000	7086-40
		45	20	5000	7086-41
		70	10	10000	7086-42
Glass		1	100	100	7337-01
Glass		8	30	1000	7337-07
Glass		8	30	2000	7337-08

### ANION EXCHANGE

<b>Diamino (NH/NH<sub>2</sub>)</b>	3	50	500	7089-03
<b>Quaternary Amine (N<sup>+</sup>)</b>	1	100	50	7091-00
	1	100	100	7091-01
	3	50	500	7091-03

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND spe Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
<b>BIOCHROMATOGRAPHY</b>					
Sephadex G-25	6	30	500	7219-07	
WP Butyl (C <sub>4</sub> )	6	30	500	7216-06	
WP CBX (COOH)	6	30	500	7217-06	
WP HI-Propyl (C <sub>3</sub> )	6	30	500	7238-06	
WP PEI (NH)	1	100	150	7218-02	
<b>CATION EXCHANGE</b>					
Aromatic Sulfonic Acid (C <sub>6</sub> H <sub>5</sub> -SO <sub>3</sub> H)	1	100	50	7090-00	
	1	100	100	7090-01	
	3	50	500	7090-03	
	6	30	1000	7090-07	
	6	400	500	7090-29	
Jumbo Pack					
Carboxylic Acid (COOH)	1	100	50	7211-00	
	1	100	100	7211-01	
	3	50	500	7211-03	
Propyl Sulfonic Acid (CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> SO <sub>3</sub> H)	3	50	500	7155-03	
<b>METHOD DEVELOPMENT</b>					
Method development kit, 5 each:(octadecyl, octyl, phenyl, silica gel, cyano, carboxylic acid, amino, diol, diamino, quaternary amine, aromatic sulfonic acid)	3	55	500	7096-00	
protein sorbent selection kit, 3 each (CBX, PEI, HI-propyl, butyl, sephadex G-25)	6	15	500	7239-09	
<b>NORMAL PHASE</b>					
Amino (NH <sub>2</sub> )	1	100	50	7088-00	
	1	100	100	7088-01	
	3	50	200	7088-02	
	3	50	500	7088-03	
	6	30	2000	7088-09	
	19	50	500	7088-13	
wide mouth					

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND spe Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
<b>NORMAL PHASE</b>					
<b>Cyano (CN)</b>	1	100	50	7021-00	
	1	100	100	7021-01	
	3	50	100	7021-02	
	3	50	500	7021-03	
	6	30	1000	7021-07	
<b>Diol (COHCOH)</b>	1	100	50	7094-00	
	1	100	100	7094-01	
	3	50	500	7094-03	
	6	30	500	7094-06	
<b>REVERSED PHASE</b>					
<b>Cyclohexyl (C<sub>6</sub>H<sub>11</sub>)</b>	1	100	50	7212-00	
	1	100	100	7212-01	
	3	50	500	7212-03	
	Glass	8	30	7419-06	
	Glass	8	30	7419-07	
<b>Ethyl (C<sub>2</sub>)</b>	1	100	50	7273-00	
	1	100	100	7273-01	
	3	50	200	7273-02	
	3	50	500	7273-03	
<b>Octadecyl (C<sub>18</sub>)</b>	1	100	50	7020-00	
	1	100	100	7020-01	
	3	50	200	7020-02	
	3	50	500	7020-03	
	6	30	500	7020-06	
	6	30	1000	7020-07	
	6	30	2000	7020-08	
	Wide-Mouth	19	50	100	7020-11
	Wide-Mouth	19	50	500	7020-13
	Jumbo Pack	1	400	100	7020-21
	Jumbo Pack, also available as ear shaped: PN 7020-22T	1	1000	100	7020-22
	Jumbo Pack	3	400	500	7020-23
	Jumbo Pack	6	250	500	7020-26
	Jumbo Pack	6	250	1000	7020-27
	Wide-Mouth	19	250	500	7020-33
		15	20	2000	7020-40
		45	20	5000	7020-41
		70	10	10000	7020-42
	Glass	1	100	100	7334-01
	Glass	3	50	500	7334-03
Glass	3	50	1000	7334-04	
Glass	8	30	500	7334-06	
Glass	8	30	1000	7334-07	
Glass	8	30	2000	7334-08	



# Solid Phase Extraction BAKERBOND spe

## BAKERBOND spe Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
<b>REVERSED PHASE</b>				
<b>Octadecyl (C<sub>18</sub>), Light Load</b> Also available as ear shaped: PN 7189-01T	1	100	100	7189-01
	3	50	200	7189-02
	3	50	500	7189-03
	3	50	1000	7189-04
	6	30	500	7189-06
<b>Octadecyl (C<sub>18</sub>), Polar Plus</b>  Also available as ear shaped: PN 7466-03T Also available as ear shaped: PN 7466-04T  Also available as ear shaped: PN 7466-10T  Jumbo Pack, also available as ear shaped: PN 7466-22T Jumbo Pack	1	100	50	7466-00
	1	100	100	7466-01
	3	50	500	7466-03
	3	50	1000	7466-04
	6	30	500	7466-06
	6	30	1000	7466-07
	6	30	2000	7466-08
	6	30	3000	7466-10
	1	100	200	7466-12
	3	400	200	7466-22
	6	250	1000	7466-27
	<b>Octyl (C<sub>8</sub>)</b>  Jumbo Pack Glass Glass	1	100	50
1		100	100	7087-01
3		50	200	7087-02
3		50	500	7087-03
6		30	500	7087-06
6		250	500	7087-26
8		30	500	7418-06
8		30	1000	7418-07
<b>Phenyl(C<sub>6</sub>H<sub>5</sub>)</b>	1	100	50	7095-00
	1	100	100	7095-01
	3	50	500	7095-03
	6	30	500	7095-06
	6	30	2500	7095-09
<b>SDB-1 Polymer Phase</b>  Also available as ear shaped: PN 7519-02T  Jumbo Pack, also available as ear shaped: PN 7519-22T Jumbo Pack Glass Glass	1	100	50	7519-00
	3	50	100	7519-01
	3	50	200	7519-02
	6	30	200	7519-05
	3	400	200	7519-22
	6	250	200	7519-25
	3	50	100	7609-01
	3	50	200	7609-02
<b>SDB-2 Polymer Phase</b>  Also available as ear shaped: PN 7523-02T Also available as ear shaped: PN 7523-05T Jumbo Pack, also available as ear shaped: PN 7523-22T	3	50	50	7523-00
	3	50	200	7523-02
	6	30	200	7523-05
	3	400	200	7523-22

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND spe Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
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### SPECIAL APPLICATIONS

<b>Clean-up column of extracts of Hydrocarbons from Water. Suitable for ISO-9377-2</b> Contains 0.2 g Anhydrous Sodium Sulfate (top) and 0.2 g Florisil, separated by a PTFE frit Contains 2 g Anhydrous Sodium Sulfate and 2 g Florisil, separated by a PTFE frit	3	50	400	7495-04
	8	15	4000	7495-18
<b>Extraction of Pesticides from water</b> Contains 500 mg C <sub>18</sub> (top) and 200 mg SDB-1, separated by a PE frit. Also available as ear shaped: PN 7650-07T	6	30	700	7650-07
<b>Extraction of Polar Pesticides from water</b> Contains 250 mg C <sub>18</sub> Polar Plus (top) and 100 mg SDB-1, separated by a PE frit	6	30	350	7704-06
<b>Narc-1 (Δ<sup>9</sup>-carboxy THC)</b>	3	50	500	7221-03
<b>Narc-2 (cocaine, benzoylecgonine)</b>  Jumbo Pack	3	50	125	7225-04
	6	30	250	7225-05
	6	30	500	7225-06
	3	400	125	7225-24
<b>PAH Aqua</b> Contains 200 mg Amino (top) and 500 mg C <sub>18</sub> separated by a PE frit Contains 500 mg Amino (top) and 1000 mg C <sub>18</sub> , separated by a PE frit	3	50	700	7490-07
	6	30	1500	7490-08
<b>PAH Soil</b> Contains 500 mg Cyano (top) and 1000 mg Silica gel, separated by a PE frit	6	30	1500	7518-08
<b>PCB-A</b> Contains 500 mg Sulfuric Acid treated Silica gel (top) and 500 mg Aromatic Sulfonic Acid, separated by a PE frit Contains 1000 mg Sulfuric Acid treated Silica gel (top) and 700 mg Aromatic Sulfonic Acid, separated by a PE frit	3	50	1000	7511-04
	3	50	1700	7511-06
<b>PCB-N</b> Contains 500 mg Aromatic Sulfonic Acid (top) and 500 mg Silica gel, separated by a PE frit	3	50	1000	7524-04
<b>spe-500 (EPA approved for organochloropesticides)</b>	6	30	500	7222-06

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND spe Glass Columns with PTFE Frits

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
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### EMPTY spe GLASS COLUMNS WITH PTFE FRITS

spe GLASS COLUMNS WITH PTFE Frits	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
	1	100		7328-01
	3	50		7328-03
	8	30		7328-06

### PTFE FRITS FOR spe GLASS COLUMNS

PTFE Frits for 1 ml spe Glass Columns	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
PTFE Frits for 1 ml spe Glass Columns		250		7329-01
PTFE Frits for 3 ml spe Glass Columns		250		7329-03
PTFE Frits for 8 ml spe Glass Columns		250		7329-06

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND speColumn Processors Parts and Accessories

Product  
Number

### ACCESSORIES FOR BAKER spe-12G COLUMN PROCESSOR (PTFE design)

PTFE Lined Luer Locks (taps), Stainless Steel (pkg. of 12)	4514	
Drying Top, polyamide for drying purpose (columns) or evaporation purpose (eluates)	4581	
Luer PTFE Stopcocks (pkg of 12)	7514-00	
Vacuum Gauge/PTFE Controller Assembly	7515-00	
Autosampler Plate	7516-01	
Plugs for lid that fits into Luer PTFE Connectors (PN 4586) (pkg. of 30)	7517-00	

### EXTRACTION COLUMN PROCESSOR REPLACEMENT PARTS FOR BAKER spe-12G COLUMN PROCESSOR

<b>for both designs of BAKER spe-12G Column Processor</b>		
Glass vacuum chamber, suitable for PN 7018-00 BAKER spe-12G Column Processor	7421-00	
Nylon (blue-colored) Lid (with luer connectors), suitable for PN 7018-00 BAKER spe-12G Column Processor	7424-00	
Polypropylene Rack Set, suitable for PN 7018-00 BAKER spe-12G Column Processor	7427-00	
Polyethylene Gasket Seals (pkg of 2), suitable for both designs of BAKER spe-12G Column Processors PN 7018-00 and PN 7018-94	7430-00	
Neoprene Gasket Seals (pkg of 2), suitable for both designs of BAKER spe-12G Column Processor PN 7018-00 and PN 7018-94	7433-00	
Glass Vacuum Chamber, suitable for PN 7018-94 BAKER spe-12G Column Processor (PTFE Design)	7512-00	
Polyamide Lid (with 12 PTFE luer connections), suitable for PN 7018-94 BAKER spe-12G Column Processor (PTFE Design)	7513-00	
PTFE Rack Set, suitable for PN 7018-94 BAKER spe-12G Column Processor (PTFE Design)	7516-00	

### EXTRACTION COLUMN PROCESSOR REPLACEMENTS PARTS FOR BAKER spe-24G PROCESSOR

<b>for BAKER spe-24G Column Processor</b>		
Glass vacuum chamber	7423-00	
Nylon (blue-colored) Lid (with luer connectors)	7426-00	
Polypropylene Rack Set	7429-00	
Polyethylene Gasket Seals (pkg of 2)	7432-00	
Neoprene Gasket Seals (pkg of 2)	7435-00	

### EXTRACTION COLUMN PROCESSORS

BAKER spe-12G Column Processor	7018-00	
BAKER spe-12G Column Processor (PTFE Design))	7018-94	
BAKER spe-24G Column Processor	7208-00	

### GENERAL ACCESSORIES FOR BAKER spe-12G and BAKER-24G

<b>General SPE Accessories</b>		
Polypropylene Luer Connector Female (pkg. of 12)	2120-02	
Polypropylene Luer Connector Male (pkg. of 12)	2121-20	
Luer Locks (taps), Stainless Steel (pkg. of 12)	4505	
10 ml Volumetric Flasks (pkg. of 10)	4515	
BAKERBOND spe Application Notes Manual	4520	
Luer PTFE Connectors (one-piece)	4586	
Polypropylene Stopcocks (pkg. of 10)	7241-00	
Stainless Steel Replacement Needles (pkg. of 12)	7323-00	
Plugs for Female Luer (pkg. of 30)	7327-00	
Inert Flow Control valves (pkg. of 12)	7425-00	
Inert Flow Control Valves (pkg. of 150)	7425-01	
Polypropylene Replacement Needles (pkg. of 12)	7436-00	
Vacuum Gauge / controller assembly	7437-00	

# Solid Phase Extraction BAKERBOND spe

## BAKERBOND speColumn Processors Parts and Accessories

Product  
Number

### GENERAL SPE ACCESSORIES

Reservoirs For Use With 1, 3 and 6 ml spe Columns, 15 ml (pkg. of 10)	7119-01	
Reservoirs For Use With 3 and 6 ml Columns, 75 ml (pkg. of 10)	7120-03	
Filtration Columns, Packed With Dual 20 µm Frits, 1 ml(pkg.of 100)	7121-01	
Filtration spe Columns, Packed With Dual 20 µm Frits, 3 ml (pkg. of 50), also available as ear shaped: PN 7121-03T	7121-03	
Filtration spe Columns, Packed With Dual 20 µm Frits, 3 ml (pkg. of 100)	7121-04	
Frits for 3ml Polypropylene spe Columns (pkg. of 50)	7121-05	
Filtration spe Columns, Packed With Dual 20 µm Frits, 6 ml (pkg. of 30)	7121-06	
Filtration spe Columns, Packed With 20 µm Frits, 6 ml (pkg.of 100)	7121-08	
<b>Adaptors</b>		
Adaptor (white-colored) PTFE for Glass spe Columns (pkg. of 12)	4528	
Adaptor (blue-colored) for Attaching Reservoir or Luer Tip (pkg. of 12)	7122-00	
3 ml spe Column adaptor for use with Gilson Aspec (pkg. of 250)	8137-01	
3 ml spe Column adaptor for use with Gilson Aspec (pkg. of 1000)	8137-10	
1 ml spe Column adaptor for use with Gilson Aspec (pkg. of 250)	8138-01	
1 ml spe Column adaptor for use with Gilson Aspec (pkg. of 1000)	8138-10	

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
<b>ADSORPTION</b>				
Silica	1	100	10	8163-00
	1	100	20	8163-01
	1	100	35	8163-02
	3	50	35	8163-03
	3	50	50	8163-04
	3	50	100	8163-06
	6	30	50	8163-07
	6	30	100	8163-08
	6	30	200	8163-09
	1 (rimless)	96	20	8163-11
<b>ANION EXCHANGE</b>				
Amino (NH <sub>2</sub> )	1	100	10	8165-00
	1	100	20	8165-01
	1	100	35	8165-02
	3	50	35	8165-03
	3	50	100	8165-06
	6	30	50	8165-07
	6	30	100	8165-08
	6	30	200	8165-09
		1 (rimless)	96	20
Quarternary Amine (N <sup>+</sup> )	1	100	10	8168-00
	1	100	20	8168-01
	1	100	35	8168-02
	3	50	35	8168-03
	3	50	50	8168-04
	3	50	100	8168-06
	6	30	50	8168-07
	6	30	100	8168-08
	6	30	200	8168-09
	1 (rimless)	96	20	8168-11
<b>CATION EXCHANGE</b>				
Aromatic Sulfonic Acid (C <sub>6</sub> H <sub>5</sub> -SO <sub>3</sub> H)	1	100	10	8170-00
	1	100	20	8170-01
	1	100	35	8170-02
	3	50	35	8170-03
	3	50	50	8170-04
	3	50	100	8170-06
	6	30	50	8170-07
	6	30	100	8170-08
	6	30	200	8170-09
	1 (rimless)	96	20	8170-11

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
<b>CATION EXCHANGE</b>					
Carboxylic Acid (COOH)	1	100	10	8172-00	
	1	100	20	8172-01	
	1	100	35	8172-02	
	3	50	35	8172-03	
	3	50	100	8172-06	
	6	30	50	8172-07	
	6	30	100	8172-08	
	6	30	200	8172-09	
	1 (rimless)	96	20	8172-11	
<b>NORMAL PHASE</b>					
Cyano(CN)	1	100	10	8159-00	
	3	50	35	8159-03	
	6	30	50	8159-07	
	6	30	200	8159-09	
Diol (COHCOH)	1	100	10	8167-00	
	1	100	35	8167-02	
	3	50	35	8167-03	
	6	30	50	8167-07	
	1 (rimless)	96	20	8167-11	
<b>POLYMER COLUMN-HYDROPHOBIC</b>					
H <sub>2</sub> O-Phobic DVB	1	100	10	8109-00	
	1	100	20	8109-01	
	1	100	35	8109-02	
	3	50	35	8109-03	
	3	50	50	8109-04	
	3	50	100	8109-06	
	6	30	50	8109-07	
	6	30	100	8109-08	
	6	30	200	8109-09	
		1 (rimless)	96	20	8109-11
	H <sub>2</sub> O-Phobic SC-DVB (SO <sub>3</sub> )	1	100	10	8196-00
1		100	20	8196-01	
1		100	35	8196-02	
3		50	35	8196-03	
3		50	50	8196-04	
3		50	100	8196-06	
6		30	50	8196-07	
6		30	100	8196-08	
6		30	200	8196-09	
		1 (rimless)	96	20	8196-11

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
<b>POLYMER COLUMN-HYDROPHOBIC</b>				
<b>H<sub>2</sub>O-Phobic WA-DVB (NH<sub>2</sub>)</b>	1	100	10	8115-00
	1	100	20	8115-01
	1	100	35	8115-02
	3	50	35	8115-03
	3	50	50	8115-04
	3	50	100	8115-06
	6	30	50	8115-07
	6	30	100	8115-08
	6	30	200	8115-09
	1 (rimless)	96	20	8115-11
<b>POLYMER COLUMNS-HYDROPHILIC</b>				
<b>H<sub>2</sub>O-Philic DVB</b>	1	100	10	8108-00
	1	100	20	8108-01
	1	100	35	8108-02
	3	50	35	8108-03
	3	50	50	8108-04
	3	50	100	8108-06
	6	30	50	8108-07
	6	30	100	8108-08
	6	30	200	8108-09
	1 (rimless)	96	20	8108-11
<b>H<sub>2</sub>O-Philic SA-DVB</b>	1	100	10	8113-00
	1	100	20	8113-01
	1	100	35	8113-02
	3	50	35	8113-03
	3	50	50	8113-04
	3	50	100	8113-06
	6	30	50	8113-07
	6	30	100	8113-08
	6	30	200	8113-09
	1 (rimless)	96	20	8113-11
<b>H<sub>2</sub>O-Philic SC-DVB (SO<sub>3</sub>)</b>	1	100	10	8111-00
	1	100	20	8111-01
	1	100	35	8111-02
	3	50	35	8111-03
	3	50	50	8111-04
	3	50	100	8111-06
	6	30	50	8111-07
	6	30	100	8111-08
	6	30	200	8111-09
	1 (rimless)	30	20	8111-11



# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
<b>REVERSED PHASE</b>				
<b>Butyl (C<sub>4</sub>)</b>	1	100	10	8184-00
	1	100	20	8184-01
	1	100	35	8184-02
	3	50	35	8184-03
	3	50	50	8184-04
	3	50	100	8184-06
	6	30	50	8184-07
	6	30	100	8184-08
	6	30	200	8184-09
	1 (rimless)	96	20	8184-11
<b>Ethyl (C<sub>2</sub>)</b>	1	100	35	8157-02
	3	50	35	8157-03
	6	30	50	8157-07
	6	30	100	8157-08
	6	30	200	8157-09
<b>Octadecyl (C<sub>18</sub>)</b>	1	100	20	7606-01
	1	100	35	7606-02
	3	50	35	7606-03
	3	50	50	7606-04
	3	50	100	7606-06
	6	30	50	7606-07
	6	30	100	7606-08
	6	30	200	7606-09
		1 (rimless)	96	20
<b>Octadecyl Light Load (C<sub>18</sub>)</b>	1	100	10	8151-00
	1	100	20	8151-01
	1	100	35	8151-02
	3	50	35	8151-03
	3	50	50	8151-04
	3	50	100	8151-06
	6	30	50	8151-07
	6	30	100	8151-08
	6	30	200	8151-09
	1 (rimless)	96	20	8151-11
<b>Octyl (C<sub>8</sub>)</b>	1	100	10	8154-00
	1	100	20	8154-01
	1	100	35	8154-02
	3	50	35	8154-03
	3	50	50	8154-04
	3	50	100	8154-06
	6	30	50	8154-07
	6	30	100	8154-08
	6	30	200	8154-09
	1 (rimless)	96	20	8154-11

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
<b>REVERSED PHASE</b>				
<b>Phenyl (C<sub>6</sub>H<sub>5</sub>)</b>	1	100	10	8160-00
	1	100	35	8160-02
	3	50	50	8160-04
	3	50	100	8160-06
	6	30	50	8160-07
	6	30	200	8160-09
<b>PolarPlus Octadecyl (C<sub>18</sub>)</b>	1	100	10	8153-00
	1	100	20	8153-01
	1	100	35	8153-02
	3	50	35	8153-03
	3	50	50	8153-04
	3	50	100	8153-06
	6	30	50	8153-07
	6	30	100	8153-08
	6	30	200	8153-09
1 (rimless)	96	20	8153-11	
<b>PolarPlus Octyl (C<sub>8</sub>)</b>	1	100	10	8156-00
	1	100	20	8156-01
	1	100	35	8156-02
	3	50	35	8156-03
	3	50	50	8156-04
	6	30	50	8156-07
	1 (rimless)	96	20	8156-11
<b>SPECIAL APPLICATIONS</b>				
<b>Narc-1 (Δ<sup>9</sup> - Carboxy THC)</b>	1	100	10	8174-00
	3	50	50	8174-04
	3	50	100	8174-06
	6	30	50	8174-07
	6	30	100	8174-08
<b>Narc-2 (Basic Drugs, Cocaine, Benzoylcegonine)</b>	1	100	10	8175-00
	1	100	20	8175-01
	1	100	35	8175-02
	3	50	35	8175-03
	3	50	50	8175-04
	3	50	100	8175-06
	6	30	50	8175-07
	6	30	100	8175-08
	6	30	200	8175-09
	1 (rimless)	96	20	8175-11

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number	
<b>SPEEDISK 96 POLYMER COLUMNS (incl. holder)</b>					
H <sub>2</sub> O-Philic SA-DVB	1 (rimless)	96	20	8113-31	
H <sub>2</sub> O-Phobic DVB	1 (rimless)	96	20	8109-31	
H <sub>2</sub> O-Phobic SC-DVB	1 (rimless)	96	20	8196-31	
H <sub>2</sub> O-Phobic WA-DVB	1 (rimless)	96	20	8115-31	
H <sub>2</sub> O-Philic DVB	1 (rimless)	96	20	8108-31	
H <sub>2</sub> O-Philic SC-DVB	1 (rimless)	96	20	8111-31	
<b>SPEEDISK 96 SILICA COLUMNS (incl. holder)</b>					
Amino (NH <sub>2</sub> )	1 (rimless)	96	20	8165-31	
Aromatic Sulfonic Acid (C <sub>6</sub> H <sub>5</sub> -SO <sub>3</sub> H)	1 (rimless)	96	20	8170-31	
Butyl (C <sub>4</sub> )	1 (rimless)	96	20	8184-31	
Butyl WP	1 (rimless)	96	20	8180-31	
Carboxylic Acid	1 (rimless)	96	20	8172-31	
CBx WP	1 (rimless)	96	20	8176-31	
Ethyl (C <sub>2</sub> )	1 (rimless)	96	20	8157-31	
HI Propyl (C <sub>3</sub> )	1 (rimless)	96	20	8182-31	
Narc-2	1 (rimless)	96	20	8175-31	
Octadecyl (C <sub>18</sub> )	1 (rimless)	96	20	7606-31	
Octadecyl LightLoad (C <sub>18</sub> )	1 (rimless)	96	20	8151-31	
Octyl (C <sub>8</sub> )	1 (rimless)	96	20	8154-31	

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Columns

Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
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### SPEEDISK 96 SILICA COLUMNS (incl. holder)

	Extraction Column Size (ml)	Quantity per Box	Sorbent Weight (mg)	Product Number
PEI WP	1 (rimless)	96	20	8178-31
Phenyl (C <sub>6</sub> H <sub>5</sub> )	1 (rimless)	96	20	8160-31
PolarPlus Octadecyl (C <sub>18</sub> )	1 (rimless)	96	20	8153-31
PolarPlus Octyl (C <sub>8</sub> )	1 (rimless)	96	20	8156-31
Quarternary Amine (N <sup>+</sup> )	1 (rimless)	96	20	8168-31
Silica	1 (rimless)	96	20	8163-31

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk extraction products

Quantity per box	Product Number
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### BAKERBOND SPEEDISKS EXTRACTION DISKS

<b>C<sub>18</sub> (octadecyl)</b> 50 mm disks for normal water-samples 50 mm disks for water samples, High capacity	20	8055-06	
	20	8055-07	
<b>C<sub>18</sub> Polar Plus</b> 50 mm disks for water-samples containing slightly polar to non-polar analytes	20	8061-06	
<b>C<sub>18</sub> XF (Extra filter)</b> 50 mm disks for crude and dirty samples.	20	8056-06	
<b>C<sub>8</sub> (octyl)</b> 50 mm disks for diquat/paraquat.	20	8057-06	
<b>H<sub>2</sub>O Philic DVB (DiVinylBenzene)</b> 50 mm disks for non-polar to polar analytes 50 mm disks, High capacity	20	8072-06	
	20	8072-07	
<b>H<sub>2</sub>O-Phobic DVB (DiVinylBenzene)</b> 50 mm disks for non-polar to moderately polar analytes 50 mm disks, High capacity	20	8068-06	
	20	8068-07	
<b>Oil &amp; Grease</b> 50 mm disks for hydrocarbons/Oil & Grease.	20	8060-06	
<b>SAX (Strong Anion Exchanger)</b> 50 mm disks for haloacetic acids/Dalapon.	20	8058-06	

### SPEEDISK ADAPTERS

<b>Adapters</b> Connection of disks to vacuum flask and many other vacuum manifolds (such as Nalge and Contes). Adapter ring for 40-35 tapered outer joint	1	8070-01	
	6	8100-06	
<b>Remote sample adapter</b> For transfer of sample from remote container.	6	8099-06	

### SPEEDISK EXTRACTION STATIONS

<b>Compact extraction station</b> Six-port processing system. (three side-by-side 1L sample reservoirs).	1	8094-06	
<b>Expanded extraction station</b> Six-port processing system. (six side-by-side 1L sample reservoirs).	1	8095-06	
<b>Single extraction station</b> single-port processing system.	1	8093-01	

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk extraction products

Quantity per box	Product Number
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### SPEEDISK RESERVOIRS

	Quantity per box	Product Number
<b>185 ml Reservoir</b> Holds inverted 1L reservoir or 185 ml sample.	6	8097-06
<b>1L Glass reservoir</b> 1L sample reservoir, fits into a Speedisk extraction disk.	1	8098-01
<b>70 mm/Mason Jar Adaptor</b> Enables inverted geed directly to extraction disk from sample jar	4	8102-04
<b>Collection chamber (includes sample vial)</b>	2	8096-02
<b>Collection Vials (Sample vials)</b>	100	8102-01
<b>Sample tray</b> Holds up to four 1L bottles at a tilt to ensure complete sample uptake by remote sample adapter suction tube.	1	8101-01

# Solid Phase Extraction BAKERBOND Speedisk

## BAKERBOND Speedisk Processing Systems System Accessories

Product  
Number

### BAKERBOND Speedisk PROCESSING SYSTEMS

Speedisk 48 Positive Pressure Processor	8118-00	
Speedisk 96 Positive Pressure Processor	8129-00	

### GENERAL ACCESSORIES for Speedisk 48 and Speedisk 96

Gas Supply Adapter, 6 ft. length of 1/4" tubing and 1/8" -1/4" adapter fittings	8128-01	
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### Speedisk 48 ACCESSORIES

Collection Tube Rack, 12 x 75 mm Tubes	8119-01	
Collection Tube Rack, 13 x 100 mm Tubes	8120-01	
Collection Tube Rack, 16 x 100 mm Tubes	8121-01	
Rack for 1 ml SPE Columns	8122-01	
Rack for 3 ml SPE Columns	8123-01	
Rack for 6 ml SPE Columns	8124-01	
Collection Vial Rack, 12 x 32 mm Auto-Sampler	8125-01	
Waste Bin	8126-01	
48-Column Sealing Gasket	8127-01	

### Speedisk 96 ACCESSORIES

96-Column Sealing Gasket	8130-01	
2 ml x 96 Well Collection Tray	8131-96	
Speedisk 96 Column Holder	8150-00	
1 ml x 96 Well Collection Tray	8188-96	
10 ml x 24 Well Collection Tray	8197-24	

# General Chromatography Summary

## HPLC Columns

Å	column size (mm)	micron	Product Number
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### ADSORPTION HPLC COLUMNS

Silica Gel (SiOH)	Å	column size (mm)	micron	Product Number
	120	4.6 x 150	5	7097-01
	120	4.6 x 50	3	7161-05

### NORMAL PHASE HPLC COLUMNS

Cyano (CN)	Å	column size (mm)	micron	Product Number
	120	4.6 x 250	5	7111-00

### REVERSED PHASE HPLC COLUMNS

Octadecyl (C <sub>18</sub> BDC)	Å	column size (mm)	micron	Product Number
	120	4.6 x 250	5	7441-00
with guard	120	4.6 x 150	5	7441-01
with guard	120	4.6 x 250	5	7441-02
with guard	120	4.6 x 150	5	7441-03
with guard	120	4.6 x 150	3	7441-08
Replacement guard cartridges	120		5	7442-05
Octadecyl (C <sub>18</sub> )	Å	column size (mm)	micron	Product Number
	120	4.6 x 250	5	7098-00
	120	4.6 x 150	5	7098-01
	120	4.6 x 50	3	7160-05
Octyl (C <sub>8</sub> )	Å	column size (mm)	micron	Product Number
	120	4.6 x 250	5	7109-00

### SPECIAL APPLICATION HPLC COLUMNS

Bakerbond ENV	Å	column size (mm)	micron	Product Number
Replacement column for Bakerbond ENV	120	4.6 x 150	5	7445-01
Bakerbond ENV with guard (4.6x10 mm)	120	4.6 x 150	5	7446-01
Replacement guard cartridges (2) for Bakerbond ENV	120	4.6 x 10	5	7448-01
Bakerbond PAH 16 plus	Å	column size (mm)	micron	Product Number
Bakerbond PAH 16 plus including guard column, manufit connection system and certificate of analysis	120	3 x 250	5	7504-00
Replacement guard cartridges for Bakerbond PAH 16 plus (3)	120	3 x 20	5	7505-00
Replacement column for Bakerbond PAH 16 plus including certificate of analysis	120	3 x 250	5	7506-00



# General Chromatography Summary

## Bulk Packings

	Å	micron	Pkg Size	Product Number	
<b>ADSORPTION</b>					
Silica Gel (SiOH)	60	40	5 kg	7024-00	
	60	40	1 kg	7024-01	
	60	40	25 kg	7024-02	
	60	40	500 g	7024-05	
	60	40	125 g	7024-09	
	150	10	10 g	7048-01	
<b>ION EXCHANGE</b>					
Aromatic Sulfonic Acid (C <sub>6</sub> H <sub>5</sub> SO <sub>3</sub> H)	60	40	100 g	7046-00	
Carboxylic Acid (COOH)	60	40	100 g	7044-00	
Diamino (NH/NH <sub>2</sub> )	60	40	100 g	7042-00	
Quaternary Amine (N <sup>+</sup> )	60	40	100 g	7043-00	
Sulfonic Acid (SO <sub>3</sub> H)	60	40	100 g	7045-00	
<b>NORMAL PHASE</b>					
Amino (NH <sub>2</sub> )	60	40	100 g	7028-00	
	60	40	1 kg	7028-01	
	150	10	10 g	7052-01	
	120	5	10 g	7070-01	
Diol (COHCOH)	60	40	100 g	7047-00	
	60	40	1 kg	7047-01	
<b>REVERSED PHASE</b>					
Butyl (C <sub>4</sub> )	60	40	100 g	7037-00	
	150	10	10 g	7055-01	
Cyano (CN)	60	40	100 g	7027-00	
	150	10	10 g	7051-01	
	120	5	10 g	7069-01	
Cyclohexyl (C <sub>6</sub> H <sub>11</sub> )	150	10	10 g	7057-01	
Ethyl (C <sub>2</sub> )	60	40	100 g	7199-00	
	60	40	1 kg	7199-01	

# General Chromatography Summary

## Bulk Packings

Å	micron	Pkg Size	Product Number
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### REVERSED PHASE

Octadecyl (C <sub>18</sub> )	60	40	100 g	7025-00
	60	40	1 kg	7025-01
	150	10	10 g	7049-01
Octadecyl (C <sub>18</sub> ), High Hydrophobic	60	40	100 g	7243-00
Octadecyl (C <sub>18</sub> ), Polar Plus	60	40	100 g	7465-00
	60	40	1 kg	7465-01
	60	40	20 g	7465-02
Octyl (C <sub>8</sub> )	60	40	100 g	7026-00
	150	10	10 g	7050-01
	120	5	10 g	7068-01
Phenyl(C <sub>6</sub> H <sub>5</sub> )	60	40	100 g	7040-00
	150	10	10 g	7058-01
	120	5	10 g	7076-01
Styrene divinyl benzene (SDB 1)			100 g	7530-00

### SPECIAL APPLICATIONS

Florisil. SPE sorbent for clean-up columns. Suitable for determination of Hydrocarbon Oil Index according ISO-9377-2 and NEN 5733			100 g	7061-00
Magnesium Sulfate Heptahydrate. Suitable for the determination of Hydrocarbon Oil Index according ISO-9377-2 and NEN 5377. Avoids formation of emulsions			100g-500g-1kg	0168
Sodium Sulfate Anhydrous. SPE sorbent for clean-up columns. Suitable for determination of Hydrocarbon Oil Index according ISO-9377-2 and NEN 5733			100 g	3377-00

# Biochromatography Summary

## HPLC Columns HPLC Columns Accessories

	Å	micron	Size (mm)	Product Number
<b>GUARD COLUMNS (empty)</b>				
<b>Guard Columns</b> Recommended for use with columns ID 10.0 mm Recommended for use with columns ID 21.2 mm Recommended for use with columns ID 50.8 mm			4.6 x 50 10.0 x 50 21.2 x 100	7128-02 7128-04 7128-08
<b>HYDROPHOBIC INTERACTION</b>				
<b>WP HI-Propyl (C<sub>3</sub>)</b> STANDARD VERSA-TEN SEMI-PREP	300 300 300	5 5 15	4.6 x 250 7.75 x 100 10 x 250	7276-00 7276-06 7277-00
<b>ION EXCHANGE HPLC COLUMNS</b>				
<b>ABx (antibody exchanger)</b> SEMI-PREP PREP	300 300	15 15	10 x 250 21.2 x 250	7272-00 7272-43
<b>WP CARBOXY-SULFON (weak-strong cation exchanger)</b> STANDARD SCOUT SEMI-PREP	300 300 300	5 5 15	4.6 x 250 4.6 x 50 10 x 250	7159-00 7159-05 7274-00
<b>WP CBX (weak cation exchanger)</b> STANDARD VERSA-TEN SEMI-PREP	300 300 300	5 5 15	4.6 x 250 7.75 x 100 10 x 250	7114-00 7114-06 7279-00
<b>WP DEAM (weak anion exchanger)</b> VERSA-TEN SEMI-PREP	300 300	5 15	7.75 x 100 10.0 x 250	7474-06 7475-39
<b>WP PEI (weak anion exchanger)</b> SEMI-PREP	300	15	10 x 250	7278-00
<b>WP QUAT (strong anion exchanger)</b> SCOUT VERSA-TEN SEMI-PREP	300 300 300	5 5 15	4.6 x 50 7.75 x 100 10.0 x 250	7158-05 7158-06 7275-00
<b>REVERSED PHASE HPLC COLUMNS</b>				
<b>WP Butyl (C<sub>4</sub>)</b> STANDARD VERSA-TEN SEMI-PREP SEMI-PREP PREP	300 300 300 300 300	5 5 5 15 15	4.6 x 250 7.75 x 100 10 x 250 10 x 250 21.2 x 250	7116-00 7116-06 7116-39 7280-00 7280-43
<b>WP Diphenyl ((C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>)</b> SEMI-PREP	300	15	10 x 250	7298-39

# Biochromatography Summary

## HPLC Columns HPLC Columns Accessories

Å	micron	Size (mm)	Product Number
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### REVERSED PHASE HPLC COLUMNS

	Å	micron	Size (mm)	Product Number
<b>WP Octadecyl (C<sub>18</sub>)</b>				
STANDARD	300	5	4.6 x 250	7104-00
STANDARD-TEN	300	5	4.6 x 100	7104-01
SEMI PREP	300	5	10.0 x 250	7104-39
SEMI-PREP	300	15	10.0 x 250	7297-00
PREP	300	15	21.2 x 250	7297-43
PREP	300	15	50.8 x 250	7297-47
<b>WP Octyl (C<sub>8</sub>)</b>				
STANDARD-TEN	300	5	4.6 x 100	7105-01
SEMI-PREP	300	15	10 x 250	7296-39

# Biochromatography Summary

## Bulk Packings

	Å	micron	Pkg Size	Product Number
<b>AFFINITY</b>				
Glutaraldehyde-P	300	40	100 g	7567-00
	300	40	10 g	7567-02
	300	40	500 g	7567-05
Glutaraldehyde-P	500	40	1 kg	7568-01
	500	40	10 g	7568-02
<b>ION EXCHANGE</b>				
ABx (antibody exchanger)	300	5	1 g	7154-01
	300	15	100 g	7157-00
	300	15	10 g	7157-02
	300	15	500 g	7157-05
	275	40	100 g	7269-00
	275	40	10 g	7269-02
	275	40	500 g	7269-05
ABx (antibody exchanger) 500 Å	300	15	100 g	7182-00
	300	15	10 g	7182-02
	300	15	500 g	7182-05
	275	40	100 g	7285-00
	275	40	10 g	7285-02
	275	40	500 g	7285-05
	300	5	1 g	7291-01
ABx Plus (antibody exchanger)	275	40	100 g	7254-00
	275	40	10 g	7254-02
	275	40	500 g	7254-05
WP CARBOXY-SULFON (weak-strong cation exchanger)	300	15	10 g	7184-02
	275	40	100 g	7252-00
	275	40	10 g	7252-02
	275	40	500 g	7252-05
WP CBX (weak cation exchanger)	300	5	1 g	7136-01
	300	15	100 g	7181-00
	300	15	10 g	7181-02
	300	15	500 g	7181-05
	275	40	100 g	7263-00
	275	40	10 g	7263-02
	275	40	500 g	7263-05
WP DEAM (weak anion exchanger)	300	15	10 g	7472-02
	275	40	100 g	7473-00
	275	40	10 g	7473-02
	275	40	500 g	7473-05

# Biochromatography Summary

## Bulk Packings

Å	micron	Pkg Size	Product Number
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### ION EXCHANGE

Media	Å	micron	Pkg Size	Product Number
WP PEI (weak anion exchanger)	300	5	1 g	7134-01
	300	15	100 g	7180-00
	300	15	10 g	7180-02
	300	15	500 g	7180-05
	275	40	100 g	7264-00
	275	40	1 kg	7264-01
	275	40	10 g	7264-02
	275	40	500 g	7264-05
WP QUAT (strong anion exchanger)	300	15	10 g	7183-02
	275	40	100 g	7251-00
	275	40	10 g	7251-02
	275	40	500 g	7251-05

### REVERSED PHASE CHROMATOGRAPHY MEDIA

Media	Å	micron	Pkg Size	Product Number
WP Butyl (C <sub>4</sub> )	300	5	1 g	7137-01
	300	15	100 g	7179-00
	300	15	10 g	7179-02
	300	15	500 g	7179-05
	275	40	100 g	7283-00
	275	40	10 g	7283-02
	275	40	500 g	7283-05
WP Cyano (CN)	300	5	1 g	7129-01
WP Diphenyl ((C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> )	300	15	100 g	7192-00
	300	15	10 g	7192-02
	300	15	500 g	7192-05
WP Octadecyl (C <sub>18</sub> )	300	5	1 g	7133-01
	300	5	50 g	7133-06
	300	15	100 g	7191-00
	300	15	10 g	7191-02
	300	15	500 g	7191-05
	300	15	100 g	7207-00
	300	15	10 g	7207-02
	300	15	500 g	7207-05
	275	40	100 g	7248-00
	275	40	10 g	7248-02
	275	40	500 g	7248-05
	WP Octyl (C <sub>8</sub> )	300	5	1 g

# Biochromatography Summary

## Bulk Packings

	Å	micron	Pkg Size	Product Number	
<b>WIDE-PORE SILICA</b>					
WP Silica	1000	40	1 kg	7315-01	
	1000	40	10 g	7315-02	
WP Silica	500	40	1 kg	7314-01	
	500	40	10 g	7314-02	

# General Chromatography Summary

## Flash Chromatography Columns Column Accessories

Column Size	Joint Size	Single Pass Sample Size on Silica Gel	Product Number
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### J.T. BAKER FLASH CHROMATOGRAPHY COLUMN ACCESSORIES

Flash Chromatography Accessories	Column Size	Joint Size	Single Pass Sample Size on Silica Gel	Product Number
Silanized Glass Wool	50 g			7084-05
Reservoir for use with 100 ml column	500 ml			7092-00
Reservoir for use with 250 ml and 450 ml column	500 ml			7092-04
Reservoir for use with 650 ml column (includes an extra clamp)	1 l			7092-06
Flow Controller Replacement for use with 100 ml column				7118-01
Flow Controller Replacement for use with 250 ml and 450 ml column				7118-04
Flow Controller Replacement for use with 650 ml column				7118-06

### J.T. BAKER FLASH CHROMATOGRAPHY COLUMNS

Flash Chromatography Columns	Column Size	Joint Size	Single Pass Sample Size on Silica Gel	Product Number
19 mm I.D. x 35.6 cm length (includes 20 g C <sub>18</sub> bonded phase)	100 ml	35/20	0-350 mg	7022-01
30 mm I.D. x 36.8 cm length (includes 45 g silica gel)	250 ml	50/30	0-600 mg	7022-02
33 mm I.D. x 52.7 cm length (includes 80 g silica gel)	450 ml	50/30	0-750 mg	7022-04
37 mm I.D. x 61.0 cm length (includes 125 g silica gel)	650 ml	65/40	0-1000 mg	7022-06



# Chiral Chromatography Summary

## HPLC Columns

Column Size (mm)	micron	Product Number
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### PIRKLE-TYPE HPLC COLUMNS AND PACKINGS

	Column Size (mm)	micron	Product Number
<b>α-Naphtyl Urea</b>	4.6 x 250	5	7309-00
<b>(R) DNBPG (Covalent)</b>	4.6 x 250	5	7113-00
<b>(R) DNBPG(ionic)</b>	4.6 x 250	5	7103-00

### PROTEIN-TYPE HPLC COLUMN

	Column Size (mm)	micron	Product Number
<b>CHIRAL-AGP</b>	4.0 x 100	5	7165-00
	3.0 x 100	5	7165-01
	3.0 x 150	5	7165-02
	2.0 x 100	5	7165-03
	2.0 x 150	5	7165-04
	4.0 x 50	5	7165-26
	4.0 x 150	5	7165-30
	Guard Column 3 x 10	5	7400-00
	Guard Column 2 x 10	5	7400-01
	Semi-Prep 10.0 x 100	5	7404-07
	Semi-Prep 10.0 x 150	5	7404-08
Semi-Prep 10.0 x 100	5	7404-37	
Semi-Prep 10.0 x 150	5	7404-38	
<b>CHIRAL-CBH</b>	Guard Column 3 x 10	5	7496-00
	Guard Column 2 x 10	5	7496-01
	4.0 x 50	5	7496-25
	3.0 x 100	5	7496-28
	4.0 x 100	5	7496-29
	4.0 x 150	5	7496-30
	<b>CHIRAL-HSA</b>	Guard Column 3 x 10	5
3.0 x 100		5	7401-01
4.0 x 100		5	7401-29
4.0 x 150		5	7401-30
<b>General Accessories</b>		Guard Column Holder	
	Guard Column Coupler		CON-2

# Thin Layer Chromatography Summary

## BAKER Pre-Coated Hard Layer TLC Plates

Plate Size (cm)	Quantity per Box	Product Number
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### SILICA GEL PLATES 250 $\mu\text{m}$ Analytical Layer

	Plate Size (cm)	Quantity per Box	Product Number
<b>TLC Plate With Fluorescent Indicator</b> BAKER Si250F	5 x 20	100	7001-00
BAKER Si250F	10 x 20	50	7001-03
BAKER Si250F	20 x 20	25	7001-04
<b>TLC Plate With Fluorescent Indicator</b> BAKER Si250F-PA	20 x 20	25	7004-04
BAKER Si250F (19C)	20 x 20	25	7007-04
BAKER Si250F-PA	20 x 20	25	7010-04
<b>TLC Plate Without Fluorescent Indicator</b> BAKER Si250	10 x 20	50	7000-03
BAKER Si250	20 x 20	25	7000-04
<b>TLC Plate Without Fluorescent Indicator</b> BAKER Si250-PA	20 x 20	25	7003-04
BAKER Si250 (19C)	20 x 20	25	7005-04
BAKER Si250-PA (19)	20 x 20	25	7009-04

### SILICA GEL PLATES 500 $\mu\text{m}$ Preparative Layer

<b>TLC Plate With Fluorescent Indicator</b> BAKER Si500F	20 x 20	20	7002-05
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### SILICA GEL PLATES High Performance TLC, 200 $\mu\text{m}$ Analytical Layer

<b>TLC Plate With Fluorescent Indicator</b> BAKER SiHPF	10 x 20	50	7011-03
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### SILICA GEL PLATES - Reversed Phase, Octadecyl (C18), 200 $\mu\text{m}$ Analytical Layer

<b>TLC Plate With Fluorescent Indicator</b> BAKER Si-C <sub>18</sub> F	20 x 20	25	7013-04
<b>TLC Plate Without Fluorescent Indicator</b> BAKER Si-C <sub>18</sub>	20 x 20	25	7012-04



# Trademarks

The following list of trademarks is accurate to the best of our knowledge at the time of printing. Any errors brought to our attention will be corrected in the next issue of this catalogue. Please contact the trademark owners or public resources for specific information about these trademarks.

## Trademarks of Mallinckrodt Baker, Inc.\*

AGILE  
ANHYDRONE  
BAKER  
BAKER ALEG  
BAKER ANALYZED  
BAKER BIO-ANALYZED  
BAKERBOND  
BAKERBOND ABx  
BAKERBOND spe  
BAKERBOND Speedisk  
BAKERBOND Wide-Pore  
BakerDRY  
BakerClean  
Baker-flex  
BAKER INSTRA-ANALYZED  
BAKER PRS-1000  
BAKER PRS-3000  
BAKER REZI  
CARBOXY-SULFON  
CYCLE-TAINER  
DESICCHLORA  
DILUT-IT  
DISKMATE  
DUAL-TINT  
Flowmor  
GelTwin  
Global Pharma

GRANUSIC  
HYDRA-POINT  
narc  
NEUTRACIT  
NEUTRASORB  
pCMP  
PolarPlus  
QUAT  
RESISORB  
Right From the Start  
SAFETAINER  
SOLUSORB  
*Speedisk*  
ULTRA RESI-ANALYZED  
ULTREX  
VLSI  
*Part of a pure process*

## Trademarks of Mallinckrodt Baker B.V. Deventer

CyMet  
DetectoTerge  
Diluid  
Lyzeroglobin  
ProClean  
Rapid Stat  
UltraClear  
UltraKitt  
UltraPar

**The following Registered Trademarks of the companies indicated appear in this catalogue**

Brij	ICI Americas, Inc.
Celite	Celite Corporation
CELLOSOLVE	Union Carbide Corporation
COOMASSIE	BASF Aktiengesellschaft Inc.
Coulter	Coulter Electronics Inc.
Dowex	Dow Chemical Company
Florisil	Floridin Company
Freon	E.I.duPont deNemours Company
Hyamine	Lonza, Inc.
Responsible Care	Chemical Manufacturers Association
Sephadex	Pharmacia Biotech
Systemex	Toa Medical Electronics Co., Ltd.
Teflon	E.I.duPont deNemours Company
Tergitol	Union Carbide Corporation
Triton	Union Carbide Corporation
Tween	ICI Americas, Inc.

**The following Trademarks of the companies indicated appear in this catalogue**

CHIRAL-AGP	Chrom Tech AB
CHIRAL-HAS	Chrom Tech AB

**Service marks of Mallinckrodt Baker, Inc.**

Solv-IT  
Solv-IT Center

**Design marks of Mallinckrodt Baker, Inc.**



# Risk and Safety phrases

## List of Risk phrases

R1	Explosive when dry.	R42/43	May cause sensitization by inhalation and skin contact.
R2	Risk of explosion by shock, friction, fire or other sources of ignition.	R43	May cause sensitization by skin contact.
R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition.	R44	Risk of explosion if heated under confinement.
R4	Forms very sensitive explosive metallic compounds.	R45	May cause cancer.
R5	Heating may cause an explosion.	R46	May cause heritable genetic damage.
R6	Explosive with or without contact with air.	R48	Danger of serious damage to health by prolonged exposure.
R7	May cause fire.	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R8	Contact with combustible material may cause fire.	R48/20/21	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R9	Explosive when mixed with combustible material.	R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R10	Flammable.	R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R11	Highly flammable.	R48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
R12	Extremely flammable.	R48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R14	Reacts violently with water.	R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R14/15	Reacts violently with water, liberating extremely flammable gases.	R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R15	Contact with water liberates extremely flammable gases.	R48/23/24	Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R15/29	Contact with water liberates toxic, extremely flammable gas.	R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R16	Explosive when mixed with oxidizing substances.	R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R17	Spontaneously flammable in air.	R48/24	Toxic: danger of serious damage to health by prolonged exposure in contact with skin.
R18	In use, may form flammable/explosive vapour-air mixture.	R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R19	May form explosive peroxides.	R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R20	Harmful by inhalation.	R49	May cause cancer by inhalation.
R20/21	Harmful by inhalation and in contact with skin.	R50	Very toxic to aquatic organisms.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R20/22	Harmful by inhalation and if swallowed.	R51	Toxic to aquatic organisms.
R21	Harmful in contact with skin.	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R21/22	Harmful in contact with skin and if swallowed.	R52	Harmful to aquatic organisms.
R22	Harmful if swallowed.	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R23	Toxic by inhalation.	R53	May cause long-term adverse effects in the aquatic environment.
R23/24	Toxic by inhalation and in contact with skin.	R54	Toxic to flora.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.	R55	Toxic to fauna.
R23/24/25E	Also toxic by inhalation, in contact with skin and if swallowed.	R56	Toxic to soil organisms.
R23/25	Toxic by inhalation and if swallowed.	R57	Toxic to bees.
R23/25E	Also toxic by inhalation and if swallowed.	R58	May cause long-term adverse effects in the environment.
R24	Toxic in contact with skin.	R59	Dangerous for the ozone layer.
R24/25	Toxic in contact with skin and if swallowed.	R60	May impair fertility.
R25	Toxic if swallowed.	R61	May cause harm to the unborn child.
R26	Very toxic by inhalation.	R62	Possible risk of impaired fertility.
R26/27	Very toxic by inhalation and in contact with skin.	R63	Possible risk of harm to the unborn child.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.	R64	May cause harm to breastfed babies
R26/28	Very toxic by inhalation and if swallowed.	R65	Harmful: may cause lung damage if swallowed.
R27	Very toxic in contact with skin.	R66	Repeated exposure may cause skin dryness or cracking.
R27/28	Very toxic in contact with skin and if swallowed.	R67	Vapours may cause drowsiness and dizziness.
R28	Very toxic if swallowed.	R68	Possible risks of irreversible effects.
R29	Contact with water liberates toxic gas.	R68/20	Harmful: possible risk of irreversible effects through inhalation.
R30	Can become highly flammable in use.	R68/20/21	Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
R31	Contact with acids liberates toxic gas.	R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
R32	Contact with acids liberates very toxic gas.	R68/20/22	Harmful: possible risk of irreversible effects through inhalation and if swallowed.
R33	Danger of cumulative effects.	R68/21	Harmful: possible risk of irreversible effects in contact with skin.
R34	Causes burns.	R68/21/22	Harmful: possible risk of irreversible effects in contact with skin and if swallowed.
R35	Causes severe burns.	R68/22	Harmful: possible risk of irreversible effects if swallowed.
R36	Irritating to eyes.		
R36/37	Irritating to eyes and respiratory system.		
R36/37/38	Irritating to eyes, respiratory system and skin.		
R36/38	Irritating to eyes and skin.		
R37	Irritating to respiratory system.		
R37/38	Irritating to respiratory system and skin.		
R38	Irritating to skin.		
R39	Danger of very serious irreversible effects.		
R39/23	Toxic: danger of very serious irreversible effects through inhalation.		
R39/23/24	Toxic: danger of very serious irreversible effects through inhalation and in contact with skin.		
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.		
R39/23/25	Toxic: danger of very serious irreversible effects through inhalation and if swallowed.		
R39/24	Toxic: danger of very serious irreversible effects in contact with skin.		
R39/24/25	Toxic: danger of very serious irreversible effects in contact with skin and if swallowed.		
R39/25	Toxic: danger of very serious irreversible effects if swallowed.		
R39/26	Very toxic: danger of very serious irreversible effects through inhalation.		
R39/26/27	Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin.		
R39/26/27/28	Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.		
R39/26/28	Very toxic: danger of very serious irreversible effects through inhalation and if swallowed.		
R39/27	Very toxic: danger of very serious irreversible effects in contact with skin.		
R39/27/28	Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed.		
R39/28	Very toxic: danger of very serious irreversible effects if swallowed.		
R40	Limited evidence of a carcinogenic effect.		
R41	Risk of serious damage to the eyes.		
R42	May cause sensitization by inhalation.		

## List of Safety phrases

S1	Keep locked up.	S48	Keep wetted with . . . (appropriate material to be specified by the manufacturer).
S1/2	Keep locked up and out of reach of children.	S49	Keep only in the original container.
S2	Keep out of reach of children.	S50	Do not mix with . . . (to be specified by the manufacturer).
S3	Keep in a cool place.	S51	Use only in well ventilated areas.
S3/7	Keep container tightly closed in a cool place.	S52	Not recommended for interior use on large surface areas.
S3/9/14	Keep in a cool, well ventilated place away from...(incompatible materials to be indicated by the manufacturer)	S53	Avoid exposure - obtain special instructions before use.
S3/9/14/49	Keep only in the original container in a cool well ventilated place away from . . . (incompatible materials to be indicated by the manufacturer)	S56	Dispose of this material and its container at hazardous or special waste collection point.
S3/9/49	Keep only in the original container in a cool well ventilated place.	S57	Use appropriate container to avoid environmental contamination.
S3/14	Keep in a cool place away from . . . (incompatible materials to be indicated by the manufacturer).	S59	Refer to manufacturer/supplier for information on recovery/recycling.
S4	Keep away from living quarters.	S5A	Keep contents under paraffin oil.
S5	Keep contents under water.	S5B	Keep contents under petroleum.
S6	Keep under (inert gas to be specified by the manufacturer)	S60	This material and/or its container must be disposed of as hazardous waste.
S7	Keep container tightly closed.	S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S7/8	Keep container tightly closed and dry.	S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
S7/9	Keep container tightly closed and in a well-ventilated place.	S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest
S7/47	Keep container tightly closed and at a temperature not exceeding . . . C.	S64	If swallowed, rinse mouth with water (only if the person is conscious)
S8	Keep container dry.		
S9	Keep container in a well-ventilated place.		
S12	Do not keep the container sealed.		
S13	Keep away from food, drink and animal feedingstuffs.		
S14	Keep away from highly flammable substances.		
S15	Keep away from heat.		
S16	Keep away from sources of ignition - No Smoking.		
S17	Keep away from combustible material.		
S18	Handle and open container with care.		
S20	When using do not eat or drink.		
S20/21	When using do not eat, drink or smoke.		
S21	When using do not smoke.		
S22	Do not breathe dust.		
S23	Do not breathe gas/fumes/vapour/spray		
S23A	Do not breathe vapour.		
S24	Avoid contact with skin.		
S24/25	Avoid contact with skin and eyes.		
S25	Avoid contact with eyes.		
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
S27	Take off immediately all contaminated clothing.		
S27/28	After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of . . . (to be specified by the manufacturer)		
S28	After contact with skin wash immediately with plenty of water.		
S28A	After contact with skin wash skin immediately with water and soap.		
S28B	After contact with skin, wash immediately with plenty of copper sulfate solution 2%.		
S28C	After contact with skin, wash immediately with plenty of polyethylene glycol 400, then rinse with plenty of water.		
S29	Do not empty into drains.		
S29/35	Do not empty into drains; dispose of this material and its container in a safe way.		
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.		
S30	Never add water to this product.		
S33	Take precautionary measures against static discharges.		
S35	This material and its container must be disposed of in a safe way.		
S36	Wear suitable protective clothing.		
S36/37	Wear suitable protective clothing and gloves.		
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.		
S36/39	Wear suitable protective clothing and eye/face protection.		
S37	Wear suitable gloves.		
S37/39	Wear suitable gloves and eye/face protection.		
S38	In case of insufficient ventilation, wear suitable respiratory equipment.		
S39	Wear eye/face protection.		
S40	To clean the floor and all objects contaminated by this material, use . . . (to be specified by the manufacturer).		
S41	In case of fire and/or explosion do not breathe fumes.		
S41A	In case of fire do not breathe fumes.		
S42	During fumigation/spraying wear suitable respiratory equipment.		
S43A	In case of fire, use special extinguish powder or dry sand. - NEVER use water.		
S43B	In case of fire use large amounts of water, dry sand, special powder.		
S43C	In case of fire use powder, waterspray, foam, halons, carbon dioxide.		
S43D	In case of fire use large amounts of water.		
S43h	In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.		
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).		
S46	If swallowed, seek medical advice immediately and show this container or label.		
S47	Keep at temperature not exceeding . . . C (to be specified by the manufacturer).		
S47/49	Keep only in the original container at temperature not exceeding . . . (to be specified by the manufacturer).		

# General conditions Mallinckrodt Baker B.V.<sup>1)</sup>

Deventer, The Netherlands (EU), June 2005

## Article 1

### General

In these general conditions, the following terms are understood to have the following meanings:

#### Agreement:

every agreement entered into between Mallinckrodt Baker and Customer, all amendments and/or supplements thereto, and all (legal) acts to prepare to and to carry out an Agreement;

#### Customer:

a party who places Orders with Mallinckrodt Baker, buys the Products of Mallinckrodt Baker and/or concludes an Agreement with Mallinckrodt Baker;

#### Mallinckrodt Baker:

Mallinckrodt Baker B.V., a private company with limited liability incorporated under the laws of The Netherlands, having its registered office and principal place of business in Deventer;

#### Offer:

an offer or tender of Mallinckrodt Baker, including but not limited to delivery-, quality-, and payment details and/or specifications inserted therein, whether oral or in writing, being an invitation to Customer to place an Order;

#### Order:

every order of Customer, whether oral or in writing;

#### Order Acknowledgment:

acceptance of an Order by Mallinckrodt Baker, including but not limited to delivery-, quality-, and payment details and/or specifications inserted therein, including in default of a specific Order Acknowledgement any invoice following the (actual) execution of an Order and so replacing such Order Acknowledgement;

#### Products:

all products manufactured, marketed and/or distributed by Mallinckrodt Baker that are subject to an Agreement.

## Article 2

### Applicability

- 2.1 These general conditions are applicable to all Agreements and are also applicable to all Offers, Orders and Order Acknowledgements, however named. References made in an Agreement, Offer and/or Order Acknowledgement which are an apparent mistake, do not bind Mallinckrodt Baker and do not give Customer any action against Mallinckrodt Baker.
- 2.2 The applicability of any other general terms and conditions used by Customer or referred to by Customer in any way is hereby explicitly excluded and declared not to be applicable.
- 2.3 Apart from provisions of mandatory (rules of) law, the contents of an Agreement shall exclusively be formed by the contents of the Order Acknowledgement and/or invoice following an Order and these general conditions. Stipulations varying from these general conditions must be expressly agreed upon in writing in the Agreement.
- 2.4 If any provision of these general conditions is held to be illegal, void or unenforceable by a court of competent jurisdiction, the other provisions of these general conditions shall remain in full force and effect and the provision(s) that is/are held to be illegal, void or unenforceable shall be deemed to have been replaced by a provision which - as closely as possible - meets the intention of Mallinckrodt Baker when inserting the original provision.

## Article 3

### Offers, Orders, Order Acknowledgements, Agreements

- 3.1 All Offers shall be valid during thirty (30) days, unless a longer or shorter term is stipulated in the Offer and are always made without any

obligation and are subject to the approval of Mallinckrodt Baker, unless explicitly stated otherwise. Offers are therefore not more than an invitation to Customer to place an Order.

- 3.2 In case Customer places an Order, regardless whether or not Mallinckrodt Baker made a prior Offer, an Agreement will only be realized after Mallinckrodt Baker has confirmed this Order, by means of an Order Acknowledgement, or as soon as Mallinckrodt Baker will actually carry out the Order. As from that moment, Customer and Mallinckrodt Baker shall be deemed to have entered into an Agreement, unless Customer immediately declares in writing that he does not accept the contents of the Order Acknowledgement.
- 3.3 Modifications and/or supplements of an Order Acknowledged and/or an Agreement can only be made by an instrument in writing duly signed by Mallinckrodt Baker and Customer.

## Article 4

### Establishment Weight and Quantity

- 4.1 Measurements and weighting as mentioned by Mallinckrodt Baker on the submitted measurement and weight certificate shall be decisive for the contents of the Agreement and therefore subsequently decisive for invoicing and payment.
- 4.2 With respect to the Products delivered by Mallinckrodt Baker, in terms of measurement and/or weight a five (5) percent tolerance (upwards or downwards) shall be applied. This means that Customer shall not have any right of reclamation with respect to measurement and/or weight of the Products or other rights in case of deviations within the aforesaid limit of five (5) percent.

## Article 5

### Delivery and (transfer of) risk

- 5.1 Without prejudice to Article 7 hereunder, the delivery ('aflevering') of the Products shall be 'ex works', as defined in the Inco Terms as drawn up by the International Chamber of Commerce as in force at the time of the conclusion of the Agreement, unless another delivery clause is included in the Agreement. In case another delivery clause is agreed upon in the Agreement, the agreed delivery clause shall, in the absence of rules included in the INCO TERMS, with regard to its interpretation, be interpreted in accordance with the general accepted terms in trade in The Netherlands.
- 5.2 The delivery period mentioned in the Order Acknowledgement or otherwise indicated by Mallinckrodt Baker, shall start from the date of the Order Acknowledgement. This delivery period is only indicative and shall not be considered as a deadline, unless expressly agreed otherwise in writing. In case Mallinckrodt Baker does not deliver at the deadline of the indicative delivery period, Customer has the possibility to give notice of default ('ingebrekestelling') to Mallinckrodt Baker. Customer has neither the right to dissolve or to terminate the Agreement, unless, without prejudice to article 11 of these general conditions, Mallinckrodt Baker has exceeded the period of delivery after a notice of default of Customer to such extent, that it can not reasonably be expected that Customer shall maintain the Agreement, without Mallinckrodt Baker being obliged to pay damages. Mallinckrodt Baker shall inform Customer as soon as possible, in case it becomes apparent that Mallinckrodt Baker shall exceed the indicative delivery period.
- 5.3 In case Customer does not take possession of the Products by the time the Products are ready for delivery including but not limited to forwarding and/or shipment to Customer and Mallinckrodt Baker has confirmed this to Customer, the Products shall be deemed to be delivered and as from that moment the risk with regard to the



Products passes to Customer. Mallinckrodt Baker shall continue to hold the uncollected Products available for Customer and Mallinckrodt Baker shall store these Products at the expense and risk of Customer. Mallinckrodt Baker may always exercise its authority to sell the Products, as referred to in Article 90 of Book 6 of the Dutch Civil Code ('Burgerlijk Wetboek').

- 5.4 As soon as the Products are ready for delivery including but not limited to forwarding and/or shipment to Customer and Customer is informed thereof, or on the date on which the Agreement is terminated or dissolved pursuant to these conditions, the risk for all damage to be sustained by or on account of the Products shall be transferred to Customer, unless expressly agreed otherwise.
- 5.5 In case Mallinckrodt Baker organizes or arranges shipment of the Products to the Customer, Mallinckrodt Baker shall do so on behalf of the Customer and the Customer shall solely be responsible and liable for such shipment. Customer indemnifies and holds Mallinckrodt Baker harmless for all consequences of such shipment. Regardless of the foregoing, the previous paragraphs of this article shall at all times apply as regards the delivery of the Products.

## Article 6

### Transport and Packaging

- 6.1 In case means of transport and/or packaging is given on loan by Mallinckrodt Baker to Customer, the packaging conditions of the Association of Dutch Chemical Industry and the Federation of Traders in Chemical Products shall apply.
- 6.2 Loading or filling of means of transport and/or packaging made available by Customer shall be effected at Customer's risk, regardless whether such loading or filling and/or (other) means of transport or packaging were subject of advice by or on behalf of Mallinckrodt Baker, unless gross negligence or wilful intention of Mallinckrodt Baker.
- 6.3 If in the opinion of Mallinckrodt Baker the means of transport and/or the packaging do not meet the requirements imposed thereon for security and/or safety reasons, Mallinckrodt Baker shall be authorized to refuse to load or fill such means of transport and/or packaging. In that case Mallinckrodt Baker shall not be liable for whatever consequences, especially not for damage ensuing from delay. Article 5 Paragraph 3 shall be applicable mutatis mutandis.

## Article 7

### Retention of Title

- 7.1 Mallinckrodt Baker shall remain the owner of all Products sold to Customer, and the legal title of these Products shall as a result be retained, as long as Customer has not duly and adequately fulfilled all obligations resulting or arising from the Agreement (including but not limited to full payment). Delivery as referred to in article 5 above shall therefore only imply that Customer shall become the detentor ('houder') of the Products. Legal transfer of title ('juridische levering') shall be effected by and after full payment is made and all other obligations resulting or arising from the Agreement have been adequately and duly fulfilled. The foregoing also applies in case of partial deliveries.
- 7.2 Without explicit and written permission of Mallinckrodt Baker, Customer shall not be authorised to give third parties the use of the Products, to rent or pledge these, to transfer the title to the Products or to alienate or encumber the Products in any other way, until the ownership shall be transferred to Customer, even if that is part of the usual performance of his business or even if that is the usual destination of the Products. In case Customer contravenes these provisions, Customer shall be obliged to assign his claims against third parties relating to this alienation and/or encumbering of the Products to Mallinckrodt Baker up to the outstanding claims of Mallinckrodt Baker.
- 7.3 If Mallinckrodt Baker is unable to exercise its retention of title to the Products, as a result of the fact that Customer processes, forms or mixes delivered Products or has the same products processed, formed

or mixed into (new) products, Customer shall have to act in accordance with the instructions of Mallinckrodt Baker - as long as Customer has not fulfilled all obligations arising and/or relating to the Agreement - and shall act as an agent of Mallinckrodt Baker under the obligation, insofar as necessary, to transfer all its rights to Mallinckrodt Baker, with respect to the (new formed) products, without prejudice to all (other) rights of Mallinckrodt Baker.

- 7.4 As long as Customer has not fulfilled all obligations arising and/or relating to the Agreement and until the ownership of the Products shall be transferred to Customer and/ or Mallinckrodt Baker has reasonable grounds to fear that the Customer will come in default, Mallinckrodt Baker has the right to immediately claim, respectively reclaim the (title to) the Products delivered at any moment. Customer hereby grants Mallinckrodt Baker its irrevocable and unconditional consent to enter its premises for this purpose. On first demand, Customer shall be obliged to return the Products immediately to Mallinckrodt Baker, carriage paid, without any court intervention, summons or notice of default being required. In that event the Agreement shall not be automatically dissolved as a consequence thereof, such without prejudice to the other rights of Mallinckrodt Baker with this respect. If Mallinckrodt Baker dissolves the Agreement after having taken back the Products, the amounts paid by Customer for the execution of his obligations shall be paid back to Customer, taking into account all claims of Mallinckrodt Baker against Customer.
- 7.5 As long as Customer is detentor and not the owner of the Products and has not the title to the Products, Customer is obliged to insure the Products properly, in any case against risks of theft, damage and loss.

## Article 8

### Prices

- 8.1 All quotations and prices, whether stated in an Offer, Order Acknowledgement, invoice or otherwise, shall be 'ex works' as defined in the Inco Terms referred to in Article 5 of these general conditions, unless agreed upon otherwise between Mallinckrodt Baker and Customer.
- 8.2 All prices are inclusive of interior packaging and cartons, but exclusive of special exterior packaging and exclusive of VAT, alcohol excise, unless agreed otherwise in writing. Special exterior packaging shall be charged at cost price and shall not be taken back, unless agreed otherwise in writing.
- 8.3 Mallinckrodt Baker shall be authorized to increase the agreed prices, after an Order Acknowledgement and/or the conclusion of an Agreement, as a result of cost increases, irrespective of their nature and reason (for example as a result of changes of the prices of auxiliary materials, raw materials, freight, import duties, levies, taxes and other charges such as wages, salaries and social premiums).
- 8.4 Excise duty. In case of delivery of products containing alcohol, the dedicated administrative documents have to be returned on due time to Mallinckrodt Baker, otherwise excise duty will be charged to the Customer.

## Article 9

### Payment

- 9.1 Payment has to be made effectively in the currency provided in the Agreement, respectively in the currency mentioned on the invoices.
- 9.2 In case of partial deliveries, Mallinckrodt Baker is entitled to invoice each part separately, unless otherwise agreed in writing. Mallinckrodt Baker is also entitled to send advance invoices.
- 9.3 All payments have to be made within thirty (30) days after the date of the invoice, unless another term of payment has been agreed upon in writing. Deduction, setoff, discounts or suspension of the payment obligation for whatever reason is not allowed, unless agreed otherwise.
- 9.4 Payments shall be made by Customer by means of money transfer to a bank account designated by Mallinckrodt Baker.

- 9.5 Claims about invoices shall have to be submitted to Mallinckrodt Baker in writing within fourteen (14) days after the date of the respective invoice. If no claim has been submitted within the aforementioned term, the invoice shall be deemed as accepted and approved by Customer.
- 9.6 If Customer fails to pay within thirty (30) days after the date of invoice or another term of payment agreed in writing, the consequence thereof will be that:
- (i) Customer is in default ipso jure, without any notice of default being required and Mallinckrodt Baker will be entitled to dissolve the Agreement wholly or partially, without court intervention being required or to suspend the execution of the Agreement wholly or partially, without any obligation to compensate damages;
  - (ii) All other claims of Mallinckrodt Baker against Customer shall become immediately due and payable;
  - (iii) Customer is due an interest rate of 2.5% points on top of the Dutch statutory interest ('wettelijke rente') on the outstanding amount, calculated as from the due date of the invoice until the day of full payment, without any notice of default being required and without prejudice to any other rights of Mallinckrodt Baker;
  - (iv) Customer is bound to compensate for all damages sustained and to be sustained by Mallinckrodt Baker as a consequence of his overdue payment, including expenses and extra judicial collection costs, inter alia consisting of costs of third parties contracted by Mallinckrodt Baker in order to determine and collect the debt. In case of overdue payment, the amount of the extra judicial costs shall be determined ('begroot') in accordance with the collection fee of the Dutch Bar ('incassatarief van de Nederlandse Orde van Advocaten').
- 9.7 Payments made by Customer always serve to settle all costs due primarily, then (accrued) interest and subsequently collectible invoices outstanding for the longest period, irrespective of whether Customer mentions that the settlement concerns a later invoice.
- 9.8 Mallinckrodt Baker reserves the right to require an adequate security or guarantee (such as letters of credit, bank guarantees etc.) for the fulfilment of Customer's obligations arising from the Agreement, especially in case Customer fails to pay an invoice timely. If Customer refuses to issue the requested security or guarantee, Mallinckrodt Baker shall be entitled to suspend further deliveries and/or to dissolve the Agreement wholly or partially. In that case Customer shall be obliged to compensate for the damage sustained by Mallinckrodt Baker including loss of profits.

## **Article 10**

### **Failure to Fulfil Obligations**

In case of non fulfilment or untimely fulfilment of any obligation arising from and/or relating to the Agreement by Customer, as well as in case Customer applies for moratorium or voluntary winding-up, obtains moratorium or a winding-up order, liquidation of Customer or similar circumstances, including attachment at his expense, all claims of Mallinckrodt Baker against Customer arising from the Agreement shall immediately be entirely due and payable and Customer shall be deemed to be in default by law with immediate effect. Moreover, Mallinckrodt Baker shall be entitled to dissolve the Agreement without court intervention and without any obligation to compensate damages and to take back the delivered unpaid Products in conformity with the provisions set out in Article 7 Paragraph 4, without prejudice to other rights of Mallinckrodt Baker (for example to claim damages, including loss of profits).

## **Article 11**

### **Force majeure**

- 11.1 If as a consequence of force majeure Mallinckrodt Baker is not able to deliver or to deliver timely, the obligation of delivery shall be suspended for a period equal to the duration of force majeure.
- 11.2 With respect to price increases during the period of force majeure, Mallinckrodt Baker shall be authorized to adapt the agreed price - as referred to in article 8 - and to invoice the adapted price to Customer.
- 11.3 If, as a consequence of a force majeure, the proper performance of the Agreement is permanently impossible or if the proper performance of the Agreement is impossible for a period totalling more than one month, Mallinckrodt Baker and Customer shall be entitled to dissolve the Agreement wholly or partially without court intervention. In the event of a force majeure Customer is not entitled to any compensation.
- 11.4 Force majeure shall include any measure of any authority of whatever nature as a consequence of which delivery is (temporarily) limited or prevented, for example in the event importation and exportation are prohibited or prevented, physical or economic stagnations in transport, war, state of war or emergency, mobilization, danger of war, civil war, regardless of the fact whether The Netherlands are involved therein, riots, strike or lock-out, work-to-rule, picketing or entrance blockades and/or industrial interruptions, fire, flooding, frost, explosion, illness of personnel, both in the enterprise of Mallinckrodt Baker and in enterprises supplying raw materials or auxiliary materials, and in general all events and circumstances beyond the control of Mallinckrodt Baker and in general circumstances which interrupt the regular course of business of Mallinckrodt Baker, which are of such nature that these circumstances cannot reasonably be attributed to Mallinckrodt Baker and/or which were not reasonably foreseeable for Mallinckrodt Baker at the time the Agreement was concluded, and/or circumstances that are as such that Mallinckrodt Baker cannot reasonably be required to fulfill the obligations arising from the Agreement.

## **Article 12**

### **Liability and Indemnifications**

- 12.1 Customer is acquainted with the production process of the Products and knows that the Products are produced and intended for in vitro laboratory use only, unless the label explicitly indicates otherwise. In the event the label does not explicitly indicate that the Products could be used for other purposes than for in vitro laboratory use, Customer declares and undertakes vis à vis Mallinckrodt Baker that, in case Customer does not use the Products for in vitro laboratory purposes, such use is at his own risk and in full compliance and in accordance with all applicable public and/or private regulations. Customer assumes full liability for such use of the Products and Customer indemnifies and holds Mallinckrodt Baker harmless against any and all liability resulting from such use of the Products.
- 12.2 Notices given by Mallinckrodt Baker or in the name of Mallinckrodt Baker relating to inter alia the quality, composition, treatment in the broadest sense, possibilities of application and properties of the Products do not bind Mallinckrodt Baker, unless expressly made in writing in the form of a warranty ('garantie').
- 12.3 Customer shall check accurately the quantity and the quality of the delivered Products immediately upon delivery as referred to in Article 5 of these general conditions. Claims with respect to the quantity and the quality of the Products delivered have to be filed within fourteen (14) days after delivery, in writing, provided that defects with respect to not observable defects in the quality of the Products that could not be observed reasonably by Customer within the aforementioned term, have to be filed in writing immediately after Customer observed or could have observed this defect. If no claim is filed in writing within the aforementioned term, Mallinckrodt Baker shall be deemed to have duly and correctly fulfilled its obligations resulting or arising from the Agreement with regard to inter alia the quantity and quality.

- 12.4 Claims do not give Customer the right to suspend his payments or to appeal to setoff or discount.
- 12.5 Any partial delivery shall be considered to be a separate delivery.
- 12.6 Unless expressly provided otherwise Products shall exclusively be delivered for in vitro laboratory purposes only. Mallinckrodt Baker shall aim at taking care of appropriate labelling, but Mallinckrodt Baker does not accept any responsibility and/or liability therefore. Customer is liable for taking all measures to avoid damage to persons and/or goods. Customer shall be obliged to store the Products and to use them in their original packaging and Customer is not allowed to change the labelling or to remove instructions for a correct use of the Products from the Products and/or the packaging.
- 12.7 Customer shall not resell the Products. Customer declares and undertakes vis à vis Mallinckrodt Baker that, in case Customer resells the Products, this resale is at his own risk. Customer assumes full liability for any resale of the Products and Customer indemnifies and holds Mallinckrodt Baker harmless against any and all liability resulting from such resale of the Products.
- 12.8 Mallinckrodt Baker shall not be liable for consequential damage or loss of profits sustained by Customer, his subordinate or persons employed by him or the Customer's clients - of whatever name - or for damage to third parties, caused by whole or partial delivery of the Products, delayed or unsound delivery or failure of delivery of the Products. The aforementioned provision does not affect the possible liability of Mallinckrodt Baker pursuant to the mandatory legal provisions with regard to product liability.
- 12.9 The total liability of Mallinckrodt Baker shall never exceed the nett sales price or the nett invoice amount of the Products in question which the Customer is due in consideration of the Agreement, with deduction of possible amounts credited by Mallinckrodt Baker. In the event that Mallinckrodt Baker's liability should exceed the limitation set forth in the previous sentence, Mallinckrodt Baker shall in any case never be liable for more than the amount of the liability insurance payment under the insurance coverage of Mallinckrodt Baker.
- 12.10 Except for cases of gross negligence or intention of Mallinckrodt Baker, Mallinckrodt Baker shall not be liable for material and/or emotional damage - including economic damage - caused directly or indirectly by the release of any liquid or solid substance or any gas and/or noise pollution and/or vibrations, in general any nuisance to the whole of living and non living elements of the environment, including all moveable and immovable goods, separately and in conjunction with each other, being: water, air, soil, persons, animals, plants and goods and the relations between them: ecosystem, nature and landscape and/or any other damage to the environment, by or on account of the delivered Products. Except for cases of gross negligence or intention of Mallinckrodt Baker, Customer will have to hold Mallinckrodt Baker harmless against claims of third parties with respect to the above-mentioned environmental damage regardless of the form of those claims, and will have to be duly insured against such claims.
- 12.11 Customer shall be obliged to hold Mallinckrodt Baker harmless against any and all claims of third parties, regardless of their form and for whatever reason they are filed, which claims are related to the delivered Products which are marketed by Mallinckrodt Baker or on behalf of Mallinckrodt Baker. Customer is bound to be duly insured against such claims.

## Article 13

### Intellectual Property

- 13.1 Goods marketed by Mallinckrodt Baker cannot be offered or traded without Mallinckrodt Baker's prior written permission and on conditions to be imposed by Mallinckrodt Baker under the trademarks to which are entitled or mentioning the trade name of Mallinckrodt Baker.
- 13.2 The Products marketed by Mallinckrodt Baker in retail packaging may only be sold in that original retail packaging without any change or damage of the packaging or its contents. The Products may never be

offered or delivered as bonus or jointly with other products not marketed by Mallinckrodt Baker at one price without the prior written authorization of Mallinckrodt Baker.

- 13.3 All intellectual property rights with respect to the Products, such as patents, royalties, trademarks, models and furthermore all industrial rights and licenses related to the preceding intellectual property rights shall remain property of Mallinckrodt Baker and/or the licensor. In case of a possible infringement of any of the intellectual property rights of Mallinckrodt Baker by third parties, Customer is obliged to inform Mallinckrodt Baker thereof immediately.
- 13.4 Customer shall be bound to impose the preceding obligations set out in this article to his own clients and Customer shall indemnify Purchaser against possible infringements by its clients of the intellectual property rights of Mallinckrodt Baker with respect to the Products.
- 13.5 For each violation or inaccurate fulfilment of any of the provisions of this article, Customer shall forfeit to Mallinckrodt Baker, without any demand, prior notice or judicial intervention being required, an immediately payable amount of EUR 15,000.- (in words: fifteen thousand euros) for such breach to be increased by a penalty of EUR 1,000 (in words: thousand euros) for each day or part of a day that any such breach shall continue, without Mallinckrodt Baker being required to prove any damage or loss and without prejudice to Mallinckrodt Baker's right to recover any damages or losses in excess of the penalties.

## Article 14

### Transfer of Rights and Obligations and Transition of Control

- 14.1 Without the prior written permission of Mallinckrodt Baker, Customer shall not be entitled to transfer all or part of his rights and obligations under the Agreement to a third party or to have an Agreement executed wholly or partially by a third party.
- 14.2 If after conclusion of an Agreement the control of all or a substantial part of Customer's enterprise is directly or indirectly transferred to others, Mallinckrodt Baker shall be entitled, within thirty (30) days after being informed by Customer of such transfer, to terminate the Agreement unilaterally by registered letter, subject to a notice period of fourteen (14) days, without court intervention, without Mallinckrodt Baker being obliged to pay compensation for any damages and/or losses sustained by Customer.

## Article 15

### Applicable Law and Jurisdiction

- 15.1 These general conditions and all Offers, Orders, Order Acknowledgements and Agreements to which these general conditions are applicable or obligations ensuing there from, shall be governed by and construed in accordance with Dutch law.
- 15.2 Parties explicitly agree that the United Nations Convention on Contracts for the International Sale of Goods ('Verdrag der Verenigde Naties inzake internationale koopovereenkomsten betreffende roerende zaken') is not applicable to these general conditions.
- 15.3 All disputes relating to or ensuing from Offers, Orders, Order Acknowledgements and/or Agreements to which these general conditions are applicable, shall exclusively be settled by the competent court in The Netherlands.

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0007	1344-28-1	215-691-6	55	0164	13446-18-9	233-826-7	245	0287	141-53-7	205-488-0	365
0008	1344-28-1	215-691-6	55	0168			482	0288	1310-73-2	215-185-5	369
0010	7784-31-8	233-135-0	56	0168	10034-99-8	231-298-2	246	0293	7681-82-5	231-679-3	377
0011	631-61-8	211-162-9	57	0169	10034-99-8	231-298-2	246	0294	7681-82-5	231-679-3	377
0013	1066-33-7	213-911-5	62	0170	1313-13-9	215-202-6	248	0295	10102-40-6	231-551-7	378
0014	1341-49-7	215-676-4	62	0172	598-62-9	209-942-9	248	0296	7631-99-4	231-554-3	378
0015	10361-29-2	233-786-0	58	0173	13446-34-9	231-869-6	248	0297	7632-00-0	231-555-9	379
0017	10361-29-2	233-786-0	58	0174	10034-96-5	232-089-9	249	0298	7632-00-0	231-555-9	379
0018	12125-02-9	235-186-4	59	0176	7782-91-4	231-970-5	271	0301	62-76-0	200-550-3	379
0019	12125-02-9	235-186-4	59	0177	79-11-8	201-178-4	123	0302	6834-92-0	229-912-9	378
0020	3012-65-5	221-146-3	62	0179	373-02-4	206-761-7	275	0303	10049-21-5	231-449-2	363
0021	7789-09-5	232-143-1	59	0181	3333-67-3	222-068-2	275	0304	10039-32-4	231-448-7	367
0023	12125-01-8	235-185-9	61	0182	7791-20-0	231-743-0	275	0305	7782-85-6	231-448-7	367
0024	12054-85-2	234-722-4	61	0183	7791-20-0	231-743-0	276	0306	7558-79-4	231-448-7	366
0025	6484-52-2	229-347-8	69	0184	13478-00-7	236-068-5	276	0307	10101-89-0	231-509-8	381
0028	7727-54-0	231-786-5	69	0185	10101-97-0	232-104-9	277	0308	10101-89-0	231-509-8	381
0029	7722-76-1	231-764-5	61	0187	6153-56-6	205-634-3	285	0309	13472-36-1	231-767-1	362
0031	7783-28-0	231-987-8	62	0188	108-95-2	203-632-7	299	0311	7727-73-3	231-820-9	383
0032	7783-20-2	231-984-1	70	0190	37267-86-0	253-433-4	301	0312	7757-82-6	231-820-9	383
0034	1762-95-4	217-175-6	71	0192	1314-56-3	215-236-1	304	0313	7757-82-6	231-820-9	383
0035	10034-81-8	233-108-3	72	0194	85-44-9	201-607-5	304	0316	7757-83-7	231-821-4	384
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0052	10022-31-8	233-020-5	87	0198	7646-93-7	231-594-1	320	0319	10102-17-7	231-867-5	385
0053	7727-43-7	231-784-4	87	0199	16731-55-8	240-795-3	316	0320	7772-98-7	231-867-5	385
0055	10043-35-3	233-139-2	92	0202	7758-02-3	231-830-3	309	0321	10213-10-2	236-743-4	386
0059	62-54-4	200-540-9	111	0204	584-08-7	209-529-3	310	0322	10026-06-9	231-588-9	416
0061	471-34-1	207-439-9	113	0205	584-08-7	209-529-3	310	0323	10025-69-1	231-868-0	415
0064	10035-04-8	233-140-8	114	0207	3811-04-9	223-289-7	310	0324-01	1343-98-2	215-683-2	347
0070	10043-52-4	233-140-8	113	0208	7447-40-7	231-211-8	311	0325	10025-69-1	231-868-0	415
0073	1305-62-0	215-137-3	115	0209	7447-40-7	231-211-8	311	0326	10028-24-7	231-448-7	367
0074	1305-62-0	215-137-3	115	0210	7789-00-6	232-140-5	312	0327	9005-25-8	232-679-6	389
0076	13477-34-4	233-332-1	116	0211	7789-00-6	232-140-5	312	0329	57-11-4	200-313-4	390
0078	1305-78-8	215-138-9	116	0213	151-50-8	205-792-3	312	0331	10025-70-4	233-971-6	391
0081	10101-41-4	231-900-3	117	0214	7778-50-9	231-906-6	313	0333	110-15-6	203-740-4	391
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0086	1333-82-0	215-607-8	128	0216	7778-50-9	231-906-6	313	0335	7704-34-9	231-722-6	394
0088	5949-29-1	201-069-1	129	0218	7758-02-3	231-830-3	309	0339	14807-96-6	238-877-9	404
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0091	10026-22-9	233-402-1	133	0220	14459-95-1	237-722-2	317	0342	62-56-6	200-543-5	413
0093	10026-24-1	233-334-2	133	0222	1310-58-3	215-181-3	320	0344	76-03-9	200-927-2	421
0095	6046-93-1	205-553-3	135	0224	1310-58-3	215-181-3	321	0345	57-13-6	200-315-5	431
0097	10125-13-0	231-210-2	136	0225	7789-23-3	232-151-5	316	0346	57-13-6	200-315-5	431
0099	3251-23-8	221-838-5	137	0226	7758-05-6	231-831-9	325	0351	7440-66-6	231-175-3	439
0101	1317-38-0	215-269-1	138	0227	7681-11-0	231-659-4	325	0352	7440-66-6	231-175-3	439
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0104	7758-99-8	231-847-6	138	0230	7681-11-0	231-659-4	326	0356	7440-66-6	231-175-3	439
0105	7758-99-8	231-847-6	139	0231	7757-79-1	231-818-8	326	0357	5970-45-6	209-170-2	440
0107	7758-98-7	231-847-6	138	0232	7757-79-1	231-818-8	327	0359	7646-85-7	231-592-0	441
0108	7758-89-6	231-842-9	136	0233	7758-09-0	231-832-4	327	0360	7646-85-7	231-592-0	442
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0116			234	0240	7778-77-0	231-913-4	316	0365	7446-20-0	231-793-3	443
0118	7783-83-7	233-382-4	68	0241	7758-11-4	231-834-5	318	0366	7487-88-9	231-298-2	246
0119	10025-77-1	231-729-4	229	0242	7758-11-4	231-834-5	318	0367	1330-43-4	215-540-4	161
0121	7782-61-8	233-899-5	230	0243	7778-53-2	231-907-1	330	0373	7758-02-3	231-830-3	309
0122	1309-37-1	215-168-2	230	0245	7790-62-7	232-216-8	331	0377	7727-21-1	231-781-8	329
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0141	6080-56-4	206-104-4	238	0264	10034-88-5	240-778-0	367	0394	144-55-8	205-633-8	365
0142	1335-32-6	215-630-3	237	0266	7631-90-5	231-548-0	367	0402	1310-73-2	215-185-5	368
0145	7758-95-4	231-845-5	238	0267	7681-57-4	231-673-0	363	0403	1310-73-2	215-185-5	368
0148	10099-74-8	233-245-9	238	0268	1303-96-4	215-540-4	161	0404	1310-73-2	215-185-5	369
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1183	10294-26-5	233-653-7	350	1779	10102-17-7	231-867-5	385	2890-03	18497-13-7	241-010-7	127
1190	13755-38-9	238-373-9	380	1780	144-55-8	205-633-8	366	2940	298-14-6	206-059-0	317
1192	7790-28-5	232-197-6	385	1783	8006-28-8		352	3058			224
1194	143-66-8	205-605-5	384	1795	10196-18-6	231-943-8	442	3227	7722-64-7	231-760-3	328
1195	10213-10-2	236-743-4	386	1796	7446-20-0	231-793-3	444	3321	124-68-5	204-709-8	56
1197	121-57-3	204-482-5	394	1827		215-683-2	346	3351	4264-83-9	224-246-5	282

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3369			177	4145	75621-03-3		122	4657	7647-01-0	231-595-7	213
3371	100-97-0	202-905-8	194	4147	3076-05-9	221-352-3	122	4660	7553-56-2	231-441-9	227
3375	7757-82-6	231-820-9	382	4149			75	4662	7553-56-2	231-441-9	227
3376	68855-54-9	272-489-0	120	4153	75277-39-3		191	4665		205-634-3	285
3377-00			482	4163	7119-22-7		272	4667	7758-01-2	231-829-8	309
3377-00	7757-82-6	231-820-9	382	4168	50-01-1	200-002-3	189	4671	7778-50-9	231-906-6	314
3400	67-56-1	200-659-6	260	4217	7732-18-5	231-791-2	435	4673	1310-58-3	215-181-3	323
3401	67-63-0	200-661-7	337	4218	7732-18-5	231-791-2	435	4674	1310-58-3	215-181-3	323
3402	100-51-6	202-859-9	89	4219	7732-18-5	231-791-2	433	4676	7758-05-6	231-831-9	325
3403	67-64-1	200-662-2	46	4265	5625-37-6		304	4677	7722-64-7	231-760-3	329
3405	64-17-5	200-578-6	170	4266	100037-69-2		305	4681	7761-88-8	231-853-9	350
3406	64-17-5	200-578-6	168	4312	3486-35-9		441	4682	7761-88-8	231-853-9	350
3407	64-17-5	200-578-6	170	4390			83	4684	7647-14-5	231-598-3	361
3408	64-17-5	200-578-6	170	4391			84	4687	1310-73-2	215-185-5	376
3410	1330-20-7	215-535-7	437	4392			84	4689	1310-73-2	215-185-5	375
3411	108-88-3	203-625-9	420	4393			84	4690	1310-73-2	215-185-5	375
3451			288	4394			84	4691	1310-73-2	215-185-5	375
3716			387	4395			84	4693	10102-17-7	231-867-5	386
3719			190	4396			85	4695	10102-17-7	231-867-5	386
3813	12627-53-1	235-732-1	239	4397			85	4699	7664-93-9	231-639-5	403
3814			249	4398			85	4700	7664-93-9	231-639-5	403
3815	51811-82-6	257-438-2	185	4399			82	4701	7664-93-9	231-639-5	403
3816	68988-92-1		436	4400			82	4704	7664-93-9	231-639-5	403
3855			250	4401			82	4706	64-19-7	200-580-7	44
3856			184	4402			82	4708			95
3858	50-00-0	200-001-8	178	4403			82	4712	7697-37-2	231-714-2	282
3859	50-00-0	200-001-8	177	4404			83	4715	1310-73-2	215-185-5	376
3864			287	4405			83	4795			97
3865			287	4406			83	4796			98
3866			287	4407			83	4797			99
3869			121	4408			78	4806	7601-90-3	231-512-4	291
3870			190	4409			79	4807	1336-21-6	215-647-6	67
3871			165	4410			79	4850			96
3872			344	4411			79	4851			96
3873			190	4412			79	4852			97
3874			165	4413			79	4853			97
3876			346	4414			80	4854			97
3878			436	4415			80	4855	108-10-1	203-550-1	266
3879			239	4416			80	4856			98
3880			94	4417			80	4857			99
3904	540-84-1		272	4418			81	4858			99
3905	90622-57-4	292-459-0	429	4419			81	4860			97
3921			429	4420			81	4861			98
3925	8002-74-2		430	4421			80	4862			99
3930			144	4425	1936-15-8	217-705-6	284	4863			98
3933	50-00-0	200-001-8	179	4435			387	4864			376
3934		231-673-0	178	4437			389	4865			375
4001	7447-40-7	231-211-8	311	4439			388	4866			323
4002	7447-41-8	231-212-3	241	4441			388	4867		231-595-7	214
4003	7791-18-6	232-094-6	244	4442			387	4868			282
4004	1132-61-2	214-478-5	272	4444			389	4869			404
4007	1239-45-8	214-984-6	171	4450			387	4870		205-358-3	165
4008	7778-77-0	231-913-4	315	4455			388	4871			164
4009	6131-90-4	204-823-8	353	4456			388	4873			329
4011	10049-21-5	231-449-2	362	4458			389	4874	7446-20-0		444
4012	7758-11-4	231-834-5	318	4460			388	4876		231-659-4	225
4014	4432-31-9	224-632-3	271	4505			468	4878			98
4018	7365-45-9	230-907-9	190	4509			387	4889	877-24-7	212-889-4	319
4027	7783-20-2	231-984-1	70	4510			388	4890	57-50-1	200-334-9	392
4028	75-12-7	200-842-0	180	4511			389	4893	50-99-7	200-075-1	145
4031	110-26-9	203-750-9	264	4512			388	4921	7778-77-0	231-913-4	315
4035	10043-35-3	233-139-2	92	4514			468	4922	471-34-1	207-439-9	112
4040	6381-92-6	205-358-3	163	4515			468	4923	497-19-8	207-838-8	357
4042	7647-17-8	231-600-2	121	4520			468	4924	7647-14-5	231-598-3	359
4043	56-81-5	200-289-5	186	4528			469	4931	7722-76-1	231-764-5	60
4045	50-01-1	200-002-3	189	4529			345	4962	13463-67-7	236-675-5	417
4049	60-24-2	200-464-6	250	4531			345	4991	1312-81-8	215-200-5	236
4056	108-95-2	203-632-7	299	4532			345	5003			346
4058	7647-14-5	231-598-3	360	4533			162	5004			347
4059	56-40-6	200-272-2	186	4535			345	5006			55
4062	7558-79-4	231-448-7	366	4555-02			388	5007			120
4075	50-01-1	200-002-3	189	4581			468	5012			120
4081	79-06-1	201-173-7	51	4586			468	5014			306
4095	151-21-3	205-788-1	364	4601			227	5015			306
4097	57-50-1	200-334-9	392	4631			227	5016			120
4098	110-18-9	203-744-6	412	4650	1762-95-4	217-175-6	71	5036			120
4103	1185-53-1	201-064-4	428	4652	139-33-3	205-358-3	165	5046			306
4109	77-86-1	201-064-4	427	4653	139-33-3	205-358-3	164	5056	1343-98-2	215-683-2	346
4111	57-13-6	200-315-5	431	4654	7647-01-0	231-595-7	214	5155	7722-84-1	231-765-0	219
4118	1135-40-6	214-492-1	118	4655	7647-01-0	231-595-7	214	5168	10043-35-3	233-139-2	92



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5651			104	5779			348	6813			237
5652			103	5780			352	6814			240
5653			102	5781			390	6815			243
5654			101	5782			405	6816			247
5655			103	5783			406	6817			251
5656			102	5784			412	6818			270
5657			100	5785			413	6819			274
5701			53	5786			414	6820			307
5703			74	5787			416	6821			348
5704			75	5788			430	6822			352
5705			85	5789			431	6823			390
5706			89	5790			438	6824			414
5707			90	5791			440	6825			416
5708			93	5792			444	6826			432
5709			108	5793			247	6827			440
5710			110	6003-01			269	6900	7647-01-0	231-595-7	208
5711			127	6004	108-24-7	203-564-8	44	6901	7697-37-2	231-714-2	278
5712			132	6004-01			269	6902	7664-93-9	231-639-5	395
5713			135	6005	1336-21-6	215-647-6	66	6903	64-19-7	200-580-7	42
5714			183	6005-01			270	6904	7664-39-3	231-634-8	215
5716			54	6008	64-18-6	200-579-1	182	6906	7732-18-5	231-791-2	434
5717			75	6010	10035-10-6	233-113-0	204	6908	7664-38-2	231-633-2	302
5718			76	6011	7647-01-0	231-595-7	206	6917			54
5719			86	6011-01			224	6919			76
5720			90	6012	7647-01-0	231-595-7	207	6920			86
5721			91	6012-01			224	6921			89
5722			93	6013	7664-39-3	231-634-8	217	6922			90
5723			108	6014-01			225	6923			93
5724			111	6016	6303-21-5	228-601-5	222	6924			108
5727			128	6017	79-33-4	201-196-2	234	6925			110
5728			132	6019	7697-37-2	231-714-2	280	6926			127
5729			135	6021-01			333	6927			132
5730			188	6022	7601-90-3	231-512-4	292	6928			135
5731			229	6023	7601-90-3	231-512-4	294	6929			228
5732			237	6024	7664-38-2	231-633-2	303	6930			237
5733			240	6027	7664-93-9	231-639-5	397	6931			240
5734			243	6031-01			420	6932			243
5735			248	6033-01			420	6933			247
5736			251	6034	79-09-4	201-176-3	338	6934			251
5737			271	6035	112-80-1	204-007-1	284	6935			270
5738			275	6037	64-18-6	200-579-1	181	6936			274
5739			286	6050	7782-99-2		404	6938			345
5740			305	6051	1336-21-6	215-647-6	66	6939			347
5741			307	6052	64-19-7	200-580-7	44	6940			348
5742			344	6057	7664-93-9	231-639-5	398	6941			352
5743			345	6060	79-33-4	201-196-2	235	6942			390
5744			347	6064	111-19-3	203-843-4	344	6943			414
5745			348	6069	598-82-3	201-196-2	234	6945			432
5746			352	6070	7647-01-0	231-595-7	209	6946			440
5747			390	6079	7664-39-3	231-634-8	218	6947			235
5748			405	6080	7697-37-2	231-714-2	281	6948			235
5749			406	6081	7647-01-0	231-595-7	205	6949			236
5750			413	6103-01			223	6950			307
5751			415	6106-01			119	6951			305
5752			416	6119-01			223	6952			188
5753			430	6122-01			435	6953			286
5754			432	6123	7699-45-8	231-718-4	441	6954			413
5755			439	6124			226	6964			416
5756			440	6125	1336-21-6	215-647-6	63	6968	28300-74-5		74
5757			445	6131	75-59-2	200-882-9	411	7000-03			490
5758			184	6147	7664-93-9	231-639-5	398	7000-04			490
5759			184	6152	64-19-7	200-580-7	43	7001-00			490
5760			277	6162	1336-21-6	215-647-6	63	7001-03			490
5761			412	6163	7664-93-9	231-639-5	396	7001-04			490
5762			184	6164	1310-73-2	215-185-5	371	7002-05			490
5763			188	6165	1310-73-2	215-185-5	370	7003	12135-76-1	235-223-4	71
5764			228	6166	64-18-6	200-579-1	181	7003-04			490
5765			237	6167	7647-01-0	231-595-7	211	7004	62-53-3	200-539-3	73
5766			239	6801			54	7004-04			490
5767			243	6802			74	7005	62-53-3	200-539-3	73
5768			251	6803			76	7005-04			490
5769			270	6804			86	7007-04			490
5770			274	6805			90	7009-04			490
5771			277	6806			91	7010	100-51-6	202-859-9	89
5772			286	6807			108	7010-04			490
5773			305	6808			110	7011-03			490
5774			307	6809			128	7012-04			490
5776			343	6810			132	7013-04			490
5777			345	6811			135	7016	56-23-5	200-262-8	408
5778			347	6812			228	7018	67-66-3	200-663-8	125

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7018-00			468	7061-00			482	7103	7664-93-9	231-639-5	402
7018-94			468	7061-00	1343-88-0	215-681-1	177	7103-00			489
7019	67-66-3	200-663-8	126	7063	1310-58-3	215-181-3	321	7104-00			484
7020-00			464	7064	57-55-6	200-338-0	338	7104-01			484
7020-01			464	7066	90-02-8	201-961-0	343	7104-39			484
7020-02			464	7067	1310-73-2	215-185-5	370	7105	1310-73-2	215-185-5	373
7020-03			464	7068-01			482	7105-01			484
7020-06			464	7069	79-27-6	201-191-5	406	7106	56-23-5	200-262-8	408
7020-07			464	7069-01			481	7108	920-66-1	213-059-4	194
7020-08			464	7070-01			481	7109	1310-73-2	215-185-5	370
7020-11			464	7074	126-73-8	204-800-2	421	7109-00			480
7020-13			464	7075	79-01-6	201-167-4	422	7110	7664-93-9	231-639-5	402
7020-21			464	7076-01			482	7111	7647-01-0	231-595-7	212
7020-22			464	7079	76-05-1	200-929-3	424	7111-00			480
7020-23			464	7080	91-17-8	202-046-9	144	7112	1310-73-2	215-185-5	373
7020-26			464	7081	108-75-8	203-613-3	426	7113			323
7020-27			464	7084-05			488	7113-00			489
7020-33			464	7085	95-48-7	202-423-8	139	7114	10294-42-5	237-029-5	121
7020-40			464	7086-00			462	7114-00			483
7020-41			464	7086-01			462	7114-06			483
7020-42			464	7086-02			462	7116	10043-52-4	233-140-8	114
7021-00			464	7086-03			462	7116-00			483
7021-01			464	7086-06			462	7116-06			483
7021-02			464	7086-07			462	7116-39			483
7021-03			464	7086-08			462	7117		200-540-9	111
7021-07			464	7086-22			462	7118-01			488
7022-01			488	7086-23			462	7118-04			488
7022-02			488	7086-26			462	7118-06			488
7022-04			488	7086-28			462	7119	7697-37-2	231-714-2	281
7022-06			488	7086-40			462	7119-01			469
7024	84-74-2	201-557-4	147	7086-41			462	7120-03			469
7024-00			481	7086-42			462	7121			324
7024-01			481	7087-00			465	7121-01			469
7024-02			481	7087-01			465	7121-03			469
7024-05			481	7087-02			465	7121-04			469
7024-09			481	7087-03			465	7121-05			469
7025	95-50-1	202-425-9	147	7087-06			465	7121-06			469
7025-00			482	7087-26			462	7121-08			469
7025-01			482	7088	7647-01-0	231-595-7	212	7122	1762-95-4	217-175-6	71
7026	111-42-2	203-868-0	151	7088-00			463	7122-00			469
7026-00			482	7088-01			463	7123			95
7027-00			481	7088-02			463	7124		205-358-3	163
7028	105-53-3	203-305-9	155	7088-03			463	7125	139-33-3	205-358-3	164
7028-00			481	7088-09			463	7126			164
7028-01			481	7088-13			463	7127			164
7030	127-19-5	204-826-4	156	7089-03			462	7128		231-441-9	226
7032	68-12-2	200-679-5	157	7090-00			463	7128-02			483
7033	67-68-5	200-664-3	158	7090-01			463	7128-04			483
7036	1310-73-2	215-185-5	372	7090-03			463	7128-08			483
7037	107-21-1	203-473-3	175	7090-07			463	7129	1310-58-3	215-181-3	322
7037-00			481	7090-29			463	7129-01			486
7038	7647-01-0	231-595-7	213	7091-00			462	7130	1310-58-3	215-181-3	322
7040	50-00-0	200-001-8	178	7091-01			462	7131			324
7040-00			482	7091-03			462	7132			324
7041	50-00-0	200-001-8	178	7092		231-791-2	163	7132-01			486
7042	75-12-7	200-842-0	180	7092-00			488	7133		231-829-8	308
7042-00			481	7092-04			488	7133-01			486
7043-00			481	7092-06			488	7133-06			486
7044	56-81-5	200-289-5	186	7093	67-68-5	200-664-3	158	7134	7778-50-9	231-906-6	314
7044-00			481	7094-00			464	7134-01			486
7045			325	7094-01			464	7135	7783-35-9	231-992-5	254
7045-00			481	7094-03			464	7136			267
7046-00			481	7094-06			464	7136-01			485
7047	7722-84-1	231-765-0	220	7095	7761-88-8	231-853-9	349	7137			269
7047-00			481	7095-00			465	7137-01			486
7047-01			481	7095-01			465	7138		207-838-8	356
7048	7722-84-1	231-765-0	218	7095-03			465	7139		207-838-8	357
7048-01			481	7095-06			465	7140		231-598-3	361
7049-01			482	7095-09			465	7141		205-634-3	285
7050-01			482	7096	7761-88-8	231-853-9	349	7142			294
7051-01			481	7096-00			463	7143			300
7052-01			481	7097	1310-73-2	215-185-5	372	7144			100
7053	75-09-2	200-838-9	150	7097-01			480	7145			103
7055	141-43-5	205-483-3	171	7098	1310-73-2	215-185-5	374	7147			351
7055-01			481	7098-00			480	7148			351
7057	7722-64-7	231-760-3	329	7098-01			480	7149			351
7057-01			481	7099	1310-73-2	215-185-5	374	7152	67-66-3	200-663-8	126
7058-01			482	7100	10102-17-7	231-867-5	386	7153	75-09-2	200-838-9	151
7059	123-96-6	204-667-0	284	7101	1010-21-7	231-867-5	386	7154-01			485
7060	111-87-5	203-917-6	284	7102	7664-93-9	231-639-5	402	7155-03			463

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PROD. NO.	CAS NO.	EINECS	PAGE	PROD. NO.	CAS NO.	EINECS	PAGE	PROD. NO.	CAS NO.	EINECS	PAGE
7157-00			485	7216	1310-73-2	215-185-5	374	7279-00			483
7157-02			485	7216-06			463	7280-00			483
7157-05			485	7217-06			463	7280-43			483
7158	56-81-5	200-289-5	186	7218	7733-02-0	231-793-3	444	7283-00			486
7158-05			483	7218-02			463	7283-02			486
7158-06			483	7219	7647-01-0	231-595-7	212	7283-05			486
7159			100	7219-07			463	7285-00			485
7159-00			483	7221			294	7285-02			485
7159-05			483	7221-03			466	7285-05			485
7160	8012-95-1	232-384-2	287	7222-06			466	7291-01			485
7160-05			480	7225-04			466	7296-39			484
7161-05			480	7225-05			466	7297-00			484
7165	127-18-4	204-825-9	407	7225-06			466	7297-43			484
7165-00			489	7225-24			466	7297-47			484
7165-01			489	7227			148	7298-39			483
7165-02			489	7230	7647-01-0	231-595-7	212	7305	75-09-2	200-838-9	150
7165-03			489	7232	10043-52-4	233-140-8	114	7306	56-23-5	200-262-8	408
7165-04			489	7233			115	7309	71-55-6	200-756-3	422
7165-26			489	7238-06			463	7309-00			489
7165-30			489	7239-09			463	7314-01			487
7169	57-55-6	200-338-0	339	7241-00			468	7314-02			487
7176	25322-68-3	203-473-3	306	7242	7664-93-9	231-639-5	399	7315-01			487
7178	25322-68-3	203-473-3	306	7243-00			482	7315-02			487
7179	25322-69-4	200-338-0	307	7244			145	7323-00			468
7179-00			486	7245	7761-88-8	231-853-9	350	7327-00			468
7179-02			486	7246	7761-88-8	231-853-9	349	7328-01			467
7179-05			486	7247	7722-64-7	231-760-3	329	7328-03			467
7180-00			486	7248	10326-27-9		86	7328-06			467
7180-02			486	7248-00			486	7329-01			467
7180-05			486	7248-02			486	7329-03			467
7181-00			485	7248-05			486	7329-06			467
7181-02			485	7249			314	7333	14634-91-4	238-676-6	176
7181-05			485	7250			313	7334-01			464
7182-00			485	7251			139	7334-03			464
7182-02			485	7251-00			486	7334-04			464
7182-05			485	7251-02			486	7334-06			464
7183-02			486	7251-05			486	7334-07			464
7184-02			485	7252			253	7334-08			464
7189-01			465	7252-00			485	7337-01			462
7189-02			465	7252-02			485	7337-07			462
7189-03			465	7252-05			485	7337-08			462
7189-04			465	7253			354	7340			81
7189-06			465	7254	7446-20-0	231-793-3	444	7341			81
7191-00			486	7254-00			485	7348			342
7191-02			486	7254-02			485	7354	75-25-2	200-854-6	95
7191-05			486	7254-05			485	7356			74
7192-00			486	7255	121-54-0	204-479-9	201	7368	106-93-4	203-444-5	146
7192-02			486	7261			99	7374	9005-64-5		429
7192-05			486	7262			100	7385		200-001-8	179
7194	544-76-3	208-878-9	194	7263			101	7386	67-66-3	200-663-8	126
7199-00			481	7263-00			485	7390	50-00-0	200-001-8	179
7199-01			481	7263-02			485	7391	72-17-3	200-772-0	377
7201	1310-73-2	215-185-5	373	7263-05			485	7394	9005-65-6		429
7202	1310-73-2	215-185-5	371	7264			101	7397			119
7203	1310-58-3	215-181-3	322	7264-00			486	7400	68-12-2	200-679-5	157
7206			324	7264-01			486	7400-00			489
7207-00			486	7264-02			486	7400-01			489
7207-02			486	7264-05			486	7401-00			489
7207-05			486	7265			102	7401-01			489
7208-00			468	7267			104	7401-29			489
7210		231-441-9	226	7268			104	7401-30			489
7211	7647-01-0	231-595-7	213	7269			104	7402-00			489
7211-00			463	7269-00			485	7404-07			489
7211-01			463	7269-02			485	7404-08			489
7211-03			463	7269-05			485	7404-37			489
7212	7647-01-0	231-595-7	212	7270			105	7404-38			489
7212-00			464	7272			130	7413	865-49-6	212-742-4	127
7212-01			464	7272-00			483	7418-06			465
7212-03			464	7272-43			483	7418-07			465
7213-03			462	7273			103	7419-06			464
7213-07			462	7273-00			464	7419-07			464
7213-08			462	7273-01			464	7420	56-23-5	200-262-8	409
7213-23			462	7273-02			464	7420-06			462
7213-27			462	7273-03			464	7420-07			462
7214	1310-73-2	215-185-5	373	7274-00			483	7421-00			468
7214-03			462	7275-00			483	7423-00			468
7214-04			462	7276-00			483	7424	50-00-0	200-001-8	179
7214-07			462	7276-06			483	7424-00			468
7214-27			462	7277-00			483	7425-00			468
7215	7664-93-9	231-639-5	402	7278-00			483	7425-01			468

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7426-00			468	7519-02			465	8049	108-10-1	203-550-1	267
7427-00			468	7519-05			465	8050	108-87-2	203-624-3	264
7429-00			468	7519-22			465	8052	78-93-3	201-159-0	265
7430-00			468	7519-25			465	8053	78-93-3	201-159-0	265
7432-00			468	7523-00			465	8055-06			477
7433-00			468	7523-02			465	8055-07			477
7435-00			468	7523-05			465	8056	78-83-1	201-148-0	232
7436-00			468	7523-22			465	8056-06			477
7437-00			468	7524-04			466	8057-06			477
7439	108-32-7	203-572-1	338	7525	877-24-7	212-889-4	319	8058-06			477
7441-00			480	7526			304	8060-06			477
7441-01			480	7530-00			482	8061-06			477
7441-02			480	7534			342	8066	71-23-8	200-746-9	333
7441-03			480	7535			342	8067	67-63-0	200-661-7	336
7441-08			480	7541			97	8068	67-63-0	200-661-7	336
7442-05			480	7557	1310-73-2	215-185-5	372	8068-06			477
7445-01			480	7567-00			485	8068-07			477
7446-01			480	7567-02			485	8070-01			477
7448-01			480	7567-05			485	8072	108-20-3	203-560-6	155
7461			101	7568-01			485	8072-06			477
7462			102	7568-02			485	8072-07			477
7463			226	7575-06			462	8073	110-86-1	203-809-9	340
7464		231-992-5	254	7575-07			462	8074	110-86-1	203-809-9	341
7465-00			482	7577	7553-56-2	231-441-9	226	8075	109-99-9	203-726-8	411
7465-01			482	7598	1310-73-2	215-185-5	371	8077	108-88-3	203-625-9	419
7465-02			482	7606-01			473	8078	108-88-3	203-625-9	419
7466-00			465	7606-02			473	8079	121-44-8	204-469-4	424
7466-01			465	7606-03			473	8080	1330-20-7	215-535-7	436
7466-03			465	7606-04			473	8083	110-80-5	203-804-1	171
7466-04			465	7606-06			473	8084	109-86-4	203-713-7	262
7466-06			465	7606-07			473	8093-01			477
7466-07			465	7606-08			473	8094-06			477
7466-08			465	7606-09			473	8095-06			477
7466-10			465	7606-11			473	8096-02			478
7466-12			465	7606-31			475	8097-06			478
7466-22			465	7609-01			465	8098	64-17-5	200-578-6	167
7466-27			465	7609-02			465	8098-01			478
7471		231-639-5	399	7610	7664-93-9	231-639-5	399	8099-06			477
7472-02			485	7613	139-33-3	205-358-3	164	8100-06			477
7473-00			485	7620	1310-73-2	215-185-5	371	8101-01			478
7473-02			485	7621	1310-73-2	215-185-5	372	8102-01			478
7473-05			485	7622	7697-37-2	231-714-2	282	8102-04			478
7474-06			483	7624	7664-93-9	231-639-5	399	8103	78-92-2	201-158-5	107
7475	1310-73-2	215-185-5	374	7631			314	8104	110-82-7	203-806-2	141
7475-39			483	7638	7664-93-9	231-639-5	402	8108-00			472
7476	7779-88-6	231-943-8	442	7639	1310-58-3	215-181-3	322	8108-01			472
7477	7647-01-0	231-595-7	213	7641			351	8108-02			472
7478	7758-98-7	231-847-6	176	7642	7783-35-9		254	8108-03			472
7479	6381-59-5	205-698-2	176	7645	10326-27-9		86	8108-04			472
7480	1310-73-2	215-185-5	374	7650-07			466	8108-06			472
7481		231-791-2	164	7651	7647-01-0	231-595-7	213	8108-07			472
7486			310	7655	7647-01-0	231-595-7	211	8108-08			472
7488	7664-93-9	231-163-9	342	7704-06			466	8108-09			472
7490-07			466	8001	67-64-1	200-662-2	45	8108-11			472
7490-08			466	8002	67-64-1	200-662-2	46	8108-31			475
7491			301	8004	75-05-8	200-835-2	50	8109-00			471
7493	7647-01-0	231-595-7	213	8006	64-17-5	200-578-6	167	8109-01			471
7495-04			466	8007	64-17-5	200-578-6	169	8109-02			471
7495-18			466	8009	71-41-0	200-752-1	72	8109-03			471
7496-00			489	8010	123-51-3	204-633-5	231	8109-04			471
7496-01			489	8012	75-85-4	200-908-9	72	8109-06			471
7496-25			489	8013	100-66-3	202-876-1	73	8109-07			471
7496-28			489	8014	71-43-2	200-753-7	88	8109-08			471
7496-29			489	8017	71-36-3	200-751-6	106	8109-09			471
7496-30			489	8018	123-86-4	204-658-1	106	8109-11			471
7504-00			480	8019	75-65-0	200-889-7	107	8109-31			475
7505-00			480	8023	108-90-7	203-628-5	124	8110	142-82-5	205-563-8	192
7506-00			480	8026	110-82-7	203-806-2	140	8111	142-82-5	205-563-8	193
7511-04			466	8028	108-94-1	203-806-2	141	8111-00			472
7511-06			466	8030	109-89-7	203-716-3	152	8111-01			472
7512-00			468	8031	123-91-1	204-661-8	160	8111-02			472
7513-00			468	8033	60-29-7	200-467-2	152	8111-03			472
7514-00			468	8037	141-78-6	205-500-4	173	8111-04			472
7515-00			468	8038	141-78-6	205-500-4	174	8111-06			472
7516-00			468	8042	107-06-2	203-458-1	148	8111-07			472
7516-01			468	8043	64742-49-0		200	8111-08			472
7517-00			468	8044	110-54-3	203-777-6	199	8111-09			472
7518-08			466	8045	67-56-1	200-659-6	259	8111-11			472
7519-00			465	8046	67-56-1	200-659-6	257	8111-31			475
7519-01			465	8047	67-56-1	200-659-6	260	8113	78-78-4	201-142-8	263

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8113-01			472	8154-06			473	8170-31			475
8113-02			472	8154-07			473	8172	112-40-3	203-967-9	162
8113-03			472	8154-08			473	8172-00			471
8113-04			472	8154-09			473	8172-01			471
8113-06			472	8154-11			473	8172-02			471
8113-07			472	8154-31			475	8172-03			471
8113-08			472	8156-00			474	8172-06			471
8113-09			472	8156-01			474	8172-07			471
8113-11			472	8156-02			474	8172-08			471
8113-31			475	8156-03			474	8172-09			471
8114	109-66-0	203-692-4	290	8156-04			474	8172-11			471
8115	8032-32-4	232-453-7	296	8156-07			474	8172-31			475
8115-00			472	8156-11			474	8174-00			474
8115-01			472	8156-31			476	8174-04			474
8115-02			472	8157-02			473	8174-06			474
8115-03			472	8157-03			473	8174-07			474
8115-04			472	8157-07			473	8174-08			474
8115-06			472	8157-08			473	8175	67-63-0	200-661-7	334
8115-07			472	8157-09			473	8175-00			474
8115-08			472	8157-31			475	8175-01			474
8115-09			472	8159	111-65-9	203-892-1	283	8175-02			474
8115-11			472	8159-00			471	8175-03			474
8115-31			475	8159-03			471	8175-04			474
8116	8032-32-4	232-453-7	297	8159-07			471	8175-06			474
8117	109-99-9	203-726-8	411	8159-09			471	8175-07			474
8118	1330-20-7	215-535-7	437	8160-00			474	8175-08			474
8118-00			479	8160-02			474	8175-09			474
8119	67-63-0	200-661-7	336	8160-04			474	8175-11			474
8119-01			479	8160-06			474	8175-31			475
8120-01			479	8160-07			474	8176-31			475
8121-01			479	8160-09			474	8178-31			476
8122-01			479	8160-31			476	8180-31			475
8123	93-58-3	202-259-7	262	8163-00			470	8182-31			475
8123-01			479	8163-01			470	8184-00			473
8124-01			479	8163-02			470	8184-01			473
8125-01			479	8163-03			470	8184-02			473
8126-01			479	8163-04			470	8184-03			473
8127-01			479	8163-06			470	8184-04			473
8128-01			479	8163-07			470	8184-06			473
8129-00			479	8163-08			470	8184-07			473
8130-01			479	8163-09			470	8184-08			473
8131-96			479	8163-11			470	8184-09			473
8133	100-42-5	202-851-5	391	8163-31			476	8184-11			473
8134	75-05-8	200-835-2	49	8165-00			470	8184-31			475
8137-01			469	8165-01			470	8188-96			479
8137-10			469	8165-02			470	8192	629-59-4	211-096-0	409
8138-01			469	8165-03			470	8196-00			471
8138-10			469	8165-06			470	8196-01			471
8142	67-64-1	200-662-2	45	8165-07			470	8196-02			471
8144	75-05-8	200-835-2	50	8165-08			470	8196-03			471
8146	108-38-3	203-576-3	437	8165-09			470	8196-04			471
8147	95-47-6	202-422-2	438	8165-11			470	8196-06			471
8150-00			479	8165-31			475	8196-07			471
8151-00			473	8167-00			471	8196-08			471
8151-01			473	8167-02			471	8196-09			471
8151-02			473	8167-03			471	8196-11			471
8151-03			473	8167-07			471	8196-31			475
8151-04			473	8167-11			471	8197-24			479
8151-06			473	8168	124-18-5	204-686-4	144	8204	141-78-6	205-500-4	173
8151-07			473	8168-00			470	8205	110-54-3	203-777-6	197
8151-08			473	8168-01			470	8210	78-83-1	201-148-0	232
8151-09			473	8168-02			470	8212	75-65-0	200-889-7	107
8151-11			473	8168-03			470	8217	540-84-1	208-759-1	426
8151-31			475	8168-04			470	8224	108-10-1	203-550-1	267
8153-00			474	8168-06			470	8228	64-17-5	200-578-6	168
8153-01			474	8168-07			470	8229	64-17-5	200-578-6	169
8153-02			474	8168-08			470	8239	109-66-0	203-692-4	288
8153-03			474	8168-09			470	8240	8032-32-4	232-453-7	296
8153-04			474	8168-11			470	8241	8032-32-4	232-453-7	297
8153-06			474	8168-31			476	8242	8032-32-4	232-453-7	297
8153-07			474	8170-00			470	8243	8032-32-4	232-453-7	298
8153-08			474	8170-01			470	8254	60-29-7	200-467-2	154
8153-09			474	8170-02			470	8257	75-05-8	200-835-2	49
8153-11			474	8170-03			470	8271	1120-21-4	214-300-6	430
8153-31			476	8170-04			470	8280	111-84-2	203-913-4	283
8154-00			473	8170-06			470	8287	109-66-0	203-692-4	289
8154-01			473	8170-07			470	8387	64742-96-7	265-200-4	234
8154-02			473	8170-08			470	8401	60-29-7	200-467-2	154
8154-03			473	8170-09			470	8402	67-56-1	200-659-6	256

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8404	67-56-1	200-659-6	257	9262	110-54-3	203-777-6	197				
8409	107-15-3	203-468-6	174	9263	67-56-1	200-659-6	255				
8414	111-76-2	203-905-0	105	9264	75-09-2	200-838-9	149				
8417	112-34-5	203-961-6	105	9265	8032-32-4	232-453-7	295				
8430	120-82-1	204-428-0	422	9266	8032-32-4	232-453-7	295				
8434	123-91-1	204-661-8	159	9267	64742-49-0		200				
8462	64-17-5	200-578-6	166	9270	8032-32-4	232-453-7	296				
8564	111-46-6	203-872-2	286	9272	8032-32-4	232-453-7	295				
8578	111-92-2	203-921-8	146	9276	141-78-6	205-500-4	173				
8599	77-73-6	201-052-9	151	9277	110-54-3	203-777-6	197				
8662	142-82-5	205-563-8	193	9282	141-78-6	205-500-4	172				
8668	110-54-3	203-777-6	196	9292	110-82-7	203-806-2	140				
8669	110-54-3	203-777-6	199	9295	75-09-2	200-838-9	149				
8685	109-66-0	203-692-4	290	9304	110-54-3	203-777-6	198				
8689	112-27-6	203-953-2	424	9305	64742-49-0		199				
8691	78-30-8	201-103-5	423	9315	75-09-2	200-838-9	149				
8699	64-18-6	200-579-1	181	9316	75-09-2	200-838-9	150				
8706	110-82-7	203-806-2	141	9331	109-66-0	203-692-4	289				
8707	107-06-2	203-458-1	148	9333	109-66-0	203-692-4	289				
8710	110-54-3	205-563-8	198	9334	67-63-0	200-661-7	334				
8714	108-88-3	203-625-9	418	9335	540-84-1	208-759-1	425				
8715	540-84-1	208-759-1	426	9336	108-88-3	203-625-9	418				
8782	766-09-6	212-161-6	175	9338	142-82-5	205-563-8	191				
8792			233	9344	68-12-2	200-679-5	157				
8819	123-38-6	204-623-0	337	9345	872-50-4	212-828-1	268				
8821	75-31-0	200-860-9	233	9351	108-88-3	203-625-9	418				
8822	75-56-9	200-879-2	339	9360	127-18-4	204-825-9	407				
8834			233	9364	108-88-3	203-625-9	419				
8844			204	9365	142-82-5	205-563-8	192				
8845			204	9393	110-86-1	203-809-9	340				
8855			203	9439	109-99-9	203-726-8	409				
8860			203	9440	109-99-9	203-726-8	410				
8861			203	9441	109-99-9	203-726-8	410				
8862			202	9444	120-82-1	204-428-0	421				
8863			202	9446	109-99-9	203-726-8	410				
8890			202	9448			143				
8891			201	9449			143				
8892			202	9451			143				
8898	67-56-1	200-659-6	203	9470	76-05-1	200-929-3	424				
8899			201	9478	75-05-8		52				
9003	7726-95-6	231-778-1	94	9479			52				
9006	7439-97-6	231-106-7	250	9480	540-84-1	208-759-1	425				
9008	7723-14-0	231-768-7	303	9485			118				
9012	75-05-8	200-835-2	48	9488			285				
9015	1313-60-6	215-209-4	381	9497			117				
9017	75-05-8	200-835-2	48	9502	7429-90-5	231-072-3	53				
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9020	75-07-0	200-836-8	42	9504	7440-50-8	231-159-6	134				
9035	75-05-8	200-835-2	49	9509	7440-31-5	231-141-8	414				
9042	1634-04-4	216-653-1	263	9510			118				
9043	1634-04-4	216-653-1	263	9512			118				
9048-03	78-83-1	201-148-0	231	9513	8002-74-2	232-315-6	288				
9049	67-56-1	200-659-6	258	9516	1330-20-7	215-535-7	436				
9051	7705-08-0	231-729-4	229	9518			143				
9077	67-56-1	200-659-6	255	9519			285				
9091	67-56-1	200-659-6	258	9524	64-19-7	200-580-7	43				
9094	7726-95-6	231-778-1	94	9530	7647-01-0	231-595-7	207				
9097	67-56-1	200-659-6	257	9563	7664-39-3	231-634-8	216				
9098	16940-66-2	241-004-4	356	9598	7697-37-2	231-714-2	279				
9099	26628-22-8	247-852-1	355	9600	7647-01-0	231-595-7	210				
9111	121-44-8	204-469-4	423	9653	7601-90-3	231-512-4	293				
9132	76-13-1	200-936-1	423	9820	64-18-6	200-579-1	180				
9161	16940-66-2	241-004-4	355	9821	75-05-8	200-835-2	47				
9174	67-66-3	200-663-8	124	9822	67-56-1	200-659-6	256				
9175	67-66-3	200-663-8	125	9823	7732-18-5	231-791-2	434				
9177	142-82-5	205-563-8	191	9824			183				
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9213	68-12-2	200-679-5	156	9829			57				
9214	78-93-3	201-159-0	265	9830	67-63-0	200-661-7	334				
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9234	67-68-5	200-664-3	158	9832	64-18-6		182				
9237	60-29-7	200-467-2	152	A426	9012-36-6	232-731-8	52				
9250	60-29-7	200-467-2	153	E343	7440-44-0	231-153-3	51				
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9257	67-66-3	200-663-8	124	L034-07	112-53-8	203-982-0	162				
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