



**Ajax Finechem**

Part of Thermo Fisher Scientific

# PRODUCT CATALOGUE



UNIVAR

UNILAB

UNIVOL

UNICHROM

LABCHEM

SPECTROSOL

UNIPURE

# Quality Built on Tradition...

## To You and All Our Partners in Chemistry

Welcome to the latest edition of the Ajax Finechem Chemical Catalogue. The Ajax Chemical Catalogue under various guises including the Fine Chemical Reference Book and the Scientific Products Reference Book, has graced the shelves of laboratories throughout Australia and New Zealand for over a quarter of a century and in more recent times in the Asia Pacific region.

Indeed it is fair to say the Australian scientific community has relied on the consistent quality of Ajax chemicals for more than 70 years.

The brand has grown from somewhat humble beginnings to its current status as the most recognised and requested brand of laboratory chemical in the Australian Scientific market.

The success of the Ajax brand is due in no small part to the ongoing support extended over many years by you our loyal customers and partners. The range has evolved, and continues to do so, primarily in response to your needs.

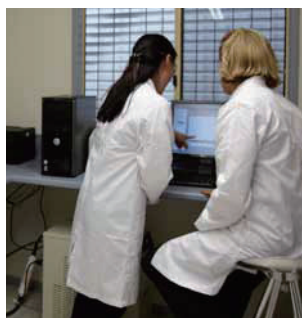
So as the latest version of the Ajax Finechem chemical catalogue is launched it is therefore fitting to extend our gratitude to you and all the customers and partners over many years who have contributed, and continue to contribute, to the Ajax success story.

This new edition of the catalogue provides detailed specifications on all items in the Ajax Finechem range including 400 additional products. It also provides you with current information associated with the safe handling and use of laboratory chemicals including the various dangerous goods class labels, guidelines for the segregation of dangerous goods and a section dedicated to responsible care with chemicals.

Throughout the long history of Ajax, quality and innovation has underpinned the brand and will continue to do so into the future. We are confident the continued focus on quality and innovation combined with a commitment to listen and respond to customers' needs will provide the framework for sustained success in the future.

In conclusion we thank you for your support in the past and trust you will find the new catalogue both useful and informative in assisting you to source your laboratory chemicals in the weeks, months and years ahead.

From the Ajax Finechem Team



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## The Story So Far...

### History, Knowledge and Expertise

The Australian scientific community has relied on the consistent quality of Ajax brand chemicals for more than seventy years.

The Ajax brand quickly established a reputation for quality laboratory reagents in the domestic market and this spread firstly to New Zealand, and later to the Asia Pacific region.

Over the years Ajax has amassed considerable expertise and knowledge in the production, synthesis and purification of laboratory chemicals and this is reflected in the thousands of products available today under the Ajax brand. The range consists of high purity solvents and acids, inorganic salts, plus organic and speciality chemicals.

### In Good Hands

Ajax Finechem was acquired by Lomb Scientific in late 2006 and both Lomb and Ajax were subsequently acquired by Thermo Fisher Scientific in December 2010. Under the stewardship of Lomb Scientific the production facility was moved to its current location in North Western Sydney and significant investment was made to upgrade all aspects of the manufacturing process and in the provision of a new quality control laboratory.

The acquisition of Ajax Finechem by Thermo Fisher Scientific will ensure the continued success of the Ajax brand in an organisation which is the world leader in serving science.

### Expanding Boundaries

Ajax brand products are currently exported to 10 countries in Asia, the Pacific Islands and the Middle East.

The export component has formed an integral part of the Ajax business model for over 30 years and continues to grow in stature and significance.





# ...And Into The Future

## Committed to Quality

An unequivocal commitment to quality is the hallmark of the Ajax brand and will continue to be in the future. The commitment begins with sourcing premium quality materials and carries through to the testing of the final product. The Ajax Finechem product range is produced in a modern plant in North Western Sydney. The site is approved by SIA Global in accordance with policies and procedures documented in ISO 9001 Quality Management Systems Standards.



## A Quality Environment

A new Quality Control laboratory monitors and controls the quality of raw material and performs final quality checks on finished product based on internationally accepted and approved methods.

The modern on-site laboratory utilises an array of the latest analytical techniques and instrumentation including ICP and UV spectroscopy, gas chromatographs, Karl Fischer auto-titrators and density meters. A team of tertiary qualified experienced and dedicated laboratory professionals control the quality of all raw materials, used in production.

Samples of finished products are retained from each batch manufactured to ensure consistency and adherence to published specifications.

## Stock of the Trade

Primary standards used in the laboratory conform to the National Institute of Standards and Technology (NIST). These materials are designated Standard Reference Materials (SRM) and are used to calibrate and verify the accuracy of instrumentation used in the laboratory and to evaluate quality systems methodology and procedures or to produce scientific data for use in referring to a common base or in other words 'NIST Traceable'.

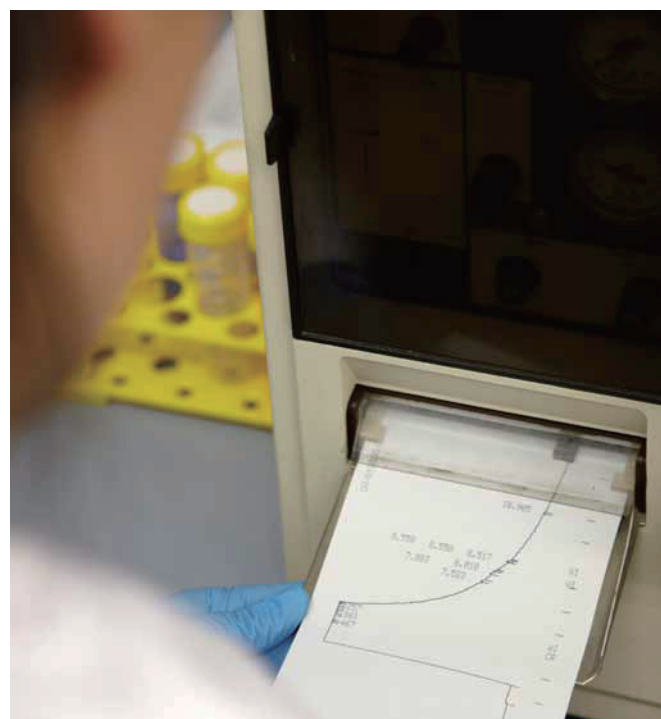
## Traceability

Ajax Finechem products are assigned a 7-digit Batch Number during the manufacturing process. Each series of digits indicates specific data regarding the product as the following example demonstrates:

Batch Number 1001123

- > 10 – The first two digits denotes the year of manufacture which is 2010 in this example
- > 01 – The second two digits denotes the month of manufacture which is January in this example
- > 123 – The last three digits are a sequential manufacturing batch number.

Certificates of Analysis are available to accompany individual products during transportation and are available upon request or for subsequent download from [www.ajaxfinechem.com](http://www.ajaxfinechem.com).



# Ajax Finechem Product Grades

Ajax Finechem utilises a colour-coded labelling system for all of its scientific product range as a guide to quality and purity. Label colours are shown for each Ajax grade group below:



## Extra Pure Analytical Reagents

The UNIPURE product range consists of ultra pure reagents which exceed ACS specifications. The reagents are used for highly sensitive applications such as trace metal analysis and as reference standards.



## Analytical Reagents

UNIVAR® products have long been recognised as the standard for analytical reagents in Australia and in overseas markets. In many cases, the purity conforms to and exceeds ACS.



## Laboratory Reagents

UNILAB® products are reagent quality chemicals suitable for general laboratory work, and in most cases, meet BP, USP and/or EP standards.



## Analytical Volumetric Solutions

UNIVOL® ready to use analytical volumetric solutions are standardised to specific concentrations normally used in laboratory analysis.



## HPLC Reagents

The UNICHROM® product range is specially made for high performance liquid chromatography. The range includes high purity solvents, tested to meet strict UV absorbance specifications as well as ion pairing reagents.



## General Purpose Reagents

The LABCHEM® range of chemicals are in many cases quality reagents for a particular analysis where no set standard is applicable.



## Spectroscopy Materials

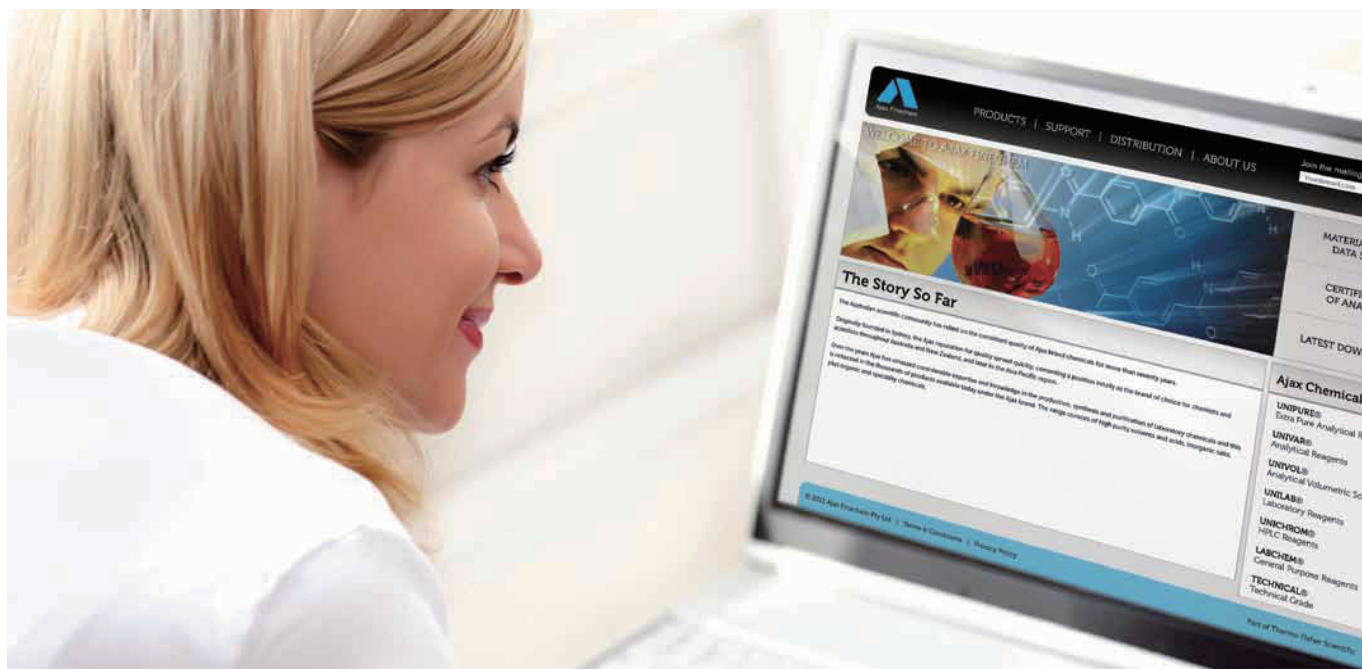
\*SPECTROSOL® reagents are specifically made to conform to strict quality specifications for UV, Visible and Atomic Absorption Spectroscopy (AAS) techniques.



## Technical Grade

General purpose reagents for quantitative work.

\*Spectrosol® is a registered trademark of Nuplex Industries (Aust) Pty Ltd



# Your Window to the Ajax World

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

The website is also your source for up to date information on compliance and regulatory issues, current promotions and product literature.

## Search, Browse and Find Products Quickly and Easily

Finding the products you require is easy using the product search function which is designed to search for products by product name or catalogue and/or CAS number. Simply enter the details in any of the search fields and quickly locate the product you require from over 4000 products and pack sizes available in the Ajax range.

## Product Specifications

Having quickly and easily found the product you require you may need to check the product specifications to determine its suitability for your intended application. Simply click on the product name and the specifications are instantly available.

## Product and Technical Support

Perhaps you require a Certificate of Analysis for a product you have already purchased? Once more this is readily available by entering the product details and batch number.

Material Safety Data Sheets are also available for download from the website which also provides the very latest compliance and regulatory information including useful links to various compliance and regulatory websites.

## Trading Terms & Conditions and Privacy Policy

The Ajax Finechem website is also your source to view the trading terms and conditions which applies to all Ajax Finechem transactions. You can also review the organisations Privacy Policy online.

## Catalogue and Promotional Literature

View or download current promotional literature including the current catalogue and product guides or find your nearest Ajax distributor online at [www.ajaxfinechem.com](http://www.ajaxfinechem.com).

## Promotions and Special Offers

[www.ajaxfinechem.com](http://www.ajaxfinechem.com) is also your source for promotions and special offers. View the promotions directly on the website or alternatively register your details using the contact form to ensure you will receive the Ajax eNewsletter which will feature current promotions and special offers.

Stay connected and informed with the Ajax Finechem website. Bookmark it today and don't forget to share it with your friends.





# Regional Distribution

Ajax Chemicals are currently exported to more than 10 countries in Asia, the Pacific Islands and the Middle East. The export component has formed an integral part of the Ajax business model for over 30 years and continues to grow in stature and significance. A dedicated export team has travelled extensively in each of the overseas markets serviced, and developed an in depth understanding of the unique markets needs and conditions in each territory. This understanding extends from product and technical knowledge and support, to compliance issues particularly in relation to the documentation required for the export, transportation and importation of chemicals, to the various territories serviced.

The knowledge and understanding of the various markets serviced has resulted in sustained growth, cementing Ajax as the premier Australian exporter of laboratory and fine grade chemicals. Visit [www.ajaxfinechem.com](http://www.ajaxfinechem.com) to locate your nearest Ajax Finechem distributor in your region.

## Distribution in Asia, the Pacific Islands and the Middle East

- > Fiji
- > Hong Kong
- > Indonesia
- > Malaysia
- > New Caledonia
- > Papua New Guinea
- > Phillipines
- > Saudi Arabia
- > Singapore
- > Taiwan
- > Thailand
- > Vietnam

## Distribution in Australia and New Zealand

- > Auckland
- > New South Wales
- > Northern Territory
- > Queensland
- > South Australia
- > Tasmania
- > Victoria
- > Western Australia



Find your nearest Ajax distributor visit [www.ajaxfinechem.com](http://www.ajaxfinechem.com)



## Responsible Care with Chemicals

Ajax Finechem offers a wide range of chemicals and many of the products are either highly flammable, corrosive and or toxic. Understanding the specific characteristics of a chemical is the key to its safe handling, transportation and use.

Personal and environmental safety is a guiding principle in Ajax Finechem and these principles are reflected in all aspects of our operations. They are particularly evident in the area of product packaging where innovation has contributed to significantly reduce risk while providing an increased level of both personal and environmental safety.

Ajax Finechem is focused on ensuring compliance with all current Australian regulatory and non regulatory standards involving the labelling, transportation, storage and use of chemicals. Ajax actively engages with a number of regulatory and non regulatory bodies in Australia to ensure the information contained in their chemical data base is always up to the date; accurately reflecting current guidelines and regulations.

Following is a list of the Australian regulatory and non regulatory bodies Ajax consults with on a regular basis.

### MSDS

Material Safety Data Sheets (MSDS) are available for all products in the Ajax Finechem range. MSD Sheets are produced in accordance with the current Australian standard format and are maintained in accordance with the ever evolving regulatory requirements. MSD Sheets are the prime source of information pertaining to the safe handling, storage, transportation, use and disposal of chemicals.

They are available to accompany chemicals during transportation and are also available for download from the Ajax Finechem website: [www.ajaxfinechem.com](http://www.ajaxfinechem.com).

MSD Sheets provide information on:

- > Product identification including chemical name, formula, UN Number, ADG Classification and physical data.
- > Details on health hazards and first aid advice.
- > Guidelines for the safe use of chemicals and in particular maintaining personal safety.
- > Safe handling (storage, transport, spills, disposal, fire hazard)

### NICNAS

In Australia, industrial chemicals are regulated by the Australian Government under the Industrial Chemicals (Notification and Assessment) Act 1989. NICNAS (National Industrial Chemicals Notification and Assessment Scheme) is the Australian Government regulatory authority for industrial chemicals and was established in 1990.

NICNAS:

- > Provides a national notification and assessment scheme to protect the health of the public, workers and the environment from the harmful effect of industrial chemicals and;
- > Assesses all chemicals new to Australia and those already in use (existing chemicals) on a priority basis, in response to concerns about their safety on health and environmental grounds.

A chemical cannot be imported into Australia unless it is registered with NICNAS, with the exception of small quantities imported for research purposes.

The chemicals approved for importation by NICNAS are outlined on the AICS (Australian Inventory of Chemical Substances) register. Further information on NICNAS can be obtained on [www.nicnas.gov.au](http://www.nicnas.gov.au)

## Safe Work Australia

Safe Work Australia is an Australian Government statutory agency established in 2009, with the primary responsibility of improving work health and safety and workers' compensation arrangements across Australia.

It is an inclusive tripartite body comprising 15 members, including an independent chair, 9 members representing the Commonwealth and each State and territory, two representing interests of employers and the Group Manager of Safe Work Australia. The key functions of Safe Work Australia are to:

- > Develop National policy relating to OHS and workers compensation;
- > Prepare Model Acts and Regulations, Codes of Practice and other materials relating to OHS;
- > Develop policy to ensure that a nationally consistent approach is taken to compliance and enforcement, and to monitor adoption of the model legislation and COPs by the Commonwealth, States and Territories;
- > Collect, analyse and publish data and research relating to OHS and workers compensation;
- > Revise and further develop the National OHS strategy 2002 2012 developed by Workplace Relations Minister's Council

Further information can be found at [safeworkaustralia.gov.au](http://safeworkaustralia.gov.au)

## SUSMP

The Standard for the Uniform Scheduling of Medicines and Poisons (previously known as the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)) is prepared by the Secretary of the Department of Health and Ageing and Advisory Committees on Medicine Scheduling and Chemical Scheduling.

The poisons standard contains details on the classification of medicines and poisons for inclusion in the relevant legislation of the States and Territories. It also includes model provisions for labelling, containers, storage and possession of unregistered poisons.

Further information can be found at <http://www.tga.gov.au/ndpsc/susdp.htm>

## ADG

The Australian Dangerous Goods Code 7th Edition sets out requirements and guidelines relating to the transport of dangerous goods by road and rail in Australia.

The code is prepared by the National Transport Commission in conjunctions with Advisory committees in the transport of dangerous goods. The technical requirements of the code are based on the provisions of the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations, 15th Revised edition.

Further information can be found at [www.ntc.gov.au](http://www.ntc.gov.au)

## IMDG

The International Maritime Dangerous Goods Code lists the requirements for transport of Dangerous goods by sea. Transport of dangerous goods by sea is regulated in order to prevent personal injury or damage to ships and cargo or to the marine environment.







# Prohibited Substances

## Biological Materials

The importation of products containing biological material is essential to further Australian scientific research. Imported products may contain material from human, animal or plant origin and this biological material may be contaminated with pathogens, and in particular viruses. Although products are subject to various forms and methods of decontamination these are not always completely effective in guaranteeing products are free from contamination. As a result the importation of all products containing material of a biological origin are subject to regulation by the Australian Quarantine and Inspection Service (AQIS). AQIS monitors and controls the importation of products containing materials of a biological origin. No product can be imported without a suitable permit and appropriate approval from AQIS.

Further information on regulations governing the importation of Biological materials can be obtained on [www.aqis.gov.au](http://www.aqis.gov.au).

## Drug Precursors

Some chemicals can be used for the manufacture of illicit drugs. Most states in Australia now have legislation in place (based on PACIA's Code of Practice for the Supply Diversion into illicit Drug Manufacture) controlling access to drug precursor chemicals. These controls include obtaining photo ID and end user declarations from purchasers of these precursor chemicals. This information is made available to the police. Further information can be obtained by reviewing relevant state's legislation.

## Chemical Weapons Precursors

Certain chemicals can be used to produce weapons. The Chemical Weapons Convention (CWC) is an international treaty prohibiting the development, production, acquisition, stockpiling, retention, transfer or use of chemical weapons, and requires the destruction of existing weapons. The CWC was enacted on 29 April 1997. Australia signed the Convention in January 1993 and this was ratified in May 1994. As of 21 May 2009 there were 188 member countries to the CWC. Each CWC member country must provide assurance that it is honouring its commitments not to engage in prohibited activities by:

- > Destroying all chemical weapons within 10 years after the CWC's entry into force in strict accordance with the treaty's specifications;
- > Declaring information on certain chemical activities to the Organisation for the Prohibition of Chemical Weapons (OPCW), the international implementation agency; and
- > Permitting inspections of relevant chemical facilities by the OPCW.

Australia does not possess chemical weapons. It is an active member country of the CWC, ensuring that the treaty is effective in promoting international security. Further information on Chemical Weapons can be obtained on [www.dfat.gov.au/cwco](http://www.dfat.gov.au/cwco).

# Segregation of Dangerous Goods

## Segregation of Dangerous Goods in Road Vehicles and Freight Containers

The following table (Table 9.1 – Incompatibility based on Classification) is taken from The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code), 7th Edition, page 630. The table lists compatibility of different classes of chemicals when transported by road and rail.

Goods are considered Incompatible if, in this Table, any of the following Conditions are met:

- (a) the primary hazard of one is incompatible with the primary hazard of the other; or
- (b) the primary hazard of one is incompatible with a subsidiary risk of the other; or
- (c) a subsidiary risk of one is incompatible with a subsidiary risk of the other.

CLASS or DIVISION	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6	7 (7)	8	9	Food or Food Empties	Fire Risk Substances or Combustible liquids
1 Explosives	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
2.1 Flammable gas	(1)	O	O <sup>(3)</sup>	O	O <sup>(2)</sup>	N	N	N	N	N	O	N	O	O	O	O
2.2 Non-flammable non-toxic gas	(1)	O <sup>(3)</sup>	O	O <sup>(4)</sup>	O	O	N	O	O	N	O	O	O	O	O	O
2.3 Toxic gas	(1)	O	O <sup>(4)</sup>	O	N	O	N	O	N	N	O	O	O	O	N <sup>(8)</sup>	O
3 Flammable liquid	(1)	O <sup>(2)</sup>	O	N	O	O	N	O	N	N	O <sup>(6)</sup>	N	O	O	O	O
4.1 Flammable solid	(1)	N	O	O	O	O	N	O	N	N	O	N	O	O	O	O
4.2 Spontaneously combustible	(1)	N	N	N	N	N	O	O	N	N	O	N	O	O	O	O
4.3 Dangerous when wet	(1)	N	O	O	O	O	O	O	N	N	O	N	N	O	O	O
5.1 Oxidising substances	(1)	N	O	N	N	N	N	N	O <sup>(6)</sup>	N	O <sup>(5)</sup>	N	N	O <sup>(5)</sup>	O	N
5.2 Organic peroxides	(1)	N	N	N	N	N	N	N	N	O	O <sup>(5)</sup>	N	N	O <sup>(5)</sup>	O	N
6 Toxic or infectious substances	(1)	O	O	O	O <sup>(5)</sup>	O	O	O	O <sup>(5)</sup>	O <sup>(5)</sup>	O	O	O <sup>(6)</sup>	O	N <sup>(8)</sup>	O
7 Radioactive material (7)	(1)	N	O	O	N	N	N	N	N	N	O	O	N	O	N <sup>(8)</sup>	O
8 Corrosive substances	(1)	O	O	O	O	O	O	N	N	N	O <sup>(6)</sup>	N	O <sup>(6)</sup>	O	N <sup>(8)</sup>	O
9 Miscellaneous dangerous goods	(1)	O	O	O	O	O	O	O	O <sup>(5)</sup>	O <sup>(5)</sup>	O	O	O	O	O	O

### In this Table:

O means compatible unless a numbered exception applies

N means incompatible unless a numbered exception applies

### Exceptions:

(1) Explosives are incompatible in transport with all other dangerous goods in all quantities except as provided in the Australian Explosives Code, or, for Division 1.4S, where 9.1.2.2.2 applies

(2) Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.

(3) Division 2.1 is incompatible in transport with gases of Division 2.2 that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500 L capacity.

(4) Division 2.3 is incompatible in transport with gases of Division 2.2 that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500 L capacity.

(5) Class 5 is incompatible with those Class 6 or Class 9 materials that are fire-risk substances.

(6) Some specific examples of these Classes or Divisions are incompatible – Refer Table 9.2 (page 631 of ADG 7th Ed).

(7) See the Code of Practice for the Safe Transport of Radioactive Substances regarding the compatibility of Class 7 with undeveloped photographic film, personnel and mail.

(8) Food and food packagings are incompatible with these classes in all quantities, except where 9.1.2.3 applies.

# Dangerous Goods Class Labels

It is essential any individual involved in the handling, storage, transportation or use of dangerous goods is familiar with the various symbols displayed on product labels and understands the properties of specific chemicals. Dangerous goods are assigned to one of nine classes dependent on the main danger presented.

It is important you know which goods produce toxic gas, which are highly flammable, which are dangerous when wet, or which are dangerous when they come into contact with air. More detailed information about dangerous goods and their properties can be found in the 7th edition of the Australian Dangerous Goods Code.

## Class 1 – Explosive Substances or Articles



Division 1.1 – Substances and articles which have a mass explosion hazard affecting entire load virtually instantaneously

Division 1.2 – Substances and articles which have a projection hazard but not a mass explosion hazard

Division 1.3 – Substances and articles which have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard.



Division 1.4 – Substance present only a small hazard in the event of ignition or initiation during transport.

Effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected.



Division 1.5 – Substances that have a mass explosion hazard but are so insensitive that there is very little probability of initiation or of transition from burning to detonation under normal conditions of transport.



Division 1.6 – Articles that contain only extremely insensitive detonating substances and which demonstrate a negligible of accidental initiation or propagation.

Note: \*\* denotes area on the label to display division and compatibility group

## Class 2 – Gases



Division 2.1 – Flammable Gases – Gases that are ignitable in air on contact with source of ignition



Division 2.2 – Non-flammable, non-toxic gases – Gases that are asphyxiant, oxidising or don't fall under other divisions

Sub Risk 5.1 – Oxidising Gases – Label valid only for road transport in Australia



Division 2.3 – Toxic Gases – Gases that are known or presumed to be toxic or corrosive to human health

## Class 3 – Flammable Liquids



Flammable liquids and liquid desensitised explosives

## Class 4 – Flammable Solids



Division 4.1 – Flammable Solids – Solids which are readily combustible or liable to cause fire through friction



Division 4.2 – Spontaneously Combustible – Substances which are liable to spontaneous heating and ignition



Division 4.3 – Substances which in contact with water emit flammable gases



## Class 5 – Oxidising Substances and Organic Peroxides



Division 5.1 – Oxidising Agents – Substances likely to increase the risk and intensity of fire in other materials



Division 5.2 – Organic Peroxides – Organic Peroxides are liable to exothermic decomposition at normal or elevated temperatures

## Class 6 – Toxic and Infectious Substances



Division 6.1 – Toxic Substances – Substances that are liable to cause death or serious injury to human health if swallowed or inhaled or by skin contact



Division 6.2 – Infectious Substances – Substances known or reasonably expected to contain pathogens, which can cause disease in humans or animals.

## Class 7 – Radioactive Substances

Subject to the ADG code only when transported with other DG classes. Transport of Class 7 by road or rail is subject to State/Territory legislation and the Code of Practice for the Safe Transport of Radioactive Substances.



Basic class placard for use on road/rail vehicle only.

Containers must be labelled with appropriate category label as below:



Category I



Category II



Category III



Fissile Material

## Class 8 – Corrosive Substances



Substances which, by chemical action, will cause severe damage when in contact with living tissue, or in the case of leakage, will materially damage, or even destroy, other goods or the means of transport.

## Class 9 – Miscellaneous Dangerous Substances and Articles



Substances and articles which, during transport, present a danger not covered by other classes.

Please see the 7th Edition of the Australian Dangerous Goods code for more information

# List of Safety Phrases

- S1 keep locked up
- S2 keep out of the reach of children
- S3 keep in a cool place
- S4 keep away from living quarters
- S5 keep contents under... (appropriate liquid to be specified by the manufacturer)
- S6 keep under... (inert gas to be specified by the manufacturer)
- S7 keep container tightly closed
- 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 feeding stuffs
- S14 keep away from... (incompatible materials to be indicated by the manufacturer)
- 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
- S21 When using do not smoke
- S22 Do not breathe dust
- S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
- S24 Avoid contact with skin
- 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
- S28 After contact with skin, wash immediately with plenty of... (to be specified by the manufacturer)
- S29 Do not empty into drains
- 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
- S37 Wear suitable gloves
- 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
- S42 During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer)
- S43 In case of fire use... (indicate in the space the precise type of fire-fighting equipment. If water increases the risk add: '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)
- S48 keep wetted with... (appropriate material to be specified by the manufacturer)
- S49 keep only in the original container
- S50 Do not mix with... (to be specified by the manufacturer)
- S51 Use only open well-ventilated areas
- S52 Not recommended for interior use on large surface areas
- S53 Avoid exposure – obtain special instructions before use
- S56 Dispose of this material and its container at a hazardous or special waste collection point
- S57 Use appropriate container to avoid environmental contamination
- S59 Refer to manufacturer/supplier for information on recovery/recycling
- S60 This material and its container must be disposed of as hazardous waste
- S61 Avoid release to the environment. Refer to special instructions/ Material Safety Data Sheets
- S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label
- S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest
- S64 If swallowed, rinse mouth with water (only if the person is conscious)

# List of Risk Phrases

- |     |   |     |  |
|-----|---|-----|--|
| R1  | Explosive when dry  | R35 | Causes severe burns  |
| R2  | Risk of explosion by shock, friction, fire or other sources of ignition     | R36 | Irritating to eyes   |
| R3  | Extreme risk of explosion by shock, friction, fire & other ignition sources | R37 | Irritating to respiratory system                               |
| R4  | Forms very sensitive explosive metallic compound                            | R38 | Irritating to skin   |
| R5  | Heating may cause explosion   | R39 | Danger of very serious irreversible effects                    |
| R6  | Explosive with or without contact with air                                  | R40 | Possible risk of irreversible effects                          |
| R7  | May cause fire  | R41 | Risk of serious damage to eyes                                 |
| R8  | Contact with combustible material may cause fire                            | R42 | May cause sensitisation by inhalation                          |
| R9  | Explosive when mixed with combustible material                              | R43 | May cause sensitisation by skin contact                        |
| R10 | Flammable   | R45 | May cause cancer   |
| R11 | Highly flammable  | R46 | May cause heritable genetic damage                             |
| R12 | Extremely flammable   | R48 | Danger of serious damage to health by prolonged exposure       |
| R14 | Reacts violently with water   | R49 | May cause cancer by inhalation                                 |
| R15 | Contact with water liberates extremely flammable gases                      | R50 | Very toxic to aquatic organisms                                |
| R16 | Explosive when mixed with oxidising substances                              | R51 | Toxic to aquatic organisms                                     |
| R17 | Spontaneously flammable in air  | R52 | Harmful to aquatic organisms                                   |
| R18 | In use may form flammable/explosive vapour-air mixture                      | R53 | May cause long term adverse effects in the aquatic environment |
| R19 | May form explosive peroxides  | R54 | Toxic to flora   |
| R20 | Harmful by inhalation   | R55 | Toxic to fauna   |
| R21 | Harmful in contact with skin  | R56 | Toxic to soil organisms  |
| R22 | Harmful if swallowed  | R57 | Toxic to bees  |
| R23 | Toxic by inhalation   | R58 | May cause long term adverse effects in the environment         |
| R24 | Toxic in contact with skin  | R59 | Dangerous for the ozone layer                                  |
| R25 | Toxic if swallowed  | R60 | May impair fertility   |
| R26 | Very toxic by inhalation  | R61 | May cause harm to the unborn child                             |
| R27 | Very toxic in contact with skin   | R62 | Possible risk of impaired fertility                            |
| R28 | Very toxic if swallowed   | R63 | Possible risk of harm to the unborn child                      |
| R29 | Contact with water liberates toxic gas                                      | R64 | May cause harm to breastfed babies                             |
| R31 | Contact with acids liberates toxic gas                                      | R65 | Harmful: May cause lung damage if swallowed                    |
| R32 | Contact with acids liberates very toxic gas                                 | R66 | Repeated exposure may cause skin dryness or cracking           |
| R33 | Danger of cumulative effects  | R67 | Vapours may cause drowsiness and dizziness                     |
| R34 | Causes burns  | R68 | Possible risk of irreversible effects                          |







## Packaging and Shelf Life

Over the years, Ajax Finechem has established a reputation for developing innovative packaging solutions for the laboratory chemical market. Packaging innovations have ranged from the introduction of environmentally friendly recyclable cardboard packaging to the development of a special grade of plastic bottle which is chemically compatible with a wide range of commonly used acids and solvent. The type of packaging selected for specific products is based on the compatibility of the chemical with the chosen packaging material. Other considerations include maximising product shelf life and the need to ensure product security and integrity.

Pack sizes available, range in size from 1g to 200 litres. Generally products are available in a range of convenient sizes as detailed in the product specifications section of this catalogue.

### Product Shelf Life

The Ajax Finechem range is supplied in either glass, plastic, metal or cardboard, packaging which is specifically selected to maximise product shelf life and to ensure product security and integrity.

#### Opened Containers

The shelf life of opened containers is also contingent on a number of factors including storage conditions and the frequency of use. Generally opened products which are stored away from exposure to sunlight and extreme temperatures and are contaminant free, may be used for a period of up to 5 years after initial use.

Specific products, such as non-sterile aqueous solutions, are prone to deterioration due to micro-organism attack or migration of atmospheric gases. The unopened shelf life of these products may be less than 2 years.

#### Unopened Containers

Generally the shelf life of unopened containers is at least 5 years, however the product quality and thus suitability for intended use is contingent on a number of factors and in particular storage conditions.

It is essential unopened products are stored in an appropriate environment; away from exposure to sunlight and extreme temperatures.

# Methanol

4 CAS 67-56-1

5 Synonyms: Methyl Alcohol, Carbinol

6 CH<sub>3</sub>OH = 32.0

7 U.N Number..... 1230

8 ADG Class..... 3

Subsidiary Risk..... 6.1

9 Packing Group .....II



10

## 1 723 2 Methanol, Anhydrous

3 UNIVAR

11 Description: A clear, hygroscopic liquid with a characteristic odour.

12 Assay..... 99.8% min.

B.R. (100%)..... 2.0°C max. incl. 64.6 +/-0.1°C

Colour (APHA)..... 10max.

12 Minimum Limit of Impurities (%)

R.A.E..... 0.001

Sol. (in H<sub>2</sub>O)..... to pass test

Titrate acid..... 0.03 mmol H

Titrate base..... 0.02 mmol OH

Acetone, aldehydes (as (CH<sub>3</sub>)<sub>2</sub>CO) ..... 0.005

Subs. darkened by H<sub>2</sub>SO<sub>4</sub> ..... To pass test

Subs. red. KMnO<sub>4</sub> (as O) ..... To pass test

H<sub>2</sub>O ..... 0.01

13 Pack Size: 500ml, 2.5L, 20L

## Everything You need to Know at a Glance

### 1 Catalogue Number

To be used in ordering a product

### 2 Chemical Name

All chemical names appear in alphabetical order

### 3 Grade

Ajax Finechem brand name indicating the grade of the chemical

### 4 CAS Number

The CAS Number is a unique number assigned to a substance when it is entered into the Chemical Abstracts Service (CAS) registry database

### 5 Synonyms

Alternate chemical name

### 6 Molecular Formula/Molecular Weight

The molecular formula and molecular weight for the pure chemical

### 7 United Nations Identification Number

Assigned by the United Nations Committee of Experts to identify general or a particular group of dangerous goods. It is required to be written on the label of all products classified as Dangerous Goods

### 8 Australian Dangerous Goods Class

The Australian Dangerous Goods code (ADG) classification for both classification class and Subsidiary risk classification

### 9 Packing Group Code

Allocation to one of the three categories according to the degree of danger that the products represent:

Packing Group I - great danger

Packing Group II - medium danger

Packing Group III - minor danger

### 10 Australian Dangerous Goods Class Labels

Conforming to the Australian Dangerous Goods Code (ADG) requirements

### 11 Description and Properties

The description of selected physical properties of the chemical

### 12 Assays and Limits of Impurities

The assay of the chemical and maximum limits of impurities indicate the quality and specific impurity levels which may be important in certain analytical techniques

### 13 Pack Size

Indicates the pack size(s) available

## Acacia

CAS 9000-01-5

**1100****Acacia**

TECHNICAL

Powder &amp; irregular fragments of odourless &amp; tasteless material.

Maximum limit of impurities(%)

Insolubles..... 0.06

L.O.D..... 13.7

Sulphated ash..... 4.5

Pack Size: 500g

## Acenaphthene

CAS 83-32-9

 $C_{12}H_{10}$  = 154.21 g/mol**144****Acenaphthene For Synthesis**

UNILAB

Assay.....96% min.

M.P. ....90 – 93°C

Pack Size: 100g

## Aces Biological Buffer

CAS 7365-82-4

 $NH_2COCH_2NHCH_2CH_2SO_3H$  = 182.2**3297****Aces Biological Buffer**

UNIVAR

Biological Buffer which is enzymatically &amp; Hydrolytically stable; Negligible UV Absorption; forms soluble complexes with cations. pH Range 6.4-7.4

app: White, clear crystals.

pKa (20°C).....6.88

Assay.....98.5% min. (after drying)

Maximum limit of impurities(%)

L.O.D..... 0.2

R.O.I..... 0.2

SO<sub>4</sub>..... 0.01

Fe..... 0.0005

Pb..... 0.0010

Abs (260 nm, 5%, 1 cm)..... 0.1

Pack Size: 100g,1kg

## Acetamide

CAS 60-35-5

 $CH_3CONH_2$  = 59.07**846****Acetamide**

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Acidity (as  $CH_3COOH$ )..... 0.5Water ( $H_2O$ ) by Karl Fischer..... 0.3

Pack Size: 100g

## Acetanilide

CAS 103-84-4  
 $C_6H_5NHCOCH_3 = 135.17$

### 847 Acetanilide

UNILAB

M.P. ....112-115°C  
 Assay.....99% min.

Maximum limit of impurities(%)

Sulph. ash. .... 0.1  
 H.M. (as Pb). .... 0.001

Pack Size: 500g

Acetdimethylamide (See N-N-Dimethylacetamide Page 179 )

## Acetic Acid

CAS 64-19-7  
 $CH_3COOH = 60.05$

U.N Number.....2789  
 ADG Class.....8  
 SUB.....3  
 Packing Group.....II



### 796 Acetic Acid Anhydrous

UNIVAR

**Description:** a translucent crystalline mass, or at temperatures above its freezing point, a clear colourless liquid; odour, pungent.

Assay.....99.7% min.  
 Colour (APHA).....10 max.  
 Density.....1.050g/mL max.  
 F.P.....16.0°C min.

Maximum limit of impurities(%)

R.A.E. .... 0.001  
 Dil. with  $H_2O$ . .... passes test  
 Titratable base. .... 0.04 mmol OH  
 Cl. .... 0.0001  
 $SO_4$ . .... 0.0001  
 Fe. .... 0.00002

H.M. (as Pb). .... 0.00005  
 $(CH_3CO)_2O$ . .... 0.01  
 Subs. red.  $K_2Cr_2O_7$  (as O). .... 0.003  
 Subs. red.  $KmnO_4$  (as O). .... 0.0006  
 $H_2O$ . .... 0.1

Pack Size: 2.5L

### 2335 Acetic Acid glacial

UNICHROM

**Description:** clear liquid with a characteristic pungent odour.

R.I= 1.372  
 Viscosity@20°C.....1.22cP  
 Assay(GLC) .....>99.7%

#### UV Absorbance

$\lambda$ (nm)	252	254	280
Max abs.	1.00	0.60	0.02

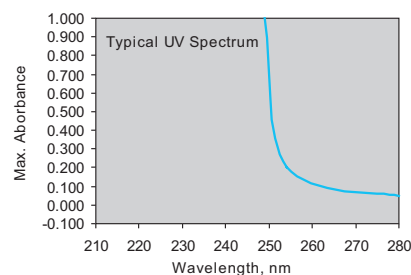
Maximum limit of impurities(%)

Non-vol. .... 0.001  
 $H_2O$  (by K.F.). .... 0.3

#### Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L





1

**Acetic Acid glacial**

UNIVAR

**Description:** a translucent crystalline mass, or at temperatures above its freezing point, a clear, colourless liquid; odour, pungent.

Assay.....99.7% min.  
 Colour (APHA).....10 max.  
 Density.....1.050g/mL max.  
 F.P. ....16.0°C min.

Maximum limit of impurities(%)

Subs red KMnO <sub>4</sub> .....	passes test		
Acetic Anhydride.....	0.01	Ni.....	0.000002
Cl.....	0.0001	Cd.....	0.000002
SO <sub>4</sub> .....	0.0001	Co.....	0.000001
K.....	0.0001	Mn.....	0.000001
Ba.....	0.0001	Sr.....	0.000001
Dil.with H <sub>2</sub> O.....	passes test	Fe.....	0.000002
R.A.E.....	0.001	Cr.....	0.000002
Al.....	0.00001	Subs.reducing K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> .....	passes test
Mg.....	0.00001	Titrateable Base.....	0.04 mmol
Zn.....	0.00001	Na.....	0.0005
Cu.....	0.000002	Ca.....	0.0002
Pb.....	0.000002	HM (as Pb).....	0.00005
Mo.....	0.000002		

Conforms to ACS

Pack Size: 500ML,2.5L GL,2.5L PL,20L,200L

2

**Acetic Acid glacial**

UNILAB

**Description:** A crystalline mass or a clear, colourless, volatile liquid.

Assay.....99.0 100.5%  
 F.P. ....14.8°C min.

Maximum limit of impurities(%)

Clarity & colour.....	passes test		
Cl.....	0.0025	Fe.....	0.0005
SO <sub>4</sub> .....	0.0050	Reducing substances.....	passes test
H.M (as Pb).....	0.0005	Residue on evaporation.....	0.01

Physical and Chemical parameters conform to BP

Pack Size: 500ML,2.5L GL,2.5L PL,20L

**Acetic Acid Ammonium Salt** (See Ammonium Acetate Page 47 )

**Acetic Acid Potassium Salt** (See Potassium Acetate Anhydrous Page 341 )

**Acetic Acid Sodium Salt** (See Sodium Acetate Anhyd Page 390 )

**Acetic Acid Zinc Salt** (See Zinc Acetate Page 481 )

# Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Non-Hazardous
- <> Safe for the environment
- <> Harmless

**Cat-No**    **Pack Size**  
**8745**      500g, 1kg, 3kg, 5kg, 25kg

## Acetic Anhydride

CAS 108-24-7

Synonyms: Acetic Oxide, Ethanoic Anhydride

$(\text{CH}_3\text{CO})_2\text{O}$  = 102.09

U.N Number.....1715

ADG Class.....8

SUB.....3

Packing Group.....II



### 4 Acetic Anhydride

UNIVAR

**Description:** clear liquid with a pungent odour.

Assay.....97.0% min.

Maximum limit of impurities(%)

R.A.E..... 0.003

Cl..... 0.0005

PO<sub>4</sub>..... 0.001

SO<sub>4</sub>..... 0.0005

Fe..... 0.0005

H.M. (as Pb)..... 0.0002

Subs. red. KmnO<sub>4</sub>..... Passes test

Conforms to ACS

Pack Size: 500mL, 2.5L

### 5 Acetic Anhydride

UNILAB

Density about.....1.08g/mL

Assay.....96.0% min.

Maximum limit of impurities(%)

Non-vol..... 0.02

Cl..... 0.01

SO<sub>4</sub>..... 0.03

Pack Size: 500ML,2.5L GL

**Acetic Acid Amide** (See Acetamide Page 19 )

**Acetic Acid Butyl Ester** (See N-Butyl Acetate Page 109 )

**Acetic Acid Methyl Ester** (See Methyl Acetate Page 286 )

**Acetic Oxide** (See Acetic Anhydride Page 22 )

**Acetoacetic Acid** (See Ethyl Acetoacetate Page 196 )

**Acid Red 92** (See Phloxine B Page 334 )

## Acetoacetanilide

CAS 102-01-2

$\text{C}_{10}\text{H}_{11}\text{NO}_2$  =177.20

### 143 Acetoacetanilide For Synthesis

UNILAB

ASSAY.....98% min.

M.P. ....81 -85°C

Pack Size: 500g

## Acetone

CAS 67-64-1  
**Synonyms:** 2-Propanone, Dimethylketone  
 $(\text{CH}_3)_2\text{CO} = 58.08$

U.N Number.....1090  
 ADG Class.....3  
 Packing Group.....II



### 2546 Acetone

UNICHROM

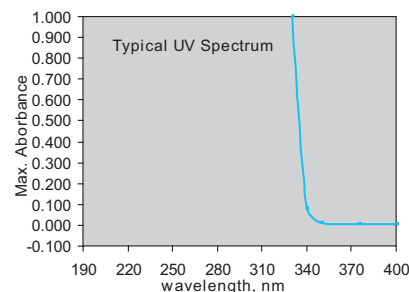
**Description:** clear liquid with a characteristic odour.  
 R.I. @ 20°C.....1.360  
 Viscosity @ 20°C.....0.32 cP  
 Assay(ex GLC).....>99.5%

**U.V. absorbance:**  
 $\lambda(\text{nm})$       330      350  
 Max abs.      1.00      0.02

Maximum limit of impurities(%)  
 R.A.E..... 0.001  
 Acidity.....0.03 mmol H  
 $\text{H}_2\text{O}$  (by K.F.)..... 0.5

**Suggested Applications:**  
 Specially purified grade filtered through 0.45 micron filter for HPLC.

**Pack Size:** 2.5L



### 585 Acetone

SPECTROSOL

**Description:** clear liquid; characteristic odour.  
 For U.V. spectroscopy.  
 Assay(GLC).....99.5% min.  
 Colour (APHA).....10 max.  
 Density (@ 25°C ).....0.7857g/mL max.

**U.V absorbance**  
 $\lambda(\text{nm})$       330      340      350      400  
 Max abs.      1.00      0.1      0.02      0.01

Maximum limit of impurities(%)  
 R.A.E..... 0.001  
 Sol. in  $\text{H}_2\text{O}$ .....passes test  
 Titratable acid.....0.03 mmol H  
 Titratable base.....0.06 mmol OH  
 Aldehyde (as HCHO)..... 0.002

$\text{CH}_3\text{OH}$ ..... 0.05  
 Propan-2-ol..... 0.05  
 Subs. red.  $\text{KmnO}_4$  (as O)..... 0.0005  
 $\text{H}_2\text{O}$ ..... 0.5

Conforms to ACS

**Pack Size:** 500mL



## Your Window to the Ajax World

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis. The website is also your source for up to date information on compliance and regulatory issues, current promotions and product literature.

### Product and Technical Support

Perhaps you require a Certificate of Analysis for a product you have already purchased? Once more this is readily available by entering the product details and batch number. Material Safety Data Sheets are also available for download from the website which also provides the very latest compliance and regulatory information including useful links to various compliance and regulatory websites. Stay connected and informed with the Ajax Finechem website. Bookmark it today and don't forget to share it with your friends [www.ajaxfinechem.com](http://www.ajaxfinechem.com)

6

## Acetone

UNIVAR

**Description:** clear liquid with a characteristic odour.  
 Assay (by GLC).....99.5% min.  
 Colour (APHA).....10 max.  
 Density (@ 25°C).....0.7857g/mL max.

Maximum limit of impurities(%)

R.A.E. .... 0.001  
 Sol. in H<sub>2</sub>O..... passes test  
 Titratable acid.....0.03 mmol H  
 Titratable base.....0.06 mmol OH  
 Aldehyde (as HCHO)..... 0.002  
 Methanol, Propan-2-ol (each)..... 0.05  
 Fe..... 0.00002  
 Subs. red. KMnO<sub>4</sub>..... passes test  
 H<sub>2</sub>O..... 0.5  
 Al..... 0.00001  
 Mg..... 0.00001  
 Ba..... 0.000005

Cd..... 0.000005  
 Pb..... 0.000005  
 Ca..... 0.00005  
 Zn..... 0.00005  
 Na..... 0.00005  
 K..... 0.00005  
 Cr..... 0.000002  
 Co..... 0.000002  
 Cu..... 0.000002  
 Mn..... 0.000002  
 Ni..... 0.000002  
 Sr..... 0.000002

Conforms to ACS

Pack Size: 500ML,2.5L GL,2.5L PL,20L,200L

7

## Acetone

UNILAB

Relative density (@20°C).....0.790 - 0.793g/mL

Maximum limit of impurities(%)

Residue on evaporation..... 0.005  
 Acidity or alkalinity..... To pass test  
 Related substances..... To pass test  
 Matter insoluble in water..... To pass test

Appearance of solution..... To pass test  
 Water (K.F.)..... 0.3  
 Reducing substances..... To pass test

Conforms to BP

Pack Size: 500ML,2.5L GL,2.5L PL,20L,200L

## Acetonitrile

CAS 75-05-8

Synonyms: Methyl Cyanide

CH<sub>3</sub>CN = 41.05

U.N Number.....1648

ADG Class.....3

Packing Group.....II



2315

## Acetonitrile, 190 Grade

UNICHROM

**Description:** clear liquid with a characteristic ethereal odour, with no odour of amines.

Assay (GLC).....>99.7%

R.I.....1.344

## U.V absorbance

λ(nm)	190	214	254	280
Max abs.	1.00	0.15	0.02	0.01

Maximum limit of impurities(%)

Non-vol.....0.001

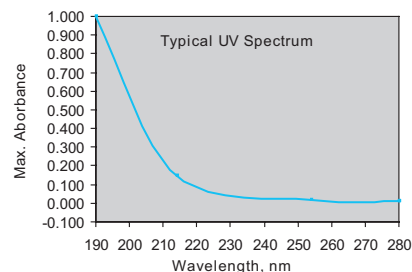
Acidity (as CH<sub>3</sub>COOH)..... 0.005

H<sub>2</sub>O (by K.F.).....0.1

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L GL,4L





**2316 Acetonitrile, 210 Grade**

UNICHROM

**Description:** clear liquid with a characteristic ethereal odour, with no odour of amines.

Assay (GLC).....>99.7%  
 R.I.....1.344

**U.V. Absorbance**

λ(nm)	210	254	280
Max abs.	1.00	0.02	0.01

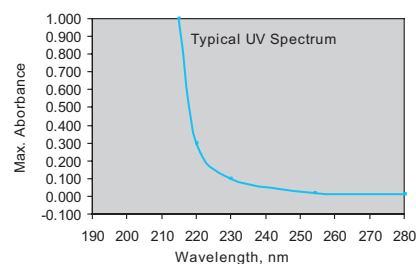
Maximum limit of impurities(%)

Non-vol. ....0.001  
 Acidity (as CH<sub>3</sub>COOH).....0.01  
 H<sub>2</sub>O (by K.F.).....0.1

**Suggested Applications:**

Specially purified grade filtered through 0.45 micron filter for HPLC.

**Pack Size:** 2.5L



**3478 Acetonitrile, UV Anhydrous**

UNICHROM

Assay.....99.9% min.

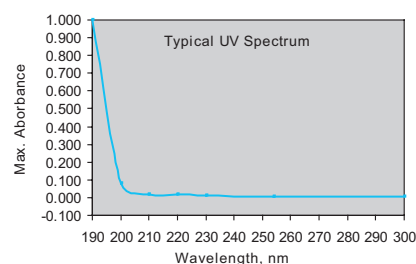
Maximum limit of impurities(%)

Acidity (as acetic acid)..... 0.01  
 N.V..... 0.0002  
 Water..... 0.001

**Max. UV. Absorbance:**

λ(nm)	190	200	210	220	330	254	300
Absorbance	1.00	0.05	0.04	0.02	0.01	0.005	0.005

**Pack Size:** 4L Plastic Coated Safety Bottle.



**3477 Acetonitrile, UV Anhydrous**

UNICHROM

Colour(APHA).....<10  
 Assay(by GLC).....>99.9%  
 R.I.....1.344

Maximum limit of impurities(%)

Non volatile residue..... 0.0002  
 Acidity (as CH<sub>3</sub>COOH)..... 0.01  
 Water (by KF).....0.001

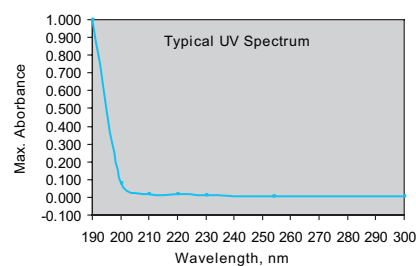
**UV Absorbance:**

Wavelength (nm)	190	200	210	220	230	254	300
Absorbance	1.00	0.05	0.04	0.02	0.01	0.005	0.005

**Suggested Applications:**

A super-dry grade for optimum results with peptide synthesis, sequencing & also for HPLC as an excellent mobile phase.

**Pack Size:** 4L



# HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)

**277 Acetonitrile** SPECTROSOL

Density.....0.782 g/mL  
 M.P. ....-46°C  
 B.P. ....81.6°C  
 Assay (GC).....99.9% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by Coulometry)..... 0.05  
 R.O.E. .... 0.0005  
 FTIR Spectrum. ....To Pass test

**Max. UV. Absorbance:**  
 λ(nm)        200    210        220        230  
 Absorbance   0.05   0.022    0.013    0.009

Pack Size: 500mL, 2.5L GL

**1535 Acetonitrile** UNIVAR

**Description:** clear liquid with a characteristic ethereal odour, with no odour of amines.  
 Assay (GC).....99.5% min.  
 Colour (APHA).....10max

Maximum limit of impurities(%)  
 R.A.E. .... 0.005  
 Titratable acid. .... 8.0 meq/g

Titratable base. .... 0.6 meq/g  
 H<sub>2</sub>O. .... 0.3

Conforms to ACS

Pack Size: 500mL, 2.5L GL, 20L,200L

**710 Acetonitrile** UNILAB

Density about.....0.78g/mL  
 B.R.(95% min.).....80-82°C

Maximum limit of impurities(%)  
 Non-vol. .... 0.02  
 Acidity (as CH<sub>3</sub>COOH)..... 0.1

H<sub>2</sub>O. .... 0.5

Pack Size: 2.5L GL, 20L

**Acetophenone**

CAS 98-86-2  
 Synonyms:Methyl Phenyl Ketone  
 C<sub>6</sub>H<sub>5</sub>COCH<sub>3</sub> = 120.15

**848 Acetophenone** UNILAB

Assay.....98.0% min.  
 Density.....1.030  
 Boiling Point.....202°C

Maximum limit of impurities(%)  
 Acidity (as C<sub>6</sub>H<sub>5</sub>CO<sub>2</sub>H). .... 0.1  
 Residue after evaporation. .... 0.1

Pack size: 500mL

**2-Acetoxybenzoic Acid** (See Acetylsalicylic Acid Page 29 )

**Acetylcellulose** (See Cellulose Acetate Page 131 )

## Acetylacetone

CAS 123-54-6  
 Synonyms: 2,4-Pentanedione  
 $\text{CH}_3\text{COCH}_2\text{COCH}_3 = 100.12$

U.N Number.....2310  
 ADG Class.....3  
 SUB.....6.1  
 Packing Group.....III



### 9 Acetylacetone UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)  
 Acidity (as  $\text{CH}_3\text{COOH}$ )..... 0.2  
 $\text{H}_2\text{O}$ ..... 0.2

Pack Size: 2.5L

## Acetyl Chloride

CAS 75-36-5  
 $\text{CH}_3\text{COCl} = 78.50$

U.N Number.....1717  
 ADG Class.....3  
 SUB.....8  
 Packing Group.....II



### 10 Acetyl Chloride UNIVAR

Description: clear liquid with irritating vapour.  
 Assay.....99.0% min.  
 R.I .....@20°C about 1.388g/mL

Pack size: 100mL

### 1293 Acetyl Chloride UNILAB

Density about.....1.10g/mL  
 Assay.....98.0% min.

Pack Size: 500mL

## Acetyl Choline Chloride

CAS 75-36-5  
 $\text{CH}_3\text{COCl} = 78.50$

### 149 Acetyl Choline Chloride UNIVAR

Assay (ex Cl).....99% min.  
 M.P. ....148 - 152°C

Maximum limit of impurities(%)  
 H.M. (as Pb)..... 0.001  
 As..... 0.0002

Loss on drying @ 150°C..... 0.75  
 Sulphated ash..... 0.1

Pack Size: 25g

## N-Acetyl-DL-Tryptophan 99%

CAS 87-32-1  
 $C_{13}H_{14}N_2O_3 = 246.27$

### 154 N-Acetyl-DL-Tryptophan 99%, For Biochemistry

UNILAB

CAS 87-32-1  
 $C_{13}H_{14}N_2O_3 = 246.27$   
Assay (by acidimetry).....99% min.  
M.P.....206 - 208°C

Maximum limit of impurities(%)  
H.M. (as Pb)..... 0.001  
NH<sub>4</sub>..... 0.001

Pack Size: 25g

## Acetylene Bromide

CAS 506-96-7  
 $C_2H_3BrO = 122.95$

U.N Number.....1716  
SUB.....8  
Packing Group.....II



### 543 Acetylene Bromide For Synthesis

UNILAB

ASSAY.....98% min.  
Density @ 25°C.....1.648 - 1.651

Pack Size: 250mL

## N-Acetyl-L-Cysteine

CAS 616-91-1  
 $C_5H_9NO_3S = 163.2$

### 3142 N-Acetyl-L-Cysteine

UNIVAR

Description: White crystalline powder  
Assay.....99.0% min.

Maximum limit of impurities (%)  
Ca..... 0.0005  
Fe..... 0.0005  
Pb..... 0.001  
R.O.I..... 0.5

Cu..... 0.0005  
Insoluble matter..... 0.1  
Na..... 0.1

Pack size: 100g



## Acetylsalicylic Acid

CAS 50-78-2

 $\text{CH}_3\text{COOC}_6\text{H}_4\text{COOH} = 180.16$ **849**

### Acetylsalicylic Acid

UNILAB

**Description:** colourless crystals or white crystalline powder; odourless or almost odourless.

M.P. about.....143°C

Assay.....99.5-101.0%

Maximum limit of impurities(%)

Appearance of soln.

To pass test

H.M. (as Pb)..... 0.0020

Sulph. ash..... 0.1

Salicylic acid..... 0.05

L.O.D..... 0.5

Related substances..... To pass test

Conforms to BP

Pack Size: 500g

**N-Acetyl-P-Phenylenediamine** (See 4-Aminoacetanilide Page 43 )

**Acetylene Tetrabromide** (See Sym-Tetrabromoethane Page 444 )

**Acid Blue 22** (See Aniline Blue Water Soluble C.I.42755 Page 63 )

**Acid Blue 74** (See Indigo Carmine Page 237 )

**Acid Blue 83** (See Coomassie Brilliant Blue R250 Page 152 )

**Acid Green** (See Light Green (CI 42095) Page 257 )

**Acid Green 1** (See Naphthol Green B (CI 10020) Page 299 )

**Acid Orange 10** (See Orange G (CI 16230) Page 316 )

**Acid Red 27** (See Amaranth Page 42 )

**Acid Red 51** (See Erythrosin B Page 192 )

**Acid Yellow 73** (See Fluorescein Sodium Salt Page 206 )

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.

Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Acridine Orange

CAS 10127-02-3  
 $C_{17}H_{20}ClN_3 \cdot \frac{1}{2}ZnCl_2 = 370.0$

U.N Number.....3143  
SUB.....6.1  
Packing Group.....III



### 3171 Acridine Orange

LABCHEM

Description: brown coloured powder  
Dye content: about 80%  
Absorption maximum 491 – 495 nm (in 50% ethanol)  
L.O.D (110°C) 5.0% min.  
Suitability for electrophoresis: To pass test

Pack size: 5g

## Acriflavin

CAS 8048-52-0  
 $C_{14}H_{14}ClN_3 = 259.7$

### 304 Acriflavin

LABCHEM

Description: Orangish, yellow uniform powder  
pH (1%w/v soln. @ 25°C) 2.5

Pack size: 50g

## Acrylamide

CAS 79-06-1  
 $C_3H_5NO = 71.08$

U.N Number.....2074  
SUB.....6.1  
Packing Group.....III



### 1305 Acrylamide, For Electrophoresis

UNIVAR

Appearance: White crystalline powder  
Assay.....99.9% min.

Maximum limit of impurities (%)

DNases..... None detected  
RNases..... None detected  
Proteases..... None detected  
Ca..... 0.001  
Fe..... 0.005

Cl..... 0.005  
SO<sub>4</sub>..... 0.005  
Cd..... 0.0005  
Phosphatases..... None detected  
Heavy metals (as Pb)..... 0.0005

Pack size: 100g

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)

## Acrylic Acid

CAS 79-10-7  
 $C_3H_4O_2 = 72.06$

U.N Number.....2218  
 ADG Class.....8  
 SUB.....3  
 Packing Group.....II



542

### Acrylic Acid For Synthesis (Stabilized with 200 ppm Hydroquinone Monomethyl Ether)

UNILAB

Assay.....99% min.  
 Density (20°/4°).....1.048 - 1.052  
 R.I. @ 20°.....1.420 - 1.4224  
 Completely miscible with water

Pack Size: 500mL

## Acti-Dione

CAS 66-81-9  
 $C_{15}H_{23}NO_4 = 281.35$

U.N Number.....2811  
 ADG Class.....6.1  
 Packing Group.....I



2434

### Acti-Dione

LABCHEM

Grey-yellow cryst powder.  
 Assay(TLC).....94% min.

Pack Size: 5g

Activated Alumina (See Anti-Bumping Granules Page 67 )

## ADA (N-(2-Acetamido)-2-Iminodiacetic Acid) Biological Buffer

CAS 26239-55-4  
 $C_6H_{10}N_2O_5 = 190.2$

3299

### ADA (N-(2-Acetamido)-2-Iminodiacetic Acid) Biological Buffer

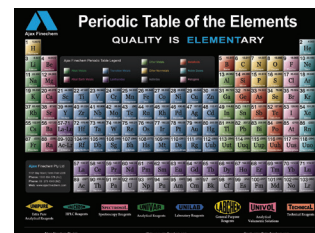
UNIVAR

Description: White powder  
 Assay.....98.0% min.  
 pKa.....6.4 – 6.8

Pack size: 100g, 1KG

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Adenine

CAS 73-24-5  
 $C_5H_5N_5 = 135.13$

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 159 Adenine For Biochemistry 99%(In Microbial Determination Of Niacin) UNILAB

Assay.....99% min.  
M.P. ....300°C max.

Maximum limit of impurities(%)  
H.M. (as Pb)..... 0.001

Pack Size: 5g

## Adenine Sulphate 99%

CAS 321-30-2  
 $(C_5H_5N_5)_2H_2SO_4 = 368.33$

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 3410 Adenine Sulphate 99%(For Desensitization Of Photographic Gelatin) UNILAB

Assay.....99.5% min.  
M.P. ....205 - 215°C

Pack Size: 10g

## Adenosine

CAS 58-61-7  
 $C_{10}H_{13}N_5O_4 = 267.25$

### 519 Adenosine For Biochemistry (Used as a substrate in determination of Adenosine deaminase) UNILAB

Assay.....99% min.  
M.P. 235 – 238°C  
Insoluble with water  
Hardly soluble in organic solvent

Maximum limit of impurities(%)  
H.M. (as Pb)..... 0.001

Pack Size: 5g

# Analytical Reagents



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## Adenosine-5-Monophosphoric Acid Sodium Salt

CAS 4578-31-8  
 $C_{10}H_{12}N_5Na_2O_7P = 391.19$

### 166 Adenosine-5-Monophosphoric Acid Sodium Salt For Biochemistry (A.M.P.) UNILAB

Assay (UV).....	97%
Purity (UV).....	97.5%
Water.....	20 – 23%
UV Absorption ratio .....(0.01N-HCl)	
250/260.....	0.79
280/260.....	0.15

Pack Size: 5g

**Adermine Hydrochloride** (See Pyridoxine Hydrochloride Page 371 )

## Adipic Acid

CAS 124-04-9  
**Synonyms:** Hexanedioic acid  
 $C_6H_{10}O_4 = 146.14$

### 2366 Adipic Acid UNILAB

Assay (by acidimetry).....	99% min.
M.P. ....	148 – 151°C

Pack Size: 500g

**Adipic Acid Chloride** (See Adipoyl Chloride Page 33 )

## Adipoyl Chloride

CAS 111-50-2  
 $(CH_2CH_2COCl)_2 = 183.04$

U.N Number.....1760  
 ADG Class.....8  
 Packing Group.....III



### 2350 Adipoyl Chloride LABCHEM

Density.....	about 1.25g/mL
Assay (ex Cl) .....	97% min.

Pack Size: 25mL

**Adipoyl Dichloride** (See Adipoyl Chloride Page 33 )

## Adonitol

CAS 488-81-3

Synonyms: Adonite, Ribitol

$C_5H_{12}O_5 = 152.15$

### 3166 Adonitol For Biochemistry (Reagent biochemical identification)

UNILAB

Assay.....99% min.  
M.P. ....100 – 105°C  
Suitability for Microbiology Passes test  
Water.....0.5%

Pack Size: 5g

## Adrenaline Bitartrate

CAS 51-42-3

Synonyms: Adrenaline Hydrogen Tartrate

$C_{13}H_{19}NO_9 = 333.30$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....I



### 172 Adrenaline Bitartrate

UNILAB

ASSAY.....99% min.  
M.P. (with decomposition).....150 - 155°C  
pH (1% solution).....2.8 -3.8

Pack Size: 1g

Adrenaline Hydrogen Tartrate (See Adrenaline Bitartrate Page 34 )

## Aesculin

CAS 66778-17-4

$C_{15}H_{16}O_9 + H_2O = 367.31$

### 187 Aesculin

UNILAB

Assay.....98% min.  
M.P. ....215°C

Maximum limit of impurities(%)

Water ..... 6.5 – 8.0

Sulphated ash..... 0.1

Fraxine..... 0.5

H.M. ( as Pb)..... 0.004

Pack Size: 5g

## Agar

CAS 9002-18-0

### 863 Agar, Powder

LABCHEM

Gel strength.....1000g/sq.cm.  
Moisture.....22% max.  
Insol.in boiling water.....2% max.  
Crude Ash.....4% max.

Pack Size: 100g, 500g

## Agarose ME

CAS 9012-36-6

### 6249 Agarose ME, For Electrophoresis

LABCHEM

**Description:** White crystalline powder  
 EEO.....0.15 – 0.2  
 Gel strength (1% gel).....1000g/cm<sup>2</sup> min.  
 Gelling Point (1.5% gel).....34.5 – 37.5°C  
 Melting Point.....85 – 90°C

**Pack size:** 25g

## Ajax Labware Detergent

### 7875 Ajax Labware Detergent

LABCHEM

This powerful detergent, which contains both anionic and cationic surfactants, has been specially developed to tackle the sometimes difficult but important job of thorough cleaning laboratory ware. It is specially formulated for manual cleaning, ultrasonic cleaning, and may be used in washing machines. Contains 5% Potassium Hydroxide. Free of Phosphate, Chlorine, Enzymes, and EDTA. Ajax Labware Detergent is completely biodegradable.

## DL-Alanine

CAS 302-72-7

**Synonyms:** 2-Aminopropionic Acid

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> = 89.09

### 3004 DL-Alanine For Biochemistry

LABCHEM

Assay (HClO<sub>4</sub> titration).....99% min.

Maximum limit of impurities(%)  
 H.M. (as Pb)..... 0.001

**Pack Size:** 25g

## L-Alanine

CAS 56-41-7

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub> = 89.09

### 3002 L-Alanine

UNIVAR

**Description:** White and odourless crystalline powder having a sweetish taste  
 Assay.....99.0% min.

Maximum limit of impurities(%)		
Ca.....	0.001	R.O.I..... 0.05
Fe.....	0.0005	Cl..... 0.005
L.O.D.....	0.05	SO <sub>4</sub> ..... 0.0055
Pb.....	0.0005	Foreign amino acid..... 0.3

**Pack size:** 100g

Alginate (See Sodium Alginate Page 392 )

## Alginic Acid

CAS 9005-32-7

$(C_6H_8O_6)_n$  = Approx. 48000 – 186000

### 170 Alginic Acid (Mixed polymer of mannuronic & glucuronic acid) UNILAB

pH (3% solution in H<sub>2</sub>O).....1.5 – 3.5

Maximum limit of impurities(%)

As..... 0.0001

Fe..... 0.03

H.M. (as Pb)..... 0.004

Loss on drying..... 10

Ash..... 3

Gelation test.....To pass test

Pack Size: 500g

## Alizarin

CAS 130-22-3

$C_{14}H_7O_7Na$  = 342.26

### 2354 Alizarin Red S (CI 58005) LABCHEM

Adsorption and pH indicator.

Pack Size: 25g

Alizarin Sulphonate Sodium (See Alizarin Red S Page 36 )

## Alloxan Monohydrate

CAS 2244-11-3

$C_4H_2N_2O_4 \cdot H_2O$  =160.09

### 192 Alloxan Monohydrate UNILAB

Assay (Ex N).....98.0% min.

M.P. ....About 250°C with decomposition

Store below.....+15°C

Pack Size: 25g

## Aluminium

CAS 7429-90-5

### 875 Aluminium Foil UNIVAR

Al = 26.98

Thickness approx. ....0.1 mm.

Approx dimension: 20 cm x 20 cm x 0.1 mm thick.

Approx.....50 sheets / pack.

Assay.....99% min.

Pack Size: 500g



**3005 Aluminium, Wire** UNIVAR

Al = 26.98

Description: a bright silver-grey metal.

Assay.....99.9% min.

Maximum limit of impurities(%)

Acid insol. matter..... 0.005

N cpds (as N)..... 0.001

Si..... 0.005

Cu..... 0.005

Fe..... 0.008

Mn..... 0.002

Ti..... 0.03

Conforms to ACS

Pack Size: 500g

**Aluminium**

CAS 7429-90-5

U.N Number.....1396

ADG Class.....4

Packing Group.....II



**1657 Aluminium, Fine Powder** TECHNICAL

Al = 26.98

Ave. particle size 40 micrometres

Pack Size: 100g,500g,10kg

**Aluminium 1000ppm Single Element ICP Standard**

U.N Number.....3264

ADG Class.....8

Packing Group.....II



**2620 Aluminium 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Aluminium standard, ready for use.

Al in 6.5% nitric acid.

Traceable to NIST

Pack Size: 100mL

**Aluminium AAS Standard**

U.N Number.....3264

ADG Class.....8

Packing Group.....II



**2605 Aluminium AAS Standard** SPECTROSOL

A 1000 ppm Aluminium standard, ready for use.

Each mL contains 1.00 mg ± 0.005 mg of Al in 6.5% nitric acid

Traceable to NIST

Pack Size: 500mL

## Aluminium Ammonium Sulphate

CAS 7784-26-1  
 $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 453.33$

### 14 Aluminium Ammonium Sulphate

UNIVAR

CAS 7784-26-1  
 $\text{AlNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 453.33$   
**Description:** colourless crystals or crystalline powder.  
 Assay.....99% min.  
 pH (5% soln @ 25°C).....3.0 min.

Maximum limit of impurities(%)

Insol.....	0.005	As.....	0.00005
Cl.....	0.002	Fe.....	0.0005
$\text{NO}_3$ .....	0.001	H.M. (as Pb).....	0.0005
$\text{PO}_4$ .....	0.0025	K.....	0.1
$\text{SiO}_2$ .....	0.002	Na.....	0.005

Pack Size: 500g, 5 kg, 25kg

## Aluminium Chloride Hydrated

CAS 7446-70-0  
 $\text{AlCl}_3 \cdot 6\text{H}_2\text{O} = 241.43$

U.N Number.....3260  
 ADG Class.....8  
 Packing Group.....III



### 879 Aluminium Chloride Hydrated

UNIVAR

Assay.....95.0-102.0%  
 pH (5%).....2.3-3.5

Maximum limit of impurities(%)

$\text{SO}_4$ .....	0.01	K.....	0.01
Fe.....	0.001	Ca.....	0.02
H.M. (as Pb).....	0.001	Mg.....	0.01
$\text{NH}_4$ .....	0.01	Na.....	0.1
As.....	0.0004		

Chemical and physical parameters conform to USP

Pack Size: 500g, 5kg

## Aluminium Hydroxide Gel

CAS 21645-51-2  
 $\text{Al}(\text{OH})_3 + \text{H}_2\text{O} = 78.00$

### 880 Aluminium Hydroxide Gel

UNIVAR

Assay (as  $\text{Al}_2\text{O}_3$ ).....47 – 60%  
 Reaction of aqueous extract pH.....<10

Maximum limit of impurities(%)

R.O.I.....	10 – 18	$\text{NH}_3$ .....	0.05
Cl.....	0.025	Fe.....	0.01
$\text{SO}_4$ .....	0.5	Na.....	0.01

Pack Size: 500g

## Aluminium Hydroxide

CAS 21645-51-2  
Al(OH)<sub>3</sub> = 78.00

### 1692 Aluminium Hydroxide UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

Cl.....	0.002	Fe.....	0.005
SO <sub>4</sub> .....	0.005	H.M. (as Pb).....	0.005

Pack Size: 1kg, 20kg

## Aluminium Nitrate

CAS 7784-27-2  
Al(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O = 375.13

U.N Number.....1438  
ADG Class.....5.1  
Packing Group.....III



### 17 Aluminium Nitrate UNILAB

Assay.....98.0%  
pH (5%).....2.5 - 3.5

Maximum limit of impurities(%)

Ca.....	0.02	K.....	0.05
Mg.....	0.005	H.M.(as Pb).....	0.001
Fe.....	0.005	Cl.....	0.005
Na.....	0.02	SO <sub>4</sub> .....	0.005

Pack Size: 500g, 5kg, 25kg

### 901 Aluminium Nitrate LABCHEM

Assay.....95.0% min.

Maximum limit of impurities(%)

H.M.(as Pb).....	0.005
Cl.....	0.005

Pack Size: 500g

## Aluminium Oxide

CAS 1344-28-1  
Synonyms:Alumina  
Al<sub>2</sub>O<sub>3</sub> = 101.96

### 1736 Aluminium Oxide UNIVAR

Description: white powder.

Assay.....98% min.

Maximum limit of impurities(%)

Alkali (as Na <sub>2</sub> O).....	0.3	Fe.....	0.03
L.O.I. (@1100°C).....	0.5	H.M (as Pb).....	0.005
Cl.....	0.005	SiO <sub>2</sub> .....	0.1
SO <sub>4</sub> .....	0.05		

Pack Size: 500g

**18 Aluminium Oxide Calcined** UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

L.O.I. (@1000°C)..... 2

Fe<sub>2</sub>O<sub>3</sub>..... 0.1

Pack Size: 500g, 5Kg

**1661 Aluminium Oxide B A 2 Basic** LABCHEM

Suitable for chromatography. Basic, Brockman Activity II.

pH(aqueous suspension).....9.0-10.5

L.O.I.....8%

Water soluble matter.....0.5%

Maximum limit of impurities(%)

Cl..... 0.005

SO<sub>4</sub>..... 0.01

Cu..... 0.005

Ni..... 0.005

Fe..... 0.005

Pb..... 0.005

Pack Size: 1kg

**1660 Aluminium Oxide B A 1 Basic** LABCHEM

Suitable for chromatography.

Basic, Brockman activity I.

Pack Size: 1kg

**Aluminium Potassium Sulphate**

CAS 10043-67-1

Synonyms:Potassium Aluminium Sulphate, Potassium Alum

AlK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O = 474.38

**21 Aluminium Potassium Sulphate** UNIVAR

**Description:** colourless crystals or crystalline powder.

Assay.....98.0-102.0%

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.0005

As..... 0.0002

Fe..... 0.001

H.M. (as Pb)..... 0.001

Na..... 0.02

NH<sub>4</sub>..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

**22 Aluminium Potassium Sulphate** UNILAB

Assay.....98.0-102.0%

Maximum limit of impurities(%)

Cl..... 0.01

Fe..... 0.01

H.M. (as Pb)..... 0.01

NH<sub>4</sub>..... 0.05

Pack Size: 500g, 5kg

**2250 Aluminium Potassium Sulphate** LABCHEM

Assay.....98%min

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.01

Pack Size: 1kg,3kg

**Aluminium Silicate** (See Kaolin Acid Washed Page 246 )

**Aluminium Stearate**

CAS 637-12-7  
 $[\text{CH}_3(\text{CH}_2)_{16}\text{COO}]_3\text{Al} = 877.35$

**1295 Aluminium Stearate** UNIVAR

Assay (as  $\text{Al}_2\text{O}_3$ ).....6.5 – 8.9%

M.P. ....120 -130°C

Bulk Density.....20 g/100 ml

Identity (IR Spectrum) To passes test

Maximum limit of impurities(%)

Cl. .... 0.5

H.M. (as Pb)..... 0.01

Fe. .... 0.01

R.O.I. .... .75 – 10.0

Water..... 2

Pack Size: 500g

**Aluminium Sulphate**

CAS 7784-31-8  
 $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O} = 666.45$

**24 Aluminium Sulphate** UNIVAR

**Description:** Colourless, lustrous crystals or crystalline powder.

Assay (anhydrous).....51.0-59.0%

pH (2% @ 20°C).....2.5-4.0

Maximum limit of impurities(%)

Clarity & colour of solution To pass test

As. .... 0.0005

Fe. .... 0.01

H.M. (as Pb)..... 0.004

$\text{NH}_4$ ..... 0.05

Alkaline+Alkaline earth metals..... 0.4

Pack Size: 500g, 5kg

**25 Aluminium Sulphate** UNILAB

**Description:** Colourless, lustrous crystals or crystalline powder.

Assay (anhydrous).....96%min

pH (2% @ 20°C).....3 approx

Maximum limit of impurities(%)

Fe. .... 0.04

H.M. (as Pb).....0.05

Pack Size: 500g, 25kg



**Aluminium Trichloride** (See Aluminium Chloride Page 38 )

## Aluminon (CI 43810)

CAS 569-58-4

$(\text{NH}_4\text{OCOC}_6\text{H}_3(\text{OH}))_2\text{C}:\text{C}_6\text{H}_3(\text{COONH}_4):\text{O} = 473.$

### 882 Aluminon (CI 43810)

UNIVAR

**Description:** brown-red crystalline powder.  
Reagent for aluminium.

Maximum limit of impurities(%)

Sensitivity to aluminium.....To pass test

Pack Size: 10g

## Amaranth (CI 16185)

CAS 915-67-3

Synonyms: Acid red 27

C.I. No. 16185

$\text{C}_{20}\text{H}_{11}\text{N}_2\text{Na}_3\text{O}_{10}\text{S}_3 = 604.48$

### 191 Amaranth (CI 16185)

UNILAB

C.I. No. 16185  
Indicator for iodate and bromate oxidimetry

Pack Size: 25g

## Amberlite IR 120 Standard

CAS 9002-23-7

### 1698 Amberlite IR 120 Standard

LABCHEM

Cation exchange resin. Strongly cationic, polystyrene sulphonic acid resin bead, sodium form.

Pack Size: 500g

### 1706 Amberlite IRA 402 Standard

LABCHEM

Anion exchange resin. A strongly basic unfunctional chloromethylated cross-linked polystyrene resin in bead form, containing aryl trimethyl ammonium groups.

Pack Size: 500g

### 1702 Amberlite MB 1

LABCHEM

A mixture of a strongly acidic nuclear grade cation resin and a strongly basic nuclear grade low chloride anion resin.

Pack Size: 500g

**Aminoacetic Acid** (See Glycine Page 216 )

**Aminobenzene** (See Aniline Page 63 )

**4-Aminobenzenesulphonic Acid** (See Sulphanilic Acid Page 437 )

1-Aminobutane (See N-Butylamine Page 111 )

P-Amino-N,N-Dimethylaniline (See N-N-Dimethyl-P-Phenyl-Enediamine Page 182 )

1-Amino-2-Hydroxy-4-Naphthalenesulphonic Acid (See 1-Amino-2-Naphthol-4-Sulphonic Acid Page 45 )

Amidosulphonic Acid (See Sulphamic Acid Page 437 )

## 2-Amino-2-Methyl-1,3 Propanediol

CAS 115-69-5  
C<sub>4</sub>H<sub>11</sub>NO<sub>2</sub> = 105.14

U.N Number.....3259  
ADG Class.....8  
Packing Group.....II



### 529 2-Amino-2-Methyl-1,3 Propanediol

UNILAB

Assay.....99% min.

Pack Size: 100g, 500g

## 2-Amino-2-Methyl-Propanol

CAS 124-68-5  
C<sub>4</sub>H<sub>11</sub>NO = 89.14

U.N Number.....3259  
ADG Class.....8  
Packing Group.....III



### 272 2-Amino-2-Methyl-Propanol Suitable for Clinical work (buffer substance)

UNILAB

Assay.....95% min.  
F.P. ....18 - 21°C

Pack Size: 500mL

## 4-Aminoacetanilide

CAS 122-80-5  
Synonyms: N-Acetyl-P-Phenylenediamine; N-(4-Aminophenyl)acetamide  
C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O = 150.18

### 188 4-Aminoacetanilide For Synthesis

UNILAB

Assay (NT).....99% min.  
M.P. ....162 - 164°C

Pack Size: 100g

# General Purpose Reagents



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## 4-Aminoantipyrine

CAS 83-07-8

Synonym: 4-Aminophenazone

$C_{11}H_{13}N_3O = 230.24$

### 3008 4-Aminoantipyrine

OP

Assay.....99% Min.  
M.P. ....107 – 109°C

Maximum limit of impurities(%)

L.O.D. .... 0.5  
L.O.I. .... 0.1

Pack Size: 25g

## 4-Aminobenzoic Acid

CAS 150-13-0

$NH_2C_6H_4COOH = 137.14$

### 886 4-Aminobenzoic Acid

UNILAB

Assay.....99% min.  
M.P. ....186-189°C

Store below 4°C (refrigerate)

Pack Size: 250g

4-Aminobutanoic Acid (See 4-Aminobutyric Acid Page 44 )

## 4-Aminobutyric Acid

CAS 56-12-2

Synonyms: Gaba; 4-Aminobutanoic acid

$C_4H_9NO_2 = 103.12$

### 196 4-Aminobutyric Acid For Biochemistry

UNILAB

Assay (HClO<sub>4</sub>-Titration).....>99% min.  
M.P. ....200 – 205°C

Pack Size: 100g

2-Aminoethanol (See Ethanolamine Page 195 )

4-Amino-1-Hydroxybenzene (See 4-Aminophenol Page 45 )

2-Amino-2(Hydroxymethyl)-Propane-1,3-Diol (See TRIS Page 462 )

Aminomethane (See Methylamine Aqueous Soln Page 286 )

DL-2-Amino-4-(Methylmercapto) Butyric Acid (See DL-Methionine Page 285 )

4-Aminophenazone (See 4-Aminoantipyrine Page 44 )

## 1-Amino-2-Naphthol-4-Sulphonic Acid

CAS 116-63-2  
 $\text{NH}_2\text{C}_{10}\text{H}_5(\text{OH})\text{SO}_3\text{H} = 239.25$

### 2378 1-Amino-2-Naphthol-4-Sulphonic Acid

LABCHEM

Sens. to  $\text{PO}_4$ .....1 in 2,900,000.  
 Assay about.....98% min.  
 Darkens on storage.

Maximum limit of impurities(%)  
 $\text{H}_2\text{O}$ .....5  
 Sulph Ash.....0.5

Pack Size: 25g

## 4-Aminophenol

CAS 123-30-8  
 Synonyms: 4-Hydroxyaniline; 4-Amino-1-hydroxybenzene  
 $\text{C}_6\text{H}_7\text{NO} = 109.13$

U.N Number.....2512  
 ADG Class.....6.1  
 Packing Group.....III



### 1298 4-Aminophenol

UNILAB

Assay.....98% Min.  
 M.P. ....185 – 189°C

Pack Size: 100g

## 3-Amimophenol

CAS 591-27-5  
 $\text{C}_6\text{H}_7\text{NO} = 109.13$

U.N Number.....2512  
 ADG Class.....6.1  
 Packing Group.....III



### 190 3-Amimophenol

UNILAB

Assay.....98.0% Min.  
 Melting Point.....120 - 124°C

Pack Size: 100g

## 2-Amimophenol

CAS 95-55-6  
 $\text{C}_6\text{H}_7\text{NO} = 109.13$

U.N Number.....2512  
 ADG Class.....6.1  
 Packing Group.....III



### 1297 2-Amimophenol

UNILAB

Assay.....98.0% Min.  
 Melting Point.....170 - 174°C

Pack Size: 100g

**N-(4-Aminophenyl)Acetamide** (See 4-Aminoacetanilide Page 43 )

**2-Aminopropionic Acid** (See DL-Alanine Page 35 )

## 2-Aminopyridine

CAS 504-29-0  
 $C_5H_6N_2 = 94.12$

U.N Number.....2671  
ADG Class.....6.1  
Packing Group.....II



### 703 2-Aminopyridine UNILAB

Assay.....98.0% Min.  
Melting Point.....54 - 58°C

Pack Size: 100g

**4-Aminotoluene** (See P-Toluidine Page 456 )

**Ammonium Hydroxide** (See Ammonia Page 46 )

## Ammonia Solution, 28%

CAS 1336-21-6  
Synonyms:Ammonium Hydroxide  
 $NH_4OH = 35.05 NH_3 = 17.03$

U.N Number.....2672  
ADG Class.....8  
Packing Group.....III



### 43 Ammonia Solution, 28% UNIVAR

**Description:** colourless liquid with a characteristic pungent odour. Free from suspended matter or sediment. Density about 0.89g/mL

Assay (as  $NH_3$ ).....28.0-30.0% w/w  
Colour (HU).....10 max.

Maximum limit of impurities(%)

R.A.I. .... 0.002  
Carbon dioxide ( $CO_2$ )..... 0.002  
Cl. .... 0.00005  
H.M. (as Pb)..... 0.00005  
 $SO_4$ ..... 0.0002  
 $PO_4$ ..... 0.0002  
Nitrate (as  $NO_3$ )..... 0.0002  
Subs.red.  $KMnO_4$ ..... To pass test  
Al..... 0.00002  
Fe..... 0.00002  
Zn..... 0.00002  
K..... 0.0001  
Ca..... 0.0001

Na..... 0.0005  
Mg..... 0.00001  
Cd..... 0.00001  
Ba..... 0.00001  
Sr..... 0.000002  
Cr..... 0.000002  
Co..... 0.000002  
Mn..... 0.000002  
Mo..... 0.000002  
Ni..... 0.000002  
Pb..... 0.000005  
Cu..... 0.000005

Conforms to ACS

Pack Size: 500mL, 2.5L GL



## Ammonium Acetate

CAS 631-61-8

Synonyms: Acetic Acid Ammonium Salt

CH<sub>3</sub>COONH<sub>4</sub> = 77.08

27

### Ammonium Acetate

UNIVAR

Description: colourless moist crystals.

Assay.....97% min.

pH (5% soln. @ 25°C).....6.7-7.3

Maximum limit of impurities(%)

Water insol matter..... 0.005

R.A.I..... 0.01

Cl..... 0.0005

PO<sub>4</sub>..... 0.0005

Ca..... 0.0005

NO<sub>3</sub>..... 0.001

SO<sub>4</sub>..... 0.001

Cu..... 0.0001

Fe..... 0.0001

Mg..... 0.0001

Pb..... 0.0001

K..... 0.001

Na..... 0.001

HM(as Pb)..... 0.0005

Conforms to ACS

Pack Size: 100g,500g, 5kg, 25kg

28

### Ammonium Acetate

UNILAB

Assay.....96.0% min.

pH (5% Soln. @ 25°C).....6.5 min.

Maximum limit of impurities(%)

Sulph. ash..... 0.035

Cl..... 0.005

SO<sub>4</sub>..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg, 25kg

## Ammonium Adipate

CAS 3385-41-9

C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub> =180.14

447

### Ammonium Adipate

UNIVAR

Assay.....99.0% min.

pH.....6.5 – 7.5

Solubility (10% Aq. Soln).....Clear & Colourless

Maximum limit of impurities(%)

Cl..... 0.0004

SO<sub>4</sub>..... 0.0002

H<sub>2</sub>O..... 0.1

Pack Size: 500g

**Ammonium Aluminium Sulphate** (See Aluminium Ammonium Sulphate Page 38 )

**Ammonium Alum** (See Aluminium Ammonium Sulphate Page 38 )

**Ammonium Aurine Tricarboxylate** (See Aluminon Page 42 )

## Ammonium Benzoate

CAS 1863-63-4  
C<sub>7</sub>H<sub>9</sub>NO<sub>2</sub> = 139.15g/mol

### 3009 Ammonium Benzoate

UNILAB

Assay (acidimetry) .....98.0% min.  
pH (10% in water).....6.8

Maximum limit of impurities(%)  
H.M. (as Pb)..... 0.001  
Impurities Oxidizables. ....To passes test  
(as Cinnamic acid)

Pack Size: 500g

**Ammonium Bicarbonate** (See Ammonium Hydrogen Carbonate Page 53 )

**Ammonium Bifluoride** (See Ammonium Hydrogen Difluoride Page 53 )

## Ammonium Bromide

CAS 12124-97-9  
H<sub>4</sub>BrN = 97.94

### 887 Ammonium Bromide

UNIVAR

**Description:** White odourless crystals

Assay.....99.0% min.

Maximum limit of impurities (%)  
H.M. (as Pb)..... 0.005  
Cl..... 0.5

SO<sub>4</sub>..... 0.05

Pack size: 500g

## Ammonium Carbonate

CAS 506-87-6  
NH<sub>4</sub>HCO<sub>3</sub> + NH<sub>2</sub>COONH<sub>4</sub>

### 29 Ammonium Carbonate

UNIVAR

**Description:** white translucent lumps with strong odour of ammonia.

Assay (as NH<sub>3</sub>).....30.0% min.

Maximum limit of impurities(%)  
Insol. .... 0.005  
Non-vol. .... 0.01  
Cl..... 0.0001  
S cpds (as SO<sub>4</sub>)..... 0.0002  
Fe..... 0.0005

H.M. (as Pb)..... 0.0005  
R.O.I.(as SO<sub>4</sub>)..... 0.005  
As..... 0.0001  
Zn..... 0.0001  
Cu..... 0.0001

Conforms to ACS

Pack Size: 500g, 25kg

30

**Ammonium Carbonate**

UNILAB

Assay (as NH<sub>3</sub>).....30% min.

Maximum limit of impurities(%)

Non-vol. ....	0.02
Cl. ....	0.002
S cpds (as SO <sub>4</sub> ).....	0.002
Fe. ....	0.02

Pack Size: 500g, 25kg

**Ammonium Cerium (IV) Nitrate**

CAS 16774-21-3

Synonyms: Ammonium Hexanitratecerate (IV), Ammonium Ceric Nitrate  
(NH<sub>4</sub>)<sub>2</sub>Ce(NO<sub>3</sub>)<sub>6</sub> = 548.23

U.N Number.....1477

ADG Class.....5.1

Packing Group.....II



889

**Ammonium Cerium (IV) Nitrate**

UNIVAR

Description: orange-yellow crystalline powder.

Assay 98.5% min.

Maximum limit of impurities(%)

Insol. (in dil.H <sub>2</sub> SO <sub>4</sub> ).....	0.05	PO <sub>4</sub> .....	0.02
Cl. ....	0.01	Fe.....	0.005

Conforms to ACS

Pack Size: 100g, 500g

**Ammonium Cerium (IV) Sulphate**

CAS 10378-47-9

(NH<sub>4</sub>)<sub>4</sub>Ce(SO<sub>4</sub>)<sub>4</sub>.2H<sub>2</sub>O = 632.56

1180

**Ammonium Cerium (IV) Sulphate**

TECHNICAL

Pack Size: 500g

**Ammonium Ceric Nitrate** (See Ammonium Cerium (IV) Nitrate Page 49 )

**Ammonium Chloride**

CAS 12125-02-9

NH<sub>4</sub>Cl = 53.49

31

**Ammonium Chloride**

UNIVAR

Description: white crystalline powder.

Assay.....99.5% min.

pH (5% soln. @ 25°C).....4.5-5.5

Maximum limit of impurities(%)

Insol. ....	0.005	K. ....	0.005
R.A.I. ....	0.01	Na. ....	0.005
PO <sub>4</sub> .....	0.0002	Pb. ....	0.0002
SO <sub>4</sub> .....	0.002	Mg.....	0.0002
Ca. ....	0.001	As. ....	0.0003
Fe.....	0.0001	L.O.D.....	0.5
Cu. ....	0.0001	HM (as Pb).....	0.0005

Conforms to ACS

Pack Size: 500g, 1kg, 2kg, 5kg, 25kg

32

**Ammonium Chloride**

UNILAB

**Description:** Colourless crystals or white, crystalline powder; odourless.

Assay(after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity &amp; colour of soln.....To pass test

Sulph. ash..... 0.1

L.O.D.@105 Deg.C..... 1.0

Acidity or alkalinity..... 0.5

Br &amp; I..... To pass test

SO<sub>4</sub>..... 0.0150

Ca..... 0.020

Fe..... 0.0020

H.M. (as Pb)..... 0.0010

Chemical &amp; physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

902

**Ammonium Chloride**

LABCHEM

Assay (Dry basis).....98.0% min.

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.05

H.M. (as Pb)..... 0.01

Pack Size: 500g, 25KG

**tri-Ammonium Citrate**

CAS 3458-72-8

(NH<sub>4</sub>)<sub>3</sub>C<sub>6</sub>H<sub>5</sub>O<sub>7</sub> = 243.22

890

**tri-Ammonium Citrate**

UNIVAR

**Description:** colourless crystals.

Assay.....98.5 - 101.0%

pH (5% soln.).....6.0-7.5

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.001

Oxalate (C<sub>2</sub>O<sub>4</sub>)..... 0.01SO<sub>4</sub>..... 0.005

Cu..... 0.00005

Fe..... 0.0005

K..... 0.003

Na..... 0.004

Pb..... 0.0005

Subs. Carb. By hot Sulphuric Acid.....To pass test

Red. subs.....To pass test

Pack Size: 500g

850

**tri-Ammonium Citrate**

UNILAB

Assay.....98.0% min.

pH (5% soln.).....6.0-7.5

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Cl..... 0.01

SO<sub>4</sub>..... 0.01

Pack Size: 500g

**Ammonium Citrate Dibasic** (See Di-Ammonium Hydrogen Citrate Page 53 )

## Ammonium Dichromate

CAS 7789-09-5  
(NH<sub>4</sub>)<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> = 252.07

U.N Number.....1439  
ADG Class.....5.1  
Packing Group.....II



34

### Ammonium Dichromate

UNILAB

Assay.....97% min.  
L.O.D. @ 105°C.....3%

Maximum limit of impurities(%)

Cl.....	0.005	Fe.....	0.005
SO <sub>4</sub> .....	0.02	Na.....	0.01

Pack Size: 500g, 25kg

## Ammonium Dihydrogen Orthophosphate

CAS 7722-76-1  
Synonyms: Ammonium Phosphate Monobasic  
NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub> = 115.03

35

### Ammonium Dihydrogen Orthophosphate

UNIVAR

**Description:** colourless crystals or crystalline powder.

Assay.....98.0 min.  
pH (5% soln. @ 25°C).....3.8-4.4

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.001
Ca.....	0.001	H.M. (as Pb).....	0.0005
Cl.....	0.0005	K.....	0.005
NO <sub>3</sub> .....	0.001	Mg.....	0.0005
S cpds (as SO <sub>4</sub> ).....	0.005	Na.....	0.005
As.....	0.00005		

Chemical and physical parameters conform to FCC

Conforms to ACS

Pack Size: 500g

36

### Ammonium Dihydrogen Orthophosphate

UNILAB

pH(5% soln.) about 4.0  
Assay 98.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	Fe.....	0.002
S cpds (as SO <sub>4</sub> ).....	0.01	H.M. (as Pb).....	0.002
As.....	0.0005		

Pack Size: 500g

**Ammonium Ferric Citrate** (See Ammonium Iron (III) Citrate Green Page 55 )

**Ammonium Ferric Sulphate** (See Ammonium Iron (III) Sulphate Page 56 )

**Ammonium Ferrous Sulphate** (See Ammonium Iron (II) Sulphate Page 55 )



## Ammonium Fluoride

CAS 12125-01-8  
 $\text{NH}_4\text{F} = 37.04$

U.N Number.....2505  
 ADG Class.....6.1  
 Packing Group.....III



### 851 Ammonium Fluoride UNIVAR

Assay.....98.0% min.

Maximum limit of impurities (%)

Ammonium Hydrogen Difluoride ( $\text{NH}_4\text{HF}_2$ ).....	1	Na.....	0.002
Water insoluble matter.....	0.005	Pb.....	0.0005
R.O.I. (as $\text{SO}_4$ ).....	0.005	Zn.....	0.0005
Cd.....	0.0005	H.M. (as Pb).....	0.0005
Cu.....	0.0005	Cl.....	0.0005
Fe.....	0.0005	Hexafluorosilicate (as $\text{SiF}_6$ ).....	0.1
K.....	0.002	$\text{SO}_4$ .....	0.005

Conforms to ACS

Pack size: 500g, 25kg

### 894 Ammonium Fluoride UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

Fe.....	0.005
H.M. (as Pb).....	0.001
$\text{SO}_4$ .....	0.01

Pack size: 500g

## Ammonium Formate

CAS 540-69-2  
 $\text{HCOONH}_4 = 63.06$

### 852 Ammonium Formate UNIVAR

**Description:** colourless, deliquescent crystals.

Assay.....97.0% min.  
 pH (5% soln.).....6.0 - 7.0

Maximum limit of impurities(%)

Insol.....	0.001	Cu.....	0.0001
Non-vol.....	0.01	Fe.....	0.0005
Cl.....	0.001	Pb.....	0.0001
$\text{SO}_4$ .....	0.005		

Pack Size: 500g

**Ammonium Hexanitratecerate (IV)** (See Ammonium Cerium (IV) Nitrate Page 49 )

## Ammonium Hydrogen Carbonate

CAS 1066-33-7

Synonyms: Ammonium Bicarbonate

 $\text{NH}_4\text{HCO}_3 = 79.06$ 

603

### Ammonium Hydrogen Carbonate

UNIVAR

**Description:** white crystalline powder with a slight ammoniacal odour.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.01

Cl..... 0.005

Mg..... 0.01

SO<sub>4</sub>..... 0.007

As..... 0.0002

Ca..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.001

Sulphide..... To pass test

Tarry matter..... To pass test

Pack Size: 1kg, 25kg

897

### Ammonium Hydrogen Carbonate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

SO<sub>4</sub>..... 0.01

Fe..... 0.004

H.M. (as Pb)..... 0.0005

Pack Size: 500g, 5kg, 25kg

## di-Ammonium Hydrogen Citrate

CAS 3012-65-5

 $(\text{NH}_4)_2\text{HC}_6\text{H}_5\text{O}_7 = 226.19$ 

1301

### di-Ammonium Hydrogen Citrate

UNILAB

Assay.....98% min.

pH (5% soln. @ 20°C).....4.5-5.5

Maximum limit of impurities(%)

Cl..... 0.005

SO<sub>4</sub>..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg

## Ammonium Hydrogen Difluoride

CAS 1341-49-7

Synonyms: Ammonium Bifluoride

 $\text{NH}_4\text{HF}_2 = 57.0$ 

U.N Number.....1727

ADG Class.....8

Packing Group.....II



853

### Ammonium Hydrogen Difluoride

UNILAB

**Description:** colourless, deliquescent crystals.

Assay.....95% min.

Maximum limit of impurities(%)

RAI..... 0.2

Cl..... 0.1

SO<sub>4</sub>..... 0.1

Fe..... 0.05

H.M. (as Pb)..... 0.05

Pack Size: 500g, 5kg, 25kg

## Di-Ammonium Hydrogen Orthophosphate

CAS 7783-28-0

Synonyms: Ammonium Phosphate Dibasic

$(\text{NH}_4)_2\text{HPO}_4 = 132.06$

### 41 Di-Ammonium Hydrogen Orthophosphate

UNIVAR

**Description:** colourless crystals or crystalline powder.

Assay.....98.0% min.

pH (5% soln. @ 25°C).....7.7 – 8.1

Maximum limit of impurities(%)

Insol. .... 0.005

Ca. .... 0.001

Cl. .... 0.001

$\text{NO}_3$ . .... 0.003

S cpds (as  $\text{SO}_4$ ). .... 0.01

As. .... 0.0003

Fe. .... 0.001

H.M. (as Pb). .... 0.001

K. .... 0.005

Mg. .... 0.0005

Na. .... 0.005

F. .... 0.001

Chemical and physical parameters conform to FCC

Conforms to ACS

Pack Size: 500g

### 42 Di-Ammonium Hydrogen Orthophosphate

UNILAB

pH(5% soln. @25°C).....about 8.0

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl. .... 0.005

S cpds (as  $\text{SO}_4$ ). .... 0.02

Fe. .... 0.002

H.M. (as Pb). .... 0.002

Pack Size: 500g, 5kg

## Ammonium Iodide

CAS 12027-06-4

$\text{NH}_4\text{I} = 144.94$

### 193 Ammonium Iodide

UNIVAR

Assay.....99.5% min.

pH (5% Solution).....4.5 – 6.5

Maximum limit of impurities(%)

Cl & Br (as Cl). .... 0.005

$\text{SO}_4$ . .... 0.002

$\text{IO}_3$ . .... 0.0005

$\text{PO}_4$ . .... 0.001

$\text{SiO}_2$ . .... 0.0005

Pb. .... 0.0001

Cu. .... 0.0001

Fe. .... 0.0002

Ca. .... 0.001

Ba. .... 0.002

L.O.D. (@ 105°C). .... 0.05

R.O.I. (as  $\text{SO}_4$ ). .... 0.02

Pack Size: 500g

900

**Ammonium Iodide**

UNILAB

Assay (after drying).....99.0% min.

Maximum limit of impurities(%)

R.A.I. .... 0.05  
 SO<sub>4</sub>..... 0.01

Ba. .... 0.002  
 Pb. .... 0.001

Pack Size: 100g, 500g, 5kg

**Ammonium Iron(III) Citrate Green**

CAS 1185-57-5

Synonyms:Ammonium Ferric Citrate

892

**Ammonium Iron(III) Citrate Green**

UNILAB

Description: Greenish -yellow powder.

Assay (as Fe).....14.0 - 16.0%

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.4  
 As..... 0.0004

Pb. .... 0.003  
 Cl. .... 0.02

Pack Size: 500g, 5kg

1586

**Ammonium Iron(III) Citrate, Brown**

TECHNICAL

Assay(as Fe).....20.5 - 22.5%

Pack Size: 500g, 5kg

**Ammonium Iron(II) Sulphate**

CAS 7783-85-9

Synonyms:Ammonium Ferrous Sulphate

(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>.FeSO.6H<sub>2</sub>O<sub>4</sub> = 392.13

39

**Ammonium Iron(II) Sulphate**

UNIVAR

Description: pale green-blue crystals or crystalline powder.

Assay.....99% min.

pH (5% solution).....3 - 5

Maximum limit of impurities(%)

Ca. .... 0.002  
 PO<sub>4</sub>..... 0.002  
 Cu..... 0.002  
 Na..... 0.01  
 Mn..... 0.05  
 Zn..... 0.003

K..... 0.01  
 Pb..... 0.001  
 Fe(III)..... 0.02  
 Mg..... 0.01  
 Cl..... 0.001

Pack Size: 500g, 5kg

40

**Ammonium Iron (II) Sulphate**

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cu..... 0.005  
 Fe(III)..... 0.01  
 Zn..... 0.02

Mg..... 0.02  
 Na..... 0.01  
 Ca..... 0.02

Pack Size: 500g

## Ammonium Iron(III) Sulphate

CAS 7783-83-7

Synonyms: Ammonium Ferric Sulphate

$\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 482.18$

### 37 Ammonium Iron(III) Sulphate

UNIVAR

**Description:** pale violet crystals; may turn brown due to hydrolysis during storage.

Assay.....98.5 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.01

Cl..... 0.001

$\text{NO}_3$ ..... 0.01

Fe(II)..... 0.001

Zn..... 0.003

Cu..... 0.002

Subs. not ppt. by  $\text{NH}_4\text{OH}$ ..... 0.05

Ca..... 0.01

K..... 0.005

Mg..... 0.001

Mn..... 0.005

Na..... 0.01

Pb..... 0.005

Conforms to ACS

Store below 25°C, in a dry place

Pack Size: 500g, 25kg

### 38 Ammonium Iron(III) Sulphate

UNILAB

**Description:** pale violet crystals; may turn brown due to hydrolysis during storage.

Assay.....98.5 min.

Maximum limit of impurities(%)

Fe(II)..... 0.01

Subs. not ppt. by  $\text{NH}_4\text{OH}$ ..... 0.2

Store below 25°C, in a dry place

Pack Size: 500g, 5Kg

## Ammonium Metavanadate

CAS 7803-55-6

$\text{NH}_4\text{VO}_3 = 116.98$

U.N Number.....2859

ADG Class.....6.1

Packing Group.....II



### 45 Ammonium Metavanadate

UNIVAR

**Description:** off-white to pale yellow powder.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insoluble matter in  $\text{NH}_4\text{OH}$ ..... 0.01

Cl..... 0.005

$\text{SO}_4$ ..... 0.01

$\text{PO}_4$ ..... 0.005

$\text{CO}_3$ ..... 0.3

Cu..... 0.002

Fe..... 0.002

Ni..... 0.002

Pb..... 0.002

Pack Size: 100g, 500g

### 903 Ammonium Metavanadate

UNILAB

Assay.....98.0% min.

Pack Size: 100g, 500g, 5kg

## Ammonium Molybdate

CAS 12054-85-2

Synonyms: Ammonium Heptamolybdate

$(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}$  = 1235.86

46

### Ammonium Molybdate, powder

UNIVAR

Description: white crystals, at times with a pale green tint.

Assay (as  $\text{MoO}_3$ ).....81.0-83.0%

Maximum limit of impurities(%)

Insol. ....	0.005	$\text{SO}_4$ .....	0.02
$\text{AsO}_4, \text{PO}_4$ & $\text{SiO}_2$ (as $\text{SiO}_2$ ).....	0.001	H.M. (as Pb).....	0.001
Cl. ....	0.002	Mg.....	0.005
$\text{NO}_3$ .....	.To pass test	K.....	0.01
$\text{PO}_4$ .....	0.0005	Na.....	0.01

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

## Ammonium Nickel Sulphate

CAS 7785-20-8

Synonyms: di-ammonium Nickel (II) Sulphate 6 Hydrate; Nickel Ammonium Sulphate

$(\text{NH}_4)_2\text{SO}_4\cdot \text{NiSO}_4\cdot 6\text{H}_2\text{O}$  =394.99

904

### Ammonium Nickel Sulphate

UNIVAR

Assay.....99.0% min.

Reaction .....Not less than pH 4.0

Maximum limit of impurities(%)

Insoluble matter.....	0.003	Fe.....	0.001
Cl.....	0.001	Pb.....	0.001
Cd.....	0.001	K.....	0.005
Ca.....	0.005	Na.....	0.005
Co.....	0.0005	Zn.....	0.002
Cu.....	0.002		

Pack Size: 500g

905

### Ammonium Nickel Sulphate

UNILAB

Assay.....98.0%min.

pH (5% @ 20°C).....4-6

Maximum limit of impurities(%)

Cl.....	0.01	Zn.....	0.005
Co.....	0.1	Fe.....	0.001

Pack Size: 500g

Di-Ammonium Nickel (II) Sulphate 6 Hydrate (See Ammonium Nickel Sulphate Page 57 )



## Ammonium Oxalate

CAS 6009-70-7  
(COONH<sub>4</sub>)<sub>2</sub>.H<sub>2</sub>O = 142.11

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 51 Ammonium Oxalate

UNIVAR

Description: colourless crystals.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol.....0.005

R.A.I.....0.02

Cl.....0.002

SO<sub>4</sub>.....0.002

Fe.....0.0002

H.M. (as Pb).....0.0005

Conforms to ACS

Pack Size: 500g, 5kg

### 52 Ammonium Oxalate

UNILAB

pH(5% soln.).....about 6.7

Assay.....99.0% min.

Maximum limit of impurities(%)

Sulph. ash.....0.05

Cl.....0.005

SO<sub>4</sub>.....0.01

Fe.....0.002

H.M. (as Pb).....0.001

Pack Size: 500g

## Ammonium Perchlorate

CAS 7790-98-9  
NH<sub>4</sub>ClO<sub>4</sub> = 117.49

U.N Number.....1442  
ADG Class.....5.1  
Packing Group.....II



### 854 Ammonium Perchlorate

UNILAB

Assay.....98.5% min.

pH (5%).....4.0-6.0

Maximum limit of impurities(%)

Cl & ClO<sub>3</sub>.....0.003

H.M. (as Pb).....0.0005

Fe.....0.0005

SO<sub>4</sub>.....0.001

Pack Size: 500g,5kg

Ammonium Peroxodisulphate (See Ammonium Persulphate Page 59 )

Ammonium Perpurate (See Murexide Page 298 )

## Ammonium Persulphate

CAS 7727-54-0

Synonyms: Ammonium Peroxodisulphate

 $(\text{NH}_4)_2\text{S}_2\text{O}_8 = 228.19$ 

U.N Number.....1444

ADG Class.....5.1

Packing Group.....III



53

### Ammonium Persulphate

UNIVAR

**Description:** white powder, slowly decomposes on storage with a decrease in assay and an increase in acidity.

Assay.....98.0% min.

Maximum limit of impurities(%)

Insol. .... 0.005

R.A.I. .... 0.05

Titratable free acid. .... 0.04 meg/g

Cl & ClO<sub>3</sub> (as Cl)..... 0.001

Fe..... 0.001

H.M. (as Pb)..... 0.005

Mn..... 0.00005

Conforms to ACS

Pack Size: 500g

54

### Ammonium Persulphate

UNILAB

**Description:** white powder, slowly decomposes on storage with a decrease in assay and an increase in acidity.

Assay.....98.0% min.

Maximum limit of impurities(%)

Sulph. ash. .... 0.1

Cl..... 0.005

Fe..... 0.003

Mn..... 0.0002

Pack Size: 500g, 5kg, 25kg

**Ammonium Phosphate Dibasic** (See di-Ammonium Hydrogen Orthophosphate Page 54 )

**Ammonium Phosphate Monobasic** (See Ammonium Dihydrogen Ortho-Phosphate Page 51 )

## Ammonium Pyrrolidine Dithiocarbamate

CAS 5108-96-3

 $\text{C}_4\text{H}_8\text{NCSSNH}_4 = 164.29$ 

844

### Ammonium Pyrrolidine Dithiocarbamate

LABCHEM

Reagent for Copper, Lead &amp; many other metals.

Store below 4°C

Pack Size: 10g

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## Ammonium Sulphamate

CAS 7773-06-0  
 $H_6N_2O_3S = 114.13$

### 1303 Ammonium Sulphamate

UNIVAR

**Description:** colourless to white hygroscopic crystals  
Assay.....99.0% min.

Maximum limit of impurities(%)

Mg.....	0.0005	Mn.....	0.0005
Ca.....	0.001	Cd.....	0.0005
Fe.....	0.0005	Cu.....	0.0005
Cl.....	0.001	SO <sub>4</sub> .....	0.2

Pack size: 500g

## Ammonium Sulphate

CAS 7783-20-2  
 $(NH_4)_2SO_4 = 132.13$

### 56 Ammonium Sulphate

UNIVAR

**Description:** white crystalline powder.  
Assay.....99.0% min.  
pH (5% soln. @ 25°C).....5.0-6.0

Maximum limit of impurities(%)

R.A.I.....	0.005	Na.....	0.005
Cl.....	0.0005	Pb.....	0.0005
H.M.(as Pb).....	0.0005	Mg.....	0.002
NO <sub>3</sub> .....	0.001	Se.....	0.003
Ca.....	0.002	Cu.....	0.0005
PO <sub>4</sub> .....	0.0005	Fe.....	0.0005
As.....	0.00002	Insol.....	0.005
K.....	0.005		

Chemical and physical parameters conform to FCC

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

### 57 Ammonium Sulphate

UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

Sulph. ash.....	0.1	Fe.....	0.001
Cl.....	0.01	H.M. (as Pb).....	0.001

Pack Size: 500g, 5kg, 25kg

**Ammonium Sulphocyanide** (See Ammonium Thiocyanate Page 61 )

## Ammonium (+) Tartrate

CAS 3164-29-2  
(CHOHCOONH<sub>4</sub>)<sub>2</sub> = 184.15

### 855 Ammonium (+) Tartrate UNIVAR

**Description:** colourless crystals or crystalline powder.  
Assay.....99% min.  
pH (5% soln.).....6.0-7.0

Maximum limit of impurities(%)		
Heavy metals(as Pb).....	0.002	SO <sub>4</sub> ..... 0.01
Cl.....	0.002	Fe..... 0.002

Pack Size: 500g

## Ammonium Thiocyanate

CAS 1762-95-4  
Synonyms:Ammonium Sulphocyanide  
NH<sub>4</sub>SCN = 76.12

### 58 Ammonium Thiocyanate UNIVAR

**Description:** colourless or white deliquescent crystals.  
Assay.....98.0% min.  
pH (5% soln. @ 25°C ).....4.5-6.0

Maximum limit of impurities(%)		
Insol.....	0.005	SO <sub>4</sub> ..... 0.005
R.A.I.....	0.1	Fe..... 0.0003
Iodine consuming subs. (as I).....	0.004 meq/g	H.M. (as Pb)..... 0.0005
Cl.....	0.005	

Pack Size: 500g, 5kg

### 59 Ammonium Thiocyanate UNILAB

Maximum limit of impurities(%)	
Sulph. ash.....	0.2
Cl.....	0.01

Pack Size: 500g

### 1398 Ammonium Thiocyanate 0.1mol Concentrate, Ampoule OP

**Description:** plastic ampoule containing clear colourless liquid  
0.1 mole (7.612g NH<sub>4</sub>SCN) to prepare 1L of 0.1N solution  
Titer.....0.998 – 1.002

Pack size: Ampoule

## Ammonium Thiosulphate

CAS 7783-18-8  
(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>3</sub> =148.20

### 1691 Ammonium Thiosulphate UNILAB

Assay (Iodometric).....99% min.  
M.P.....105°C

Pack Size: 500g

## iso-Amyl Acetate

CAS 123-92-2  
 $\text{CH}_3\text{COOC}_5\text{H}_{11} = 130.19$

### 61 iso-Amyl Acetate UNIVAR

**Description:** clear liquid with a strong, characteristic odour.  
Assay.....98.0% min.

Maximum limit of impurities (%)		
Non-vol.....	0.002	
Acidity (as $\text{CH}_3\text{COOH}$ ).....	0.01	$\text{H}_2\text{O}$ ..... 0.2

Pack Size: 500mL, 2.5L, 20L

## iso-amyl-Alcohol

CAS 123-51-3  
 $\text{C}_5\text{H}_{11}\text{OH} = 88.15$

U.N Number.....1105  
ADG Class.....3  
Packing Group.....III



### 64 iso-amyl-Alcohol UNIVAR

**Description:** clear liquid with a strong characteristic odour  
Assay (GLC).....98.5% min.  
Density about.....0.812g/L  
R.I. ....about 1.408

Maximum limit of impurities(%)		
R.A.E.....	0.003	
Titrate acid.....	0.2 mmol H	Carbonyl (as HCHO)..... 0.1
Acids & esters (as amyl acetate).....	0.2	Water..... 0.05

Conforms to ACS

Pack size: 500mL, 2.5L, 20L

**N-Amyl Alcohol** (See Pentan-1-ol Page 322 )

**Tert-Amyl Alcohol** (See 2-Methylbutan-2-ol Page 288 )

**Amylcarbinol** (See Hexan-1-ol Page 225 )

**Amylene Hydrate** (See 2-Methylbutan-2-ol Page 288 )

## trans-Anethole

CAS 4180-23-8  
**Synonyms:** 4-propenylanisole  
 $\text{C}_{10}\text{H}_{12}\text{O} = 148.20$

### 541 trans-Anethole For Synthesis UNIVAR

Assay (GC).....99% min.  
Density @ 20°C.....0.987 -0.989

Pack Size: 500mL

## Aniline

CAS 62-53-3

Synonyms: Aminobenzene

$C_6H_5NH_2 = 93.13$

U.N Number.....1547

ADG Class.....6.1

Packing Group.....II



69

### Aniline

UNIVAR

**Description:** clear, oily liquid with a characteristic odour. It darkens to a reddish- brown colour during storage.

Assay.....99.0% min.

Colour (APHA).....250 max.

Maximum limit of impurities(%)

R.A.I. .... 0.005

$C_6H_5Cl$ ..... 0.01

$C_6H_5NO_2$ ..... 0.001

Hydrocarbons..... passes test

Conforms to ACS

Pack Size: 500mL, 2.5L

70

### Aniline

UNIVAR

Density about.....1.02g/mL

Assay.....98.0% min.

Maximum limit of impurities(%)

R.A.I. .... 0.02

$C_6H_5NO_2$ ..... 0.02

Pack Size: 500mL, 20L

## Aniline Blue

CAS 8004-91-9

Synonym: Solvent Blue 3

$C_{32}H_{28}ClN_3 = 490.5$

3175

### Aniline Blue Spirit Soluble for microscopy, C.I. 42775

LABCHEM

Absorption (alcohol).....581nm max.

Pack Size: 25g

## Aniline Blue

CAS 28631-66-5

Synonym: Acid blue 22

$C_{32}H_{25}N_3Na_2O_9S_3 = 737.73$

3176

### Aniline Blue Water Soluble C.I. 42755 (China Blue)

LABCHEM

Used with Fuchsin acid as Mallory's connective tissue

Stain visualizes chromosomes and cellulose walls in plants.

Absorption (1M alcohol).....595 – 610nm max.

pH.....9.4 – 14.0

Pack Size: 25g



## Aniline Hydrochloride

CAS 142-04-1  
 $C_6H_7N \cdot HCl = 129.60$

U.N Number.....1548  
ADG Class.....6.1  
Packing Group.....III



### 657 Aniline Hydrochloride For Synthesis

UNILAB

Assay.....99% min.  
M.P. ....197 -202°C

Pack Size: 250g

## Aniline Sulphate

CAS 542-16-5  
 $C_{12}H_{14}N_2 \cdot H_2SO_4 = 284.33$

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 132 Aniline Sulphate

UNILAB

Assay.....98% min.  
Sulphated ash.....0.1%

Pack Size: 250g

## p-Anisaldehyde

CAS 123-11-5  
Synonyms: 4-methoxybenzaldehyde  
 $C_8H_8O_2 = 136.15$

### 604 p-Anisaldehyde

UNILAB

Assay.....98% min.

Pack Size: 250mL

## p-Anisic Acid

CAS 100-09-4  
Synonyms: 4-Methoxybenzoic acid  
 $C_8H_8O_3 = 152.15$

### 71 p-Anisic Acid For Synthesis

UNILAB

Assay.....98% min.  
M.P. ....182 -185°C

Pack Size: 100g

**p-Anisidine**

CAS 104-94-9

Synonyms: 4-Methoxyaniline; 4-Methoxybenzeneamine  
C<sub>7</sub>H<sub>9</sub>NO = 123.15

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III

**1308 p-Anisidine**

UNILAB

Assay.....98% min.

M.P. ....56 – 59°C

Pack Size: 250g

**m-Anisidine**

CAS 536-90-3

Synonyms: 3-Methoxyaniline  
C<sub>7</sub>H<sub>9</sub>NO = 123.15

U.N Number.....2431

ADG Class.....6.1

Packing Group.....III

**223 m-Anisidine For Synthesis**

UNILAB

Assay.....98% min.

Density @ 20°C.....1.101 -1.103

Pack Size: 100mL

**o-Anisidine**

CAS 90-04-0

Synonyms: 2-Methoxyaniline  
C<sub>7</sub>H<sub>9</sub>NO = 123.15

U.N Number.....2431

ADG Class.....6.1

Packing Group.....III

**539 o-Anisidine For Synthesis**

UNILAB

Assay.....98% min.

Density @ 20°C.....1.091 -1.093

Pack Size: 500mL

**Anisole**

CAS 100-66-3

C<sub>7</sub>H<sub>8</sub>O = 108.1

U.N Number.....2222

ADG Class.....3

Packing Group.....III

**4039 Anisole**

OP

Appearance: clear colourless liquid

Assay.....98.5% min.

Refractive index (@20°C).....1.5160 – 1.5190

Specific gravity (@25°C).....0.991 – 0.995

Maximum limit of impurities(%)

Water.....0.1

Pack size: 1L

## Anthracene

CAS 120-12-7  
 $C_{14}H_{10} = 178.2$

### 72 Anthracene

UNILAB

Description: White to light yellow crystalline powder  
Assay.....99.0% min.  
Melting Point.....214 - 216°C

Pack size: 100g

## Anthraquinone

CAS 84-65-1  
 $C_{14}H_8O_2 = 208.22$

### 1778 Anthraquinone

UNILAB

Description: Yellow fine crystalline powder  
Assay.....99.0% min.  
Melting Point.....253 - 287°C

Pack size: 100g

## Anthraquinone-2-Sulphonic Acid Sodium Salt (1hydrate)(Siver Salt)

CAS 131-08-8  
 $C_{14}H_7NaO_5S.H_2O = 328.28$

### 291 Anthraquinone-2-Sulphonic Acid Sodium Salt (1hydrate)(Siver Salt) (an electron acceptor in biological redox system)

UNVAR

Assay (by chelatometry on.....98% min.  
anhydrous substance)

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.005  
Fe..... 0.001

H<sub>2</sub>O..... 5.2 – 5.8  
Sulphated ash..... 21.0 – 22.2

Pack Size: 25g

## Anthrone

CAS 90-44-8  
 $C_{14}H_{10}O = 194.23$

### 1309 Anthrone

OP

Reagent for carbohydrates.  
M.P. ....152 - 157°C

Pack Size: 25g

## Anti-Bumping Granules

CAS 1344-28-1

### 1677 Anti-Bumping Granules

LABCHEM

Granules of fused alumina.

Pack Size: 250g, 5kg

## Antifoam

### 1402 Antifoam, Silicone Liquid

TECHNICAL

10% active emulsion of silicone in water. Dilutes easily with water. Recommended usage level: 100 parts of Cat.1402 per million parts of foamer.

Pack Size: 100mL, 500mL

Antimony Chloride (See Antimony Trichloride Page 68 )

## Antimony (Metal) Lumps 99.5%

CAS 7440-36-0  
Sb =121.75

U.N Number.....2871  
ADG Class.....6.1  
Packing Group.....III



### 142 Antimony (Metal) Lumps 99.5%

UNVAR

Assay.....99.5%  
min.

Maximum limit of impurities(%)

Pb. .... 0.05  
Fe. .... 0.01

Cu. .... 0.005

Pack Size: 500g

## Antimony Potassium Tartrate

CAS 28300-74-5  
KSbO<sub>3</sub>.C<sub>4</sub>H<sub>4</sub>O<sub>6</sub> =324.93

U.N Number.....1551  
ADG Class.....6.1  
Packing Group.....III



### 73 Antimony Potassium Tartrate

UNVAR

Assay.....99.5% min.

pH (5% solution).....4.0 – 4.2

Maximum limit of impurities(%)

Water-insoluble matter ..... 0.005  
AS ..... 0.0006  
Ca ..... 0.005

Cu ..... 0.001  
Fe ..... 0.002  
Pb ..... 0.002

Pack Size: 500g

**74** **Antimony Potassium (+) Tartrate** UNILAB

CAS 28300-74-5  
 $\text{KSbOC}_4\text{H}_4\text{O}_6 \cdot \frac{1}{2} \text{H}_2\text{O} = 333.93$   
 Assay.....98.5% min.  
 L.O.D. (@105°C).....2.7% max.

Pack Size: 500g, 5kg

**75** **Antimony Potassium Tartrate** TECHNICAL

Description: white fine crystalline powder.

Pack Size: 500g

**Antimony Trichloride**

CAS 10025-91-9  
 $\text{SbCl}_3 = 228.11$

U.N Number.....1733  
 ADG Class.....8  
 Packing Group.....III



**76** **Antimony Trichloride** UNVAR

Description: colourless crystals, fuming on contact with moisture in the air.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol. (in $\text{CHCl}_3$ ).....	0.05		
$\text{SO}_4$ .....	0.005	Pb.....	0.005
As.....	0.02	Ca.....	0.005
Cu.....	0.001	K.....	0.01
Fe.....	0.002	Na.....	0.02

Conforms to ACS

Pack Size: 100g, 500g

**Antimony Trioxide**

CAS 1309-64-4  
 $\text{Sb}_2\text{O}_3 = 291.50$

U.N Number.....1549  
 ADG Class.....6.1  
 Packing Group.....III



**134** **Antimony Trioxide** UNVAR

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.005		
Pb.....	0.05	$\text{SO}_4$ .....	0.02
Fe.....	0.003	K.....	0.002
As.....	0.005	Na.....	0.002

Pack Size: 500g

**77** **Antimony Trioxide** LABCHEM

Assay.....99.0% min.

Pack Size: 500g, 5kg

## Antipyrine

CAS 60-80-0

Synonyms: Phenazone; 2,3-Dimethyl-1-phenyl-3-pyrazolin-5-one

$C_{11}H_{12}N_2O = 188.23$

### 1556 Antipyrine

UNILAB

Assay.....99% min.

M.P. ....109 – 111°C

Pack Size: 100g

## Aquamount

### 1865 Aquamount

LABCHEM

Water-based mountant

Pack Size: 100mL

## D(-)-Arabinose

CAS 10323-20-3

$C_5H_{10}O_5 = 150.1$

### 3418 D(-)-Arabinose

LABCHEM

Description: white crystalline powder

Pack size: 25g

## L(+)-Arabinose

CAS 5328-37-0

$C_5H_{10}O_5 = 150.1$

### 3011 L(+)-Arabinose

UNIVAR

Description: white crystalline powder

Assay.....99.0% min.

Melting Point.....156 - 160° C

Opt. Rotation (on dry basis).....+104 ± 1°

Maximum limit of impurities(%)

H<sub>2</sub>O..... 0.05

Sulphated ash..... 0.1

Pack size: 25g

# Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis.

They exceed ACS specifications and are ideal for use as reference standards.

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## L-Arginine

CAS 74-79-6  
 $C_6H_{14}N_4O_2 = 174.2$

### 6340 L-Arginine

UNIVAR

Description: white crystalline powder

Assay.....98.0% min.

Melting Point.....235°C

Maximum limit of impurities(%)

Ca.....0.001

Fe.....0.0005

Heavy metals (as Pb).....0.0005

As.....0.0003

Cl.....0.005

SO<sub>4</sub>.....0.005

Pack size: 100g

## L-Arginine Monohydrochloride

CAS 1119-34-2  
 $C_6H_{15}N_4O_2Cl = 210.67$

### 1311 L-Arginine Monohydrochloride

LABCHEM

Appearance: White crystal powder.

Assay.....98.5 - 101.0%

Specific Rotation.....+21.4 to +23.6°

Maximum limit of impurities(%)

L.O.D.....0.2

R.O.I.....0.1

H.M.(as Pb).....0.001

Pack Size: 25g

## Arsenazo I

CAS 520-10-5  
Synonyms: Neothorone  
 $C_{16}H_{10}AsN_2Na_3O_{11}S_2 = 614.28$

U.N Number.....3456

ADG Class.....6.1

Packing Group.....III



### 209 Arsenazo I Reagent for Thorium

UNILAB

Pack Size: 5g

## Arsenazo III

CAS 1668-00-4  
 $C_{22}H_{18}As_2N_4O_{14}S_2 = 776.37$

U.N Number.....3456

ADG Class.....6.1

Packing Group.....II



### 198 Arsenazo III Reagent for Thorium, Uranium & Zirconium

UNILAB

Sensitivity to Thorium.....1.5

Pack Size: 5g



## Arsenic 1000ppm Single Element ICP standard

U.N Number.....3287  
 ADG Class.....6.1  
 Packing Group.....II



### 2624 Arsenic 1000ppm Single Element ICP standard UNIPURE

A 1000 ppm Arsenic standard, ready for use.  
 As in 0.5% Hydrochloric acid.

Pack Size: 100mL

## Arsenic AAS Standard

U.N Number.....3287  
 ADG Class.....6.1  
 Packing Group.....II



### 2606 Arsenic AAS Standard SPECTROSOL

A 1000 ppm Arsenic standard, ready for use.  
 Each mL contains 1.00+/-0.005mg of As in 1.4% Hydrochloric acid, 32%.

Pack Size: 500mL

## Arsenic (III) Oxide

CAS 1327-53-3  
 As<sub>2</sub>O<sub>3</sub> = 197.84

U.N Number.....1561  
 ADG Class.....6.1  
 Packing Group.....II



### 1800 Arsenic (III) Oxide, Certified Reference Standard UNIPURE

Assay (Redox) (dried at 105°C).....99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in HCl..... 0.01	
Residue on Ignition..... 0.02	Fe..... 0.0005
Cl..... 0.002	K..... 0.005
S..... 0.001	Mg..... 0.005
H.M. (as Pb)..... 0.001	Mn..... 0.001
Ca..... 0.005	Na..... 0.005
Cd..... 0.001	Ni..... 0.001
Co..... 0.001	Pb..... 0.001
Cr..... 0.001	Sn..... 0.05
Cu..... 0.001	Zn..... 0.001

Pack Size: 100g

## Arsenic Trioxide

CAS 1327-53-3

Synonyms: Arsenous Oxide, Arsenous Anhydride

As<sub>2</sub>O<sub>3</sub> = 197.84

U.N Number.....1561

ADG Class.....6.1

Packing Group.....II



78

### Arsenic Trioxide

UNIVAR

**Description:** white powder.

Assay.....99.5% min.

Maximum limit of impurities(%)

Insol. (in dil. HCl)..... 0.01

R.A.I..... 0.05

Cl..... 0.005

S..... 0.001

Fe..... 0.0005

Pb..... 0.002

Sb..... 0.05

Pack Size: 100g, 500g

915

### Arsenic Trioxide

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

S..... 0.01

Pack Size: 500G

**Arsenous Anhydride** (See Arsenic Trioxide Page 72 )

**Arsenous Oxide** (See Arsenic Trioxide Page 72 )

## L-Ascorbic Acid

CAS 50-81-7

C<sub>6</sub>H<sub>8</sub>O<sub>6</sub> = 176.13

104

### L-Ascorbic Acid

UNIVAR

**Description:** colourless crystals or a white to very pale yellow, crystalline powder; odourless. It melts at about 190°C with decomposition.

Assay.....99.0 - 100.5%

PH (5% soln.).....2.1-2.6

Spec. Rotn. ....+20.5 to +21.5°(10% w/v soln.)

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test

Sulph. ash..... 0.1

H.M. (as Pb)..... 0.0003

Oxalic Acid..... 0.2

Cl..... 0.005

Cu..... 0.0005

Fe..... 0.0002

Ni..... 0.001

Pb..... 0.0002

SO<sub>4</sub>..... 0.002

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

79

**L-Asparagine**

UNILAB

**Description:** colourless crystals or a white to very pale yellow, crystalline powder; odourless. It melts at about 190°C with decomposition.

Assay.....99.0 - 100.5%  
 PH (5% soln.).....2.1-2.6  
 Spec. Rotn. ....+20.5 to +21.5°(10% w/v soln.)

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test  
 Sulph. ash.....0.1  
 H.M. (as Pb).....0.0002

Oxalic Acid.....0.2  
 Copper (Cu).....0.0005  
 Iron (Fe).....0.0002

**Pack Size:** 100g, 500g, 5kg, 25kg

**L-Asparagine**

CAS 5794-13-8

$\text{NH}_2\text{COCH}_2\text{CH}(\text{NH}_2)\text{COOH}\cdot\text{H}_2\text{O} = 150.13$

1312

**L-Asparagine**

UNILAB

Assay.....98% min.  
 Spec. rotn. ....(c=10) +33 to +36.5°

Maximum limit of impurities(%)

R.O.I. ....0.1  
 Sulph. Ash.....0.1  
 Fe.....0.002  
 H.M.(as Pb).....0.001

As.....0.0003  
 SO<sub>4</sub>.....0.025  
 L.O.D.....12.5

**Pack Size:** 25g

**DL-Asparagine Monohydrate**

CAS 3130-87-8

$\text{C}_4\text{H}_8\text{N}_2\text{O}_3 = 150.1$

1475

**DL-Asparagine Monohydrate**

UNILAB

**Description:** white crystalline powder

Assay.....98.0% min.  
 Melting Point.....220° C

Maximum limit of impurities(%)

R.O.I. ....0.1

**Pack size:** 25g

**DL-Aspartic Acid**

CAS 617-45-8

$\text{C}_4\text{H}_7\text{NO}_4 = 133.1$

1313

**DL-Aspartic Acid**

UNILAB

**Description:** white crystalline powder

Assay.....98.0% min.  
 Melting Point.....about 280° C

Maximum limit of impurities(%)

Ash.....0.05

**Pack size:** 100g

## L-Aspartic Acid

CAS 56-84-8  
C<sub>4</sub>H<sub>7</sub>O<sub>4</sub> = 133.10

1320

**L-Aspartic Acid For Biochemistry 99+% (Used as a substrate in determination of L-Aspartate decarboxylase)**

LABCHEM

Assay.....99% min.  
M.P. ....265 – 271°C

Pack Size: 25g, 100g

**Aspirin** (See Acetylsalicylic Acid Page 29 )

**Atomic Sulphur** (See Sulphur Powder Atomic Page 438 )

## Atropine Sulphate

CAS 5908-99-6  
C<sub>34</sub>H<sub>48</sub>N<sub>2</sub>O<sub>10</sub>·S·H<sub>2</sub>O =694.85

U.N Number.....1544  
ADG Class.....6.1  
Packing Group.....II



544

**Atropine Sulphate**

UNILAB

M.P. ....189 – 192°C

Maximum limit of impurities(%)  
R.O.I. .... 0.05

Pack Size: 5g

## Auramin

CAS 2465-27-2  
Synonyms: Auramin (O); Basic yellow; C.I. 41000  
C<sub>17</sub>H<sub>22</sub>N<sub>3</sub>Cl =303.84

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



3177

**Auramin For Microscopy**

UNILAB

Absorption.....431 – 433nm max.  
Absorptivity.....(A 1% 1cm I=432nm,880 940 pH 6.0 on dried substance)  
Suitability for microscopy Passes test  
(Biological stain, forms a highly Fluorescent Complex with horse liver alcohol dehydrogenase)

Maximum limit of impurities(%)  
L.O.D. (@ 105°C)......2

Pack Size: 25g

**Aurinetricarboxylic Acid Ammonium Salt** (See Aluminon Page 42 )

**Azimidobenzene** (See IH-Benzotriazole Page 85 )

**Auramin (O)** (See Auramin Page 74 )

## Azur II

CAS 37247-10-2  
 $C_{31}H_{34}Cl_2N_6S_2 = 625.68$

**3179** Azur II For Microscopy C.I. 52010 LABCHEM

Pack Size: 10g

## Barbitone Sodium

CAS 144-02-5  
 $C_8H_{11}N_2O_3Na = 206.18$

**899** Barbitone Sodium LABCHEM

Biological Buffer  
 Assay.....98.5% min.

Pack Size: 250g, 1kg

## Barbituric Acid

CAS 67-52-7  
 $C_4H_4O_3N_2 = 128.09$

**1321** Barbituric Acid LABCHEM

Assay.....99% min.

Pack Size: 100g

## Barium 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



**2654** Barium 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Barium standard, ready for use.  
 Ba in 0.5% Hydrochloric acid.

Pack Size: 100mL

## Barium AAS Standard

CAS 10361-37-2

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



**2607** Barium AAS Standard SPECTROSOL

A 1000 ppm Barium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ba in 0.5% Hydrochloric acid.

Traceable to NIST

Pack Size: 500mL

## Barium Acetate

CAS 543-80-6  
(CH<sub>3</sub>COO)<sub>2</sub>Ba = 255.42

U.N Number.....1564  
ADG Class.....6.1  
Packing Group.....III



80

### Barium Acetate

UNIVAR

Description: white crystals or crystalline powder.  
Assay.....99.0-102.0%

Maximum limit of impurities(%)

Insol.....	0.01	H.M. (as Pb).....	0.0005
Cl.....	0.001	Sr.....	0.2
Oxidising subs. (as NO <sub>3</sub> ).....	0.005	Na.....	0.005
Ca.....	0.05	K.....	0.003
Fe.....	0.001	Mg.....	0.005

Conforms to ACS

Pack Size: 500g

## Barium Bromide

CAS 7791-28-8  
BaBr<sub>2</sub>·2H<sub>2</sub>O = 333.17

U.N Number.....1564  
ADG Class.....6.1  
Packing Group.....III



129

### Barium Bromide

UNILAB

Assay.....98% min.  
pH of 10% solution.....5 - 7

Maximum limit of impurities(%)

Fe.....	0.002
Pb.....	0.002

Pack Size: 500g

## Barium Carbonate

CAS 513-77-9  
BaCO<sub>3</sub> = 197.34

U.N Number.....1564  
ADG Class.....6.1  
Packing Group.....III



920

### Barium Carbonate

UNIVAR

Description: white powder.  
Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol. (in dil. HCl).....	0.015	Ca.....	0.05
Water sol. titratable bases.....	0.2 mmol OH	Fe.....	0.002
Cl.....	0.002	H.M. (as Pb).....	0.001
Oxidising subs. (as NO <sub>3</sub> ).....	0.005	Sr.....	0.7
S.....	0.001	Na.....	0.02

Conforms to ACS

Pack Size: 500g

## Barium Chloranilate

CAS 32458-20-1  
 $C_6BaCl_2O_4 \cdot 3H_2O = 398.34$

U.N Number.....1564  
 ADG Class.....6.1  
 Packing Group.....III



329

### Barium Chloranilate (chloranilic acid barium salt)

UNILAB

Reagent for colorimetric determination  
 of sulphate  
 Assay (by complexometry on.....98.5% min.  
 anhydrous substances)  
 Suitability for determination of.....Passes test  
 sulphate

Maximum limit of impurities(%)  
 $H_2O$ .....12 -14%

Pack Size: 25g

## Barium Chloride

CAS 10361-37-2  
 $BaCl_2 \cdot 2H_2O = 244.27$

U.N Number.....1564  
 ADG Class.....6.1  
 Packing Group.....III



81

### Barium Chloride

UNIVAR

**Description:** colourless crystals or crystalline powder.  
 Assay.....99.0% min.  
 pH (5% soln. @).....5.2 – 8.2  
 L.O.D. (@150°C).....14.0-16.0%

Maximum limit of impurities(%)  
 Insol. .... 0.005  
 Oxidising subs. (as  $NO_3$ )..... 0.005  
 Ca. .... 0.005  
 Na. .... 0.005  
 Fe..... 0.0001

H.M. (as Pb)..... 0.0005  
 Sr..... 0.01  
 Mg..... 0.001  
 K..... 0.0025

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

82

### Barium Chloride

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)  
 Oxidising subs. (as  $NO_3$ )..... 0.05  
 Ca. .... 0.2  
 Fe..... 0.001

H.M. (as Pb)..... 0.001  
 Sr..... 0.3

Pack Size: 500g, 5kg



**906 Barium Chloride** LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Ca. ....	0.05	
Fe. ....	0.002	H.M. (as Pb)..... 0.002

Pack Size: 500g

**1317 Barium Chloride** TECHNICAL

Pack Size: 3kg

**Barium Chromate**

CAS 10294-40-3	U.N Number.....1479
BaCrO <sub>2</sub> =253.32	ADG Class.....5.1
	Packing Group.....II



**1529 Barium Chromate** LABCHEM

Density @ 25°C (g/ml)..... 4.5

M.P. ....210°C

Pack Size: 500g

**Barium Diphenylamine-4-Sulphonate**

CAS 6211-24-1	U.N Number.....1564
(C <sub>12</sub> H <sub>10</sub> NO <sub>3</sub> S) <sub>2</sub> Ba = 633.87	ADG Class.....6.1
	Packing Group.....III



**964 Barium Diphenylamine-4-Sulphonate** LABCHEM

Redox indicator.

Transition EMF (@ pH=0).....+ 0.84 V

Colour change:

Oxidized (red-violet) to reduced (colourless)

See also "indicators-redox".

Pack Size: 5g

**Barium Hydroxide**

CAS 12230-71-6	U.N Number.....1564
Ba(OH) <sub>2</sub> .8H <sub>2</sub> O= 315.48	ADG Class.....6.1
	Packing Group.....III



**83 Barium Hydroxide (Octahydrate)** UNIVAR

Assay (BaOH)<sub>2</sub>.8H<sub>2</sub>O).....98.0% min.

Maximum limit of impurities(%)

Carbonate (as BaCO <sub>3</sub> ). ....	2.0	Fe. ....	0.0005
Substances insoluble in dilute HCl. ....	0.005	Ca. ....	0.002
Cl. ....	0.001	Sr. ....	0.5
S. ....	0.0005	Substances not ppt by dilute. ....	0.2
H.M. (as Pb).....	0.0005	H <sub>2</sub> SO <sub>4</sub> (as SO <sub>4</sub> )	

Pack Size: 500g

**921 Barium Hydroxide UNILAB**

Assay.....	98% min.	
Maximum limit of impurities(%)		
BaCO <sub>3</sub> .....	4.0	
Cl.....	0.01	H.M. (as Pb)..... 0.005
Fe.....	0.005	Subs. not ppt. by H <sub>2</sub> SO <sub>4</sub> ..... 0.5

Pack Size: 500g, 25kg

**Barium Nitrate**

CAS 10022-31-8  
Ba(NO<sub>3</sub>)<sub>2</sub> = 261.34

U.N Number.....1446  
ADG Class.....5.1  
SUB.....6.1  
Packing Group.....II



**85 Barium Nitrate UNIVAR**

**Description:** colourless crystals.

Assay.....	99.0% min.	
pH (5% soln. @ 25°C).....	5.0-8.0	
Maximum limit of impurities(%)		
Insol.....	0.01	H.M. (as Pb)..... 0.0005
Cl.....	0.0005	Sr..... 0.1
Ca.....	0.05	Na..... 0.005
Fe.....	0.0002	K..... 0.005

Pack Size: 500g, 5kg

**86 Barium Nitrate UNILAB**

Assay.....	99.0% min.
Maximum limit of impurities(%)	
Cl.....	0.01
Fe.....	0.002
H.M. (as Pb).....	0.002

Pack Size: 500g

**Barium Sulphate**

CAS 7727-43-7  
BaSO<sub>4</sub> = 233.40

**264 Barium Sulphate, For Soil Analysis LABCHEM**

High purity grade for soil analysis, and X-Ray examinations. A fine, heavy, white powder, free from grittiness; odourless.

Maximum limit of impurities(%)	
L.O.I. (600°C).....	2.0
Soluble Ba salts.....	passes test
Acidity/Alkalinity.....	passes test
Oxidisable sulphur compounds.....	passes test
As.....	0.0002
Chemical and Physical parameters conform to BP	
H.M. (as Pb).....	0.001
Phosphate.....	0.005
Acid-soluble substances.....	0.3
Sedimentation.....	passes test

Pack Size: 500g

**Basic Red 5** (See Neutral Red (CI 50040) Page 303 )

**Basic Violet 3** (See Crystal Violet (CI42555) Page 160 )

**Basic Yellow 2** (See Auramin Page 74 )

## Beeswax

CAS 8012-89-3

### 6091 Beeswax, White, Bleached

Technical

Chemical and physical parameters conform to BP

Pack Size: 500g

## Benedicts Solution

### 735 Benedicts Solution

LABCHEM

For detection of sugar in urine.

Pack Size: 500mL, 2.5L

**Bentonite** (See Fullers Earth For Absorption Page 210 )

## Benzaldehyde

CAS 100-52-7

Synonyms: Benzoic Aldehyde

$C_6H_5CHO = 106.12$

U.N Number.....1990

ADG Class.....9

Packing Group.....III



### 781 Benzaldehyde

UNIVAR

**Description:** Clear pale yellow to yellow liquid, with characteristic odour.

Assay.....99% min.

R.I.....1.544-1.546 @ 20°C

Maximum limit of impurities(%)

Acid Value.....7mg KOH/g

Pack Size: 500mL

### 924 Benzaldehyde

UNILAB

Density about 1.04g/mL

Assay.....98.0% min.

Pack Size: 500mL

## Benzamide

CAS 55-21-0  
 $C_7H_7NO = 121.1$

### 2441 Benzamide

LABCHEM

Description: White crystalline powder  
 Assay.....98.0% min.  
 Melting Point.....125 - 128°C

Pack size: 100g

## Benzanilide

CAS 93-98-1  
 $C_{13}H_{11}NO = 197.24$

### 3172 Benzanilide

UNILAB

Description: White to cream-coloured fine powder  
 Assay.....99.0% Min.  
 M.P. ....162 - 165°C

Pack Size: 100g

**Benzeneacetic Acid** (See Phenylacetic Acid Page 330 )

**Benzenecarboxylic Acid** (See Benzoic Acid Page 82 )

**Benzenecarbonyl Chloride** (See Benzoyl Chloride Page 85 )

**1,4-Benzenediamine** (See P-Phenylenediamine Page 332 )

**Benzenemethanol** (See Benzyl Alcohol Page 86 )

## Benzenesulphonyl Chloride

CAS 98-09-9  
 $C_6H_5SO_2Cl = 176.62$

U.N Number.....2225  
 ADG Class.....8  
 Packing Group.....III



### 204 Benzenesulphonyl Chloride

UNILAB

Reagent for amines.  
 Assay.....98% min.  
 Boiling Range.....249-251°C  
 R.I.....about 1.552 min.

Pack Size: 500mL

**1,3,5-Benzenetriol** (See Phloroglucinol Page 334 )

## Benzil

CAS 134-81-6  
 $C_{14}H_{10}O_2 = 210.23$

### 90 Benzil

UNILAB

Description: Yellow crystalline powder  
Assay.....99.0% min.  
Melting Point.....93 - 95°C

Pack size: 250g

## Benzilic Acid

CAS 76-93-7  
 $C_{14}H_{12}O_3 = 228.25$

### 92 Benzilic Acid

UNILAB

Description: White to cream white powder  
Assay.....98.0% min.  
Melting Point.....150 - 152°C

Pack size: 250g

## Benzimidazole

CAS 51-17-2  
 $C_7H_6N_2 = 118.14$

### 328 Benzimidazole For Synthesis

UNILAB

Assay.....99% min.  
M.P. ....170 - 173°C

Pack Size: 25g, 100g

## Benzoic Acid

CAS 65-85-0  
Synonyms: Benzenecarboxylic Acid  
 $C_7H_6O_2 = 122.12$

### 1801 Benzoic Acid, Certified Reference Standard

UNIPURE

Assay (Acidim.) (dried on  $SiO_2$ ).....99.95 - 100.05%  
Identity: To pass Test  
Melting range.....122 - 123°C

Maximum limit of impurities(%)

Insoluble matter in  $CH_3OH$ . . . . . 0.005  
Residue on Ignition. . . . . 0.005  
Reducing substances to  $KMnO_4$ . . . . . To pass test  
Darkened substances by  $H_2SO_4$ . . . . . To pass test  
Chlorine compounds (as Cl). . . . . 0.01  
Sulphur compounds (as S). . . . . 0.01

Heavy metals (as Pb). . . . . 0.0005  
As. . . . . 0.0003  
Cu. . . . . 0.0005  
Fe. . . . . 0.0002  
Ni. . . . . 0.0005  
Pb. . . . . 0.0005

Pack Size: 100g

926

**Benzoic Acid**

UNIVAR

**Description:** colourless, fine, needle-shaped crystals.

Assay.....99.9% min.

M.P. ....122-123°C

Maximum limit of impurities(%)

Insol. (in CH<sub>3</sub>OH)..... 0.005

R.A.I. .... 0.005

Cl cpds (as Cl)..... 0.005

S cpds (as S)..... 0.002

H.M. (as Pb)..... 0.0005

Subs. reducing KMnO<sub>4</sub>..... To pass test**Pack Size:** 100g, 500g

823

**Benzoic Acid**

UNILAB

**Description:** colourless, light, feathery crystals or white powder; odour slight and characteristic.

Assay.....99.0 - 100.5%

M.P. ....121-123°C

Maximum limit of impurities(%)

Clarity &amp; colour of soln.....To pass test

Carbonisable substances.....To pass test

Halogenated cpds &amp; halides..... 0.03

Sulph. ash..... 0.05

H.M. (as Pb)..... 0.0010

Oxidizable substances..... To pass test

As..... 0.0003

Water..... 0.7

Chemical and physical parameters conform to BP

**Pack Size:** 500g, 5kg, 25kg**Benzoic Acid Ethyl Ester** (See Ethyl Benzoate Page 197 )**Benzoic Acid Methyl Ester** (See Methyl Benzoate Page 287 )**Benzoic Acid Sodium Salt** (See Sodium Benzoate Page 393 )**Benzoic Aldehyde** (See Benzaldehyde Page 80 )**Benzoin**

CAS 76-93-7

C<sub>14</sub>H<sub>12</sub>O<sub>2</sub> = 212.3

93

**Benzoin**

LABCHEM

**Description:** Buff to light brownish yellow powder

Maximum limit of impurities(%)

Sulphated ash..... 0.2

**Pack size:** 100g

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.

Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## $\alpha$ -Benzoin Oxime

CAS 441-38-3

Synonym: Cuprone

$C_{14}H_{13}NO_2 = 227.27$

### 94 $\alpha$ -Benzoin Oxime (Precipitation reagent for copper, molybdenum and tungsten)

UNILAB

M.P. ....151 – 155°C  
Solubility and sensitivity to Cu, Mo To Pass test

Pack Size: 25g

## Benzonitrile

CAS 100-47-0

Synonyms: Phenyl cyanide

$C_7H_5N = 103.12$

U.N Number.....2224

ADG Class.....6.1

Packing Group.....II



### 3280 Benzonitrile For Synthesis

UNILAB

Assay.....99% min.  
Density 20°C.....1.004 -1.005  
R.I. ....1.5275 – 1.5295  
Soluble in water.....To pass test

Pack Size: 500mL

## Benzophenone

CAS 119-61-9

$C_6H_5COC_6H_5 = 182.22$

### 928 Benzophenone

UNILAB

M.P. ....47-49°C  
Assay (GC).....99% min.

Pack Size: 100g

## p-Benzoquinone

CAS 106-51-4

$O=C_6H_4=O = 108.10$

U.N Number.....2587

ADG Class.....6.1

Packing Group.....II



### 929 p-Benzoquinone

TECHNICAL

M.P.....about 115°C  
assay (GC).....99% min.

Pack Size: 100g

**Benzosulphochloride** (See Benzenesulphonyl Chloride Page 81 )



## IH-Benzotriazole

CAS 95-14-7  
 $C_6H_5N_3 = 119.13$

### 3016 IH-Benzotriazole

LABCHEM

Assay (ex N).....about 99% min.  
 M.P. ....93-95°C

Pack Size: 250g, 500g

## Benzotrichloride

CAS 98-07-7  
 Synonyms: Trichloromethyl benzene  
 $C_7H_5Cl_3 = 195.48$  g/mol

U.N Number.....2226  
 ADG Class.....8  
 Packing Group.....II



### 522 Benzotrichloride For Synthesis

LABCHEM

Assay.....99% min.  
 Density @ 20°C.....1.372 – 1.375

Pack Size: 500mL

## 1-Benzoyl Acetone

CAS 93-91-4  
 $C_{10}H_{10}O_2 = 162.19$

### 2124 1-Benzoyl Acetone

LABCHEM

Description: Pale yellow shining crystalline powder  
 Assay.....98.0% min.

Pack size: 100g

## Benzoyl Chloride

CAS 98-88-4  
 $C_6H_5COCl = 140.57$

U.N Number.....1736  
 ADG Class.....8  
 Packing Group.....II



### 930 Benzoyl Chloride

UNILAB

Density.....about 1.21g/mL  
 Assay.....98% min.

Pack Size: 500mL

## a-N-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE)

CAS 2645-08-1  
C<sub>15</sub>H<sub>23</sub>ClN<sub>4</sub>O<sub>3</sub> = 342.83

### 237 a-N-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE)(for the estimation of trypsin, papain and bromelain) LABCHEM

Assay.....99% min.

Pack Size: 1g

## 6-Benzyl Adenine

CAS 1214-39-7  
Synonyms: 6-Benzyl aminopurine  
C<sub>12</sub>H<sub>11</sub>N<sub>5</sub> = 225.25

### 241 6-Benzyl Adenine UNILAB

Assay.....99% min.  
M.P. ....230 – 233°C

Pack Size: 5g

## Benzyl Alcohol

CAS 100-51-6  
C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH = 108.14

### 97 Benzyl Alcohol UNILAB

**Description:** clear, colourless, refringent, oily liquid; odour, slightly aromatic.

Assay.....98.0 - 100.5%  
Density (@ 20°C).....1.043 – 1.049g/mL  
R.I. ....1.538 – 1.541

Maximum limit of impurities(%)

Acidity. ....To pass test  
Benzaldehyde & related subs. .... 0.2  
Clarity of solution. .... To pass test

Peroxide value. .... 5  
N.V.M. .... 0.05

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L

6-Benzyl Aminopurine (See 6-Benzyl Adenine Page 86 )

# Laboratory Reagents

**UNILAB**

UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Benzyl Benzoate

CAS 120-51-4  
 $C_6H_5COOCH_2C_6H_5 = 212.25$

933

### Benzyl Benzoate

UNILAB

Assay.....98% min.  
 Density @ 20°C.....1.115 – 1.119g  
 F.P. ....> 17°C  
 R.I. ....1.569 – 1.570

Maximum limit of impurities(%)  
 Acidity.....<0.5 ml

Pack Size: 500mL

1972

### Benzyl Benzoate

UNILAB

Description: colourless to oily liquid  
 Assay.....99.0% min.

Maximum limit of impurities(%)  
 Sulphated ash. .... 0.05  
 Free acid (as Benzoic acid)..... 0.05

Pack size: 500mL

## Benzyl Chloride

CAS 100-44-7  
 $C_6H_5CH_2Cl = 126.59$

U.N Number.....1738  
 ADG Class.....6.1  
 Packing Group.....II



858

### Benzyl Chloride

UNILAB

Assay (GC).....98.5% min.  
 Density @ 20°C.....1.097 – 1.101

Maximum limit of impurities(%)  
 Acidity..... 0.2mL N  
 N.V..... 0.05

Pack Size: 500mL, 2.5L GL

## Benzyl Cyanide

CAS 140-29-4  
 Synonyms: Phenylacetone nitrile; a-Tolunitrile  
 $C_6H_5CH_2CN = 117.15$

U.N Number.....3276  
 ADG Class.....6.1  
 Packing Group.....II



3019

### Benzyl Cyanide For Synthesis

LABCHEM

Assay.....>99% min.  
 Density @ 20°C.....1.015 – 1.017  
 R.I. @ 20°C.....1.5225 – 1.5235  
 Immiscible with water.....To pass test

Pack Size: 500mL



## Bicine

CAS 150-25-4  
 $C_6H_{13}NO_4 = 163.2$

### 3417 Bicine, Biological Buffer

UNIVAR

**Description:** White powder  
**Solubility (0.1M in H<sub>2</sub>O):** Clear and complete  
 Assay.....99.0% min.  
 pKa.....8.1 – 8.5  
 pH.....4.0 -6.0

Maximum limit of impurities(%)  
 Moisture..... 1.0

**Pack size:** 100g, 1KG

## Biebrich Scarlet

CAS 4196-99-0  
 $C_{22}H_{14}N_4O_7S_2Na_2 = 556.5$

### 3180 Biebrich Scarlet (C.I. 26905)

LABCHEM

**Description:** Brown coloured powder  
 Dye content about 66.0%

**Pack size:** 25g

## D-Biotin

CAS 58-85-5  
 $C_{10}H_{16}N_2O_3S = 244.31$

### 224 D-Biotin For Biochemistry (Vitamin H)

LABCHEM

Assay.....98% min.

Maximum limit of impurities(%)  
 H.M. (as Pb)..... 0.001

**Pack Size:** 1g

## Biphenyl

CAS 92-52-4  
 $C_{12}H_{10} = 154.2$

U.N Number.....3077  
 ADG Class.....9  
 Packing Group.....III



### 1040 Biphenyl

UNILAB

**Description:** Colourless to white leaflets  
 Assay.....98.0% min.  
 Melting Point.....68 - 70°C

**Pack size:** 250G

## 2,2-Bipyridine (See 2-2-Bipyridyl Page 90 )

### 2,2-Bipyridyl

CAS 366-18-7  
(C<sub>5</sub>H<sub>4</sub>N)<sub>2</sub> = 156.19

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 207 2,2-Bipyridyl

LABCHEM

Reagent for Fe and Mo.  
Redox indicator.

**Description:** off-white crystalline powder.

M.P. ....69 - 71°C

Sensitivity to Fe.....1 in 10,000,000 min.

Transission to EMF (@ pH=0).....+ 1.03V

Colour change: (Iron (II) complex)

Oxidized (pale blue) to reduced (red)

See also "indicators - redox"

Pack Size: 5g

### 2,2'-Biquinoline

CAS 119-91-5  
Synonyms: 2,2'-Diquinolyl  
C<sub>18</sub>H<sub>12</sub>N<sub>2</sub> =256.31

### 232 2,2'-Biquinoline

LABCHEM

Assay.....99% min.

Sensitivity to Cu.....1:1000000

Maximum limit of impurities(%)

Sulphated Ash..... 0.05

Cu..... 0.0002

Pack Size: 1g

### Bismark Brown R

CAS 5421-66-9  
C<sub>21</sub>H<sub>24</sub>N<sub>8</sub>.2HCl = 386

### 3181 Bismark Brown R

LABCHEM

**Description:** Dark brown solid  
Dye content 40.0% min.

Pack size: 25g

## Bismuth 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2655 Bismuth 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Bismuth standard, ready for use.  
 Bi in 0.5% Nitric acid.

Pack Size: 100mL

## Bismuth AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2609 Bismuth AAS Standard

SPECTROSOL

A 1000 ppm Bismuth standard, ready for use. Each mL contains 1.00 +/-0.005mg of Bi in 0.5% Nitric acid.

Traceable to NIST

Pack Size: 500mL

## Bismuth Carbonate

CAS 5892-10-4  
 (BiO)<sub>2</sub>CO<sub>3</sub> = 509.97

### 938 Bismuth Carbonate (Basic)

UNIVAR

Assay (Bi).....80 – 82%

Maximum limit of impurities(%)

Cl.....	0.005	Fe.....	0.005
Cd.....	0.005	Pb.....	0.005
Cu.....	0.005	Zn.....	0.005

Pack Size: 100g

## Bismuth (III) Chloride

CAS 7787-60-2  
 BiCl<sub>3</sub> = 315.34

### 3021 Bismuth (III) Chloride

UNILAB

Description: yellowish deliquescent crystals

Assay.....98.0% min.

Melting Point.....230 - 232°C

Maximum limit of impurities(%)

Fe.....	0.01	Zn.....	0.005
Pb.....	0.005	Moisture.....	1.0
SO.....	0.05		

Pack size: 100g

## Bismuth Nitrate

CAS 10035-06-0  
Bi(NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O = 485.07

U.N Number.....1477  
ADG Class.....5.1  
Packing Group.....III



### 939 Bismuth Nitrate UNIVAR

Description: colourless deliquescent crystals, with an odour of nitric acid.

Assay.....98.5% min.

Maximum limit of impurities(%)

Zn.....	0.001	Cu.....	0.002
Cl.....	0.001	Fe.....	0.001
SO <sub>4</sub> .....	0.01	Pb.....	0.002
Ag.....	0.001	K.....	0.002
Ca.....	0.002	Na.....	0.002

Store below 25°C

Pack Size: 100g

## Bismuth Oxide

CAS 1304-76-3  
Bi<sub>2</sub>O<sub>3</sub> = 465.96

### 99 Bismuth Oxide UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

LOI (@1000°C).....	1.0	Ni.....	0.01
Fe.....	0.05	Pb.....	0.005
Cu.....	0.005	Insol. matter in HCl.....	0.05

Pack Size: 100g

## Bismuth Oxychloride

CAS 7787-59-9

### 2392 Bismuth Oxychloride LABCHEM

approx. BiOCl

Pack Size: 100g

# Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards. Discover More: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)



## Bismuth Sulphate

CAS 7787-68-0  
 $\text{Bi}_2(\text{SO}_4)_3 = 706.15$

### 225 Bismuth Sulphate UNIVAR

Assay (as  $\text{Bi}_2(\text{SO}_4)_3$  ex Bi).....90% min.

Maximum limit of impurities(%)

Cl.....	0.01	K.....	0.005
$\text{NO}_3$ .....	0.025	Na.....	0.01

Pack Size: 250g

## Biuret

CAS 108-19-0  
 $\text{C}_2\text{H}_5\text{N}_3\text{O}_2 = 103.08$

### 2154 Biuret UNILAB

**Description:** Off-white crystalline powder

Assay.....99.0% min.

Melting Point.....187 - 194°C

Maximum limit of impurities(%)

L.O.D.....1

Pack size: 100g

**BLO** (See  $\gamma$ -Butyrolactone Page 113 )

**Blue Tetrazolium Chloride** (See Blue Tetrazolium Page 93 )

## Blue Tetrazolium

CAS 1871-22-3

**Synonyms:** Blue Tetrazolium Chloride

For succinate dehydrogenase activity and NDH linked enzyme systems.  
 Certified for use in assay of corticosteroids in histology redox indicator  
 for enzyme

$\text{C}_{40}\text{H}_{32}\text{Cl}_2\text{N}_8\text{O}_2 = 727.64$

### 3182 Blue Tetrazolium For Microscopy LABCHEM

Assay (on dry basis, ex Cl).....95% min.

M.P. ....252 - 254°C

Maximum limit of impurities(%)

Sulphated ash.....0.2

Pack Size: 1g

**Boracic Acid** (See Boric Acid Granular Page 94 )

## Boric Acid Granular

CAS 10043-35-3

Synonyms: Sodium Borate, Borax

H<sub>3</sub>BO<sub>3</sub> = 61.83

### 101 Boric Acid Granular

UNIVAR

**Description:** white crystals or granules.

Assay.....99.5% min.

Maximum limit of impurities(%)

Insol. (in CH<sub>3</sub>OH)..... 0.005  
Non-vol. (with CH<sub>3</sub>OH)..... 0.05  
Cl..... 0.001  
PO<sub>4</sub>..... 0.001  
Ca..... 0.001  
K..... 0.001  
Na..... 0.01  
SO<sub>4</sub>..... 0.01  
As..... 0.0001  
Ba..... 0.0001  
Cr..... 0.0001  
Co..... 0.0001

Mn..... 0.0001  
Mo..... 0.0001  
Ni..... 0.0001  
Sr..... 0.0001  
Al..... 0.0005  
Mg..... 0.0005  
Zn..... 0.0005  
Fe..... 0.0002  
Cu..... 0.0002  
Cd..... 0.0002  
Pb..... 0.0002  
H.M as Pb..... 0.001

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

### 942 Boric Acid Granular

UNILAB

**Description:** colourless brilliant plates or white crystals, unctuous to the touch; odourless.

Assay.....99.0 - 100.5%

pH.....(3% soln.) 3.8-4.8

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test  
Sol. (in ethanol)..... To pass test  
SO<sub>4</sub>..... 0.045

H.M. (as Pb)..... 0.0015  
Na.....To pass test  
Carbonisable subs.....To pass test

Organic Matter to pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

### 102 Boric Acid Powder

UNILAB

**Description:** white crystalline powder, unctuous to the touch; odourless.

Assay.....99.0 - 100.5%

pH.....(3% soln.) 3.8-4.8

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test  
Sol. (in ethanol).....To pass test  
SO<sub>4</sub>..... 0.045

H.M. (as Pb)..... 0.0015  
Organic matter.....To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

907

**Boric Acid**

LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.1 H.M (as Pb)..... 0.001

Pack Size: 500g

**Boron Trifluoride 14% In Methanol**

CAS 16045-88-8

U.N Number.....3286

ADG Class.....3

SUB.....6.1/8

Packing Group.....III



1814

**Boron Trifluoride 14% In Methanol**

UNILAB

Description: clear, colourless liquid

Assay (Acidim.) .....14.0% min.

Pack size: 500mL

**di-Boron Trioxide (Anhydrous)**

CAS 1303-86-2

B<sub>2</sub>O<sub>3</sub> =69.62

U.N Number.....3082

ADG Class.....9

Packing Group.....III



216

**di-Boron Trioxide (Anhydrous) (For analysis of Silicates)**

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.002 Ca..... 0.002

Cl..... 0.005 Na..... 0.003

Fe..... 0.00005 K..... 0.003

Pack Size: 250g

**BRIJ 35**

CAS 9002-92-0

2610

**BRIJ 35**

LABCHEM

Description: Polyoxyethylene (23) lauryl ether, Nonionic surfactant, stable in alkaline/acid conditions. White waxy solid soluble in water, alcohol and propylene glycol.

Acid value.....5mg KOH/g

Pack Size: 500g

**Brilliant Blue R** (See Coomassie Brilliant Blue R250 Page 152 )

## Brilliant Cresyl Blue (C.I. 51010)

CAS 81029-05-2  
 $C_{17}H_{20}N_3OCl \cdot \frac{1}{2}ZnCl_2 = 386$

### 3183 Brilliant Cresyl Blue (C.I. 51010)

LABCHEM

Description: Dark green lustrous powder  
Absorption maximum.....about 625nm

Pack size: 25g

## Brilliant Fuchsin (See Fuchsin Basic Page 210 )

## Brilliant Green

CAS 633-03-4  
 $C_{27}H_{34}N_2N_2O_4S = 482.6$

### 3184 Brilliant Green

LABCHEM

Description: Golden coloured fine glistening powder  
Absorption maximum.....about 625nm

Pack size: 25g

## Bromine

CAS 7726-95-6  
 $Br_2 = 159.81$

U.N Number.....1744  
ADG Class.....8  
SUB.....6.1  
Packing Group.....I



### 3023 Bromine

OP

Density about ..... 3.11g/mL  
Assay .....99.5% min.

Maximum limit of impurities(%)

Non-vol..... 0.005  
Cl ..... 0.05  
I ..... 0.001

$SO_4$ ..... 0.0005  
Organic Br cpds.....To pass test

Pack Size: 100mL, 250mL

## Bromine Water

CAS 7726-95-6

U.N Number.....3287  
ADG Class.....6.1  
Packing Group.....III



### 769 Bromine Water

LABCHEM

Contains.....about 3.6% bromine.  
Density.....about 1.02g/mL

Pack Size: 500mL

## 4-Bromo Aniline

CAS 106-40-1  
C<sub>6</sub>H<sub>6</sub>BrN =172.03

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 323 4-Bromo Aniline For Synthesis

UNILAB

Assay (ex NH<sub>2</sub>).....98% min.  
M.P. ....61 - 65°C

Maximum limit of impurities(%)  
Sulphated ash. .... 0.1

Pack Size: 25g

## 4-Bromo Anisole

CAS 104-92-7  
Synonyms: 1-Bromo-4-Methoxybenzene  
C<sub>7</sub>H<sub>7</sub>BrO =187.04

### 322 4-Bromo Anisole

UNILAB

Assay (GC).....>98%  
B.P. ....223°C  
Density @ 20°C.....1.494 -1.497  
Identity (IR) To Conforms

Pack Size: 100mL

## Bromoacetic Acid

CAS 79-08-3  
C<sub>2</sub>H<sub>3</sub>BrO<sub>2</sub> =138.95 g/mol

U.N Number.....3425  
ADG Class.....8  
Packing Group.....II



### 121 Bromoacetic Acid For Synthesis

UNILAB

Assay (by acidimetric).....98% min.

Pack Size: 100g, 500g

## 4-Bromoacetophenone

CAS 99-90-1  
C<sub>8</sub>H<sub>7</sub>BrO =199.04 g/mol

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 325 4-Bromoacetophenone

UNILAB

Assay.....98% min.  
M.P. ....49 - 52°C

Pack Size: 100g

1-Bromo-4-Methoxybenzene (See 4-Bromo Anisole Page 97 )

## Bromobenzene

CAS 108-86-1  
 $C_6H_5Br = 157.01$

U.N Number.....2514  
ADG Class.....3  
Packing Group.....III



### 98 Bromobenzene

UNILAB

Assay(GC).....99.0% min.

Pack Size: 100mL, 2.5L

## Bromochloromethane

CAS 74-97-5  
 $BrCH_2Cl = 129.39$

U.N Number.....1887  
ADG Class.....6.1  
Packing Group.....III



### 1342 Bromochloromethane

OP

Assay.....99.0% min.

Density.....1.991

Pack size: 1L

## Bromocresol Green

CAS 76-60-8  
 $C_{21}H_{14}Br_4O_5S = 698.04$

### 2327 Bromocresol Green

LABCHEM

pH indicator.

Pack Size: 5g, 50g, 1kg

### 2513 Bromocresol Green Solution

LABCHEM

Description: Dark green solution.

Visual transition colour

pH (3.8)..... yellow To pass test

pH (4.5)..... green To pass test

pH (5.4)..... blue To pass test

Pack Size: 100mL

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## Bromocresol Purple

CAS 115-40-2  
 $C_{21}H_{16}Br_2O_5S = 540.24$

### 2295 Bromocresol Purple

LABCHEM

pH and adsorption indicator.

Visual transition colour

pH (5.2) yellow ..... To pass test

pH (6.8) ..... purple To pass test

Pack Size: 5g, 50g

## Bromoethane

CAS 74-96-4  
**Synonyms:** Ethyl Bromide  
 $C_2H_5Br = 108.97$

U.N Number.....1891

ADG Class.....6.1

Packing Group.....II



### 321 Bromoethane For Synthesis

UNILAB

Assay (GC).....99% min.

Density @ 20°C.....1.456 – 1.460

R.I. @ 20°C.....1.4235 – 1.4250

Maximum limit of impurities(%)

N.V. .... 0.005

Acidity ..... 0.015

Free Br. .... 0.005

Pack Size: 500ml

## Bromoform 99%

CAS 75-25-2  
 $CHBr_3 = 252.73$

U.N Number.....2515

ADG Class.....6.1

Packing Group.....III



### 813 Bromoform 99%, Stabilised With 1% Ethanol

UNILAB

Density (20°C) .....2.800 - 2.830g/mL

Maximum limit of impurities(%)

Non-vol. .... 0.05

Ethanol ..... 1.0

Pack Size: 100mL, 500mL, 2.5L

# HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)

## 1-Bromonaphthalene

CAS 90-11-9  
C<sub>10</sub>H<sub>7</sub>Br = 207.08

### 549 1-Bromonaphthalene For Synthesis

LABCHEM

Assay.....98% min.  
Density @ 20°C.....1.483 -1.486

Pack Size: 100mL, 10x100mL, 500mL

## Bromophenol Blue

CAS 115-39-9  
C<sub>19</sub>H<sub>10</sub>Br<sub>4</sub>O<sub>5</sub>S = 669.99

### 2383 Bromophenol Blue

LABCHEM

pH and adsorption indicator. In electrophoresis, can be used as a tracking dye for alkaline and neutral buffer systems.

Visual Transition Interval:  
pH 3.0 (yellow) to pH 4.6 (blue)

Maximum limit of impurities(%)  
Clarity of solution. ....To pass test  
Visual transition interval. ....To pass test

Conforms to ACS

Pack Size: 5g

## 2-Bromopropane

CAS 75-26-3  
C<sub>3</sub>H<sub>7</sub>Br = 122.99

### 3110 2-Bromopropane For Synthesis

LABCHEM

Assay (GC).....99% Min.  
Density @ 20°C.....1.313 – 1.315

Pack Size: 500ml

## Bromopyrogallol Red

CAS 16574-43-9  
C<sub>19</sub>H<sub>10</sub>Br<sub>2</sub>O<sub>8</sub>S = 558.16

### 605 Bromopyrogallol Red

LABCHEM

Adsorption and metal indicator.

Pack Size: 1g



## N-Bromosuccinimide

CAS 128-08-5  
 $C_4H_4BrNO_2 = 177.98$

U.N Number.....3261  
 ADG Class.....8  
 Packing Group.....III



### 3276 N-Bromosuccinimide

UNILAB

Assay (Iodometric).....98% min.  
 M.P. ....175 - 180°C

Maximum limit of impurities(%)  
 Sulphated ash..... 0.1

Pack Size: 100g

## Bromothymol Blue

CAS 76-59-5  
 $C_{27}H_{28}Br_2O_5S = 624.41$

### 606 Bromothymol Blue

LABCHEM

pH indicator.

Pack Size: 5g, 10g, 500g

## Bromothymol Blue Solution

U.N Number.....1170  
 ADG Class.....3  
 Packing Group.....III



### 1723 Bromothymol Blue 0.04% Solution

LABCHEM

pH indicator

Pack Size: 100mL

## Brucine

CAS 357-57-3  
 $C_{23}H_{26}N_2O_4 = 394.46$

U.N Number.....1570  
 ADG Class.....6.1  
 Packing Group.....I



### 1492 Brucine

UNILAB

Description: Off-white crystalline powder  
 Assay.....99.0% min.  
 Melting point.....175 - 177°C  
 Specific rotation.....117 - 121°

Maximum limit of impurities(%)  
 R.O.I (as  $SO_4$ )..... 0.1

Pack size: 25g

## Brucine Sulphate

CAS 4845-99-2  
(C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>) H<sub>2</sub>SO<sub>4</sub> = 886.99

U.N Number.....1544  
ADG Class.....6.1  
Packing Group.....II



### 3025 Brucine Sulphate

UNILAB

**Description:** white small crystalline powder  
Assay.....98.0% min.  
Melting point.....176 - 179°C

Maximum limit of impurities (%)  
Sulphated Ash..... 0.1                      H<sub>2</sub>O..... 0.5

Pack size: 25g

## Buffer Solution

### 2431 Buffer pH4, For Use With Residual Cl<sub>2</sub> Analyser

LABCHEM

**Description:** Buffer concentrate made to water authority formula for dilution 1:4000 in amphoteric treatment/ chlorination of water.

pH@ 20°C (as is).....3.95 - 4.05  
pH@ 20°C (1 to 4000).....3.75-4.25

Pack Size: 20L

### 2489 Buffer Solution pH 6.88

LABCHEM

Stabilized with 0.01% sodium azide  
pH@ 20°C (6.88).....6.86 - 6.90  
Traceable to NIST

Temperature Correction

°C	v's	pH
10		6.92
15		6.90
20		6.88
25		6.86
30		6.85
35		6.84

Pack Size: 20L

### 2490 Buffer Solution pH 4.0 Colour Coded (Red)

LABCHEM

Contains potassium hydrogen phthalate. Stabilized with 0.01% sodium azide. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 4.0

pH@ 20°C (4.0).....3.98 - 4.02  
Traceable to NIST

Temperature Correction

°C	v's	pH
10		4.00
15		4.00
20		4.00
25		4.00
30		4.00
35		4.01
40		4.02

Pack Size: 100mL, 500mL, 6x500mL, 1L, 6x1L, 20L

**2491 Buffer Solution pH 7.0 Colour Coded (Green)**

LABCHEM

Contains potassium sodium orthophosphate. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 7.0.

pH@ 20°C (7.00).....6.98 - 7.02

Traceable to NIST

## Temperature Correction

°C	v's	pH
10		7.08
15		7.03
20		7.00
25		6.98
30		6.95
35		6.95
40		6.95

Pack Size: 500mL, 6x500nL, 1L, 6x1L

**2492 Buffer Solution pH 9.2 Colour Coded (Turq)**

LABCHEM

Contains sodium tetraborate. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 9.2.

pH(@ 20°C).....9.13 - 9.23

## Temperature Correction

°C	v's	pH
5		9.36
10		9.29
15		9.24
20		9.18
25		9.14
30		9.10
35		9.06

Pack Size: 100mL, 500 mL, 6 x 500mL, 1L, 6 x 1L, 20L

**2564 Buffer Solution pH 10.0 Colour Coded, (Blue)**

Contains sodium tetraborate stabilized with sodium azide. The colour of this buffer solution matches that of AJAX Universal Indicator (Cat 613) at pH 10.0.

pH@ 20°C(10.0).....9.95 - 10.05

Traceable to NIST

## Temperature Correction

°C	v's	pH
10		10.10
15		10.05
20		10.00
25		9.95
30		9.91
35		9.87

Pack Size: 100mL, 500mL, 6x500mL, 1L, 6x1L, 20L

**8180 pH 4.0 Clear Buffer Solution**

LABCHEM

Contains Potassium Hydrogen Phthalate.  
Microbiocide added  
Stabilised with 0.01% Sodium Azide.  
pH.....4.0 ± 0.02 @ 20°C  
Traceable to NIST

## Temperature Correction

°C	v's	pH
10		4.00
15		4.00
20		4.00
25		4.00
30		4.00
35		4.01
40		4.02

Pack Size: 500mL, 6x500mL, 1L, 6x1L

**8181 pH 7.0 Clear Buffer Solution**

LABCHEM

Contains Potassium Dihydrogen Othophosphate.  
Stabilised with 0.01% Sodium Azide.  
pH.....7.0 ± 0.02 @ 20°C  
Traceable to NIST

## Temperature Correction

°C	v's	pH
10		7.08
15		7.03
20		7.00
25		6.98
30		6.95
35		6.95
40		6.95

Pack Size: 500mL, 6x500nL, 1L, 6x1L

**8182 pH 9.22 Clear Buffer Solution**

LABCHEM

Contains Sodium Tetraborate stabilised with Sodium Azide.  
pH.....9.22 ± 0.05 @ 20°C  
Traceable to NIST

## Temperature Correction

°C	v's	pH
5		9.36
10		9.29
15		9.24
20		9.18
25		9.14
30		9.10
35		9.06

Pack Size: 500mL, 6x500mL, 1L, 6x1L

**8183** **pH 10.00 Clear Buffer Solution** **LABCHEM**

Contains Sodium Tetraborate stabilised with Sodium Azide.  
 pH.....10.00 ± 0.05 @ 20°C  
 Traceable to NIST

## Temperature Correction

°C	v's	pH
10		10.10
15		10.05
20		10.00
25		9.95
30		9.91
35		9.87

Pack Size: 500mL, 6x500mL, 1L, 6x1L

**1450** **Buffer Capsules, To Prepare 100ml, pH 4.0** **LABCHEM**

Appearance: Yellow and white coloured capsule containing pH indicating dye and preservative for dissolution in 100mL distilled water

pH(@20°C).....3.95 – 4.05

Pack size: 10 Tablets

**1451** **Buffer Capsules, To Prepare 100ml, pH 7.0** **LABCHEM**

Appearance: Green and white coloured capsule containing pH indicating dye and preservative for dissolution in 100mL distilled water

pH(@20°C).....6.95 – 7.05

Pack size: 10 Tablets

**1452** **Buffer Capsules, to prepare 100mL, pH 9.2** **LABCHEM**

Appearance: Blue and white coloured capsule containing pH indicating dye and preservative for dissolution in 100mL distilled water

pH (@20°C).....9.15 – 9.25

Pack size: 10 Tablets

**2501** **Buffer Pack For Instruments pH 4, 7, 9.2, 10** **LABCHEM**

Buffer pack for instruments pH 4.0, 7.0, 9.2, 10.0

Pack Size: 4X100mL

**8010064** **Buffer Tablets pH 6.4 100 mL** **LABCHEM**

These tablets are useful for making solutions of a nominal aqueous pH value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the easy-to-use Buffer solutions.

Pack Size: 50

**8010068** Buffer Tablets pH 6.8 100 mL LABCHEM

**Pack Size:** 50  
These tablets are useful for making solutions of a nominal aqueous value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

**Pack Size:** 50

**8010070** Buffer Tablets pH 7.0 100 mL LABCHEM

These tablets are useful for making solutions of a nominal aqueous pH value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

**Pack Size:** 50

**8100072** Buffer Tablets pH 7.2 1L LABCHEM

These tablets are useful for making solutions of a nominal aqueous value. Each tablet is dissolved in 1000ml of distilled water to make a 1L solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

**Pack Size:** 50

**8010090** Buffer Tablets pH 9.2 100mL UNIVAR

These tablets are useful for making solutions of a nominal aqueous value. Each tablet is dissolved in 100ml of distilled water to make a 100ml solution.

For calibration of pH meters, we recommend the ready-to-use Buffer solutions.

**Pack Size:** 50

**Mops**

CAS 1132-61-2  
C<sub>7</sub>H<sub>15</sub>NO<sub>4</sub>S= 209.3

**3431** Mops, Biological Buffer UNIVAR

**Description:** White powder  
Assay.....99.0% min.  
pH (10% Solution).....3.0 – 5.0

**Pack size:** 100g, 500g, 1KG

## 1,4-Butanediol

CAS 110-63-4  
 $\text{HO}(\text{CH}_2)_4\text{OH} = 90.12$

### 1349 1,4-Butanediol UNILAB

Assay.....99.0% min.  
 Colour (APHA).....10

Maximum limit of impurities(%)  
 Water..... 0.1

Pack size: 500mL

## Butan-1-ol

CAS 71-36-3  
**Synonyms:**n-Butanol, n-Butyl Alcohol  
 $\text{CH}_3(\text{CH}_2)_2\text{CH}_2\text{OH} = 74.12$

U.N Number.....1120  
 ADG Class.....3  
 Packing Group.....III



### 286 Butan-1-ol SPECTROSOL

Density.....0.810 g/mL  
 M.P. ....-89°C  
 B.P. ....117.7°C  
 Assay (GC).....99.8% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by Coulometry)..... 0.05  
 R.O.E. .... 0.0005  
 FTIR Spectrum. ....To Pass test

Max. UV. Absorbance:				
$\lambda$ (nm)	220	230	250	270
Absorbance	0.52	0.22	0.022	0.009

Pack Size: 500mL, 2.5L GL

### 107 Butan-1-ol UNIVAR

**Description:** clear liquid with a characteristic odour.  
 Density about 0.81g/mL  
 Assay(GLC).....99.4% min.  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)  
 R.A.E. .... 0.005  
 Titratable acid. ....0.08 mmol  
 H Aldehydes. .... To pass test

Butyl ether ..... 0.2  
 H<sub>2</sub>O ..... 0.1

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L, 200L

### 108 Butan-1-ol UNILAB

Density.....about 0.81g/mL  
 B.R.(95% min.).....116 - 118°C

Maximum limit of impurities(%)  
 Non-vol. .... 0.05  
 Aldehydes & ketones (as C<sub>3</sub>H<sub>7</sub>CHO)..... 0.2

Pack Size: 500mL, 2.5L, 20L

## 1324 Butan-1-ol

TECHNICAL

Density.....about 0.81g/mL

Pack Size: 2.5L

## Butan-2-ol

CAS 78-92-2

Synonyms:Sec-Butanol, Sec-Butyl Alcohol

$C_2H_5CH(OH)CH_3 = 74.12$

U.N Number.....1120

ADG Class.....3

Packing Group.....III



## 112 Butan-2-ol

UNILAB

Assay.....99.0%

Colour (APHA).....10 max.

Maximum limit of impurities(%)

H<sub>2</sub>O.....0.2

Pack Size: 500mL, 2.5L

**Butanal** (See Butyraldehyde Page 112 )

**N-Butanal** (See Butyraldehyde Page 112 )

**Butanoic Acid** (See N-Butyric Acid Page 113 )

**N-Butanol** (See Butan-1-ol Page 107 )

**Sec-Butanol** (See Butan-2-ol Page 108 )

**2-Butanone** (See Ethyl Methyl Ketone Page 202 )

## 2-Butoxyethanol

CAS 111-76-2

$C_4H_9OCH_2CH_2OH = 118.18$

## 947 2-Butoxyethanol

UNILAB

Density.....about 0.90g/mL

B.R.(95% min.) 167 - 172°C

Maximum limit of impurities(%)

Non-vol.....0.01

H<sub>2</sub>O.....0.2

Pack Size: 2.5L



**n-Butyl Acetate**

CAS 123-86-4

Synonyms: Acetic Acid Butyl Ester

 $\text{CH}_3\text{COO}(\text{CH}_2)_3\text{CH}_3 = 116.16$ 

U.N Number.....1123

ADG Class.....3

Packing Group.....III

**109****n-Butyl Acetate**

UNILAB

Density.....about 0.88g/mL

Assay.....97.0% min.

B.R. (95% min.).....124-127°C

R.I. ....1.3940 – 1.3960

Maximum limit of impurities(%)

Non-vol. .... 0.01

Acidity (as  $\text{CH}_3\text{COOH}$ )..... 0.01 $\text{H}_2\text{O}$ ..... 0.1

Pack Size: 500mL, 2.5L, 20L

**N-Butyl Alcohol** (See Butan-1-ol Page 107 )**Sec-Butyl Alcohol** (See Butan-2-ol Page 108 )**Butyl Carbitol** (See Butyldigol Page 112 )**Butyl Cellosolve** (See 2-Butoxyethanol Page 108 )**N-Butyl Chloride** (See 1-Chlorobutane Page 137 )**Tert-Butyl Chloride** (See 2-Chloro-2-Methylpropane Page 140 )**Butyl Diicinol** (See Butyldigol Page 112 )**Butyl Di-Oxitol** (See Butyldigol Page 112 )**1,4-Butyleneglycol** (See 1,4- Butanediol Page 107 )**Butyl Icinol** (See 2-Butoxyethanol Page 108 )**n-Butyl Methacrylate**

CAS 97-88-1

 $\text{C}_8\text{H}_{14}\text{O}_2 = 142.20$ 

U.N Number.....2227

ADG Class.....3

Packing Group.....III

**507****n-Butyl Methacrylate For Synthesis**

LABCHEM

Assay (GC).....&gt;99%

Density @ 20°C.....0.894 – 0.895

Pack Size: 500mL

Tri-N-Butylamine (See Tributylamine Page 457 )

Butyl Oxitol (See 2-Butoxyethanol Page 108 )

## Tri-n-Butyl Phosphate

CAS 126-73-8  
 $\{\text{CH}_3(\text{CH}_2)_3\text{PO}_4 = 266.32$

### 556 Tri-n-Butyl Phosphate

UNILAB

Description: Used as an antifoam agent and plasticizer.

Density.....about 0.97 g/mL

B.P (5 mm bar).....130°C.

R.I. ....1.423 - 1.425

Assay.....99% min.

Maximum limit of impurities(%)

Acidity (as DBHP)..... 0.02

Butanol..... 0.2

H<sub>2</sub>O..... 0.2

Pack Size: 500mL

## DI-n-Butyl Phthalate

CAS 84-74-2  
 $\text{C}_6\text{H}_4(\text{COOC}_4\text{H}_9)_2 = 278.35$

### 184 DI-n-Butyl Phthalate

UNILAB

Assay.....99.0% min.

Density.....1.043-1.048 g/mL

R.I.....1.492 - 1.495

Maximum limit of impurities(%)

Sulph. ash..... 0.02

Acidity.....0.3 mmol H

Pack Size: 500mL

## Butyl Stearate

CAS 123-95-5  
Synonyms: Stearic Acid Butyl Ester  
 $\text{C}_{22}\text{H}_{44}\text{O}_2 = 340-60$

### 308 Butyl Stearate For Synthesis

UNILAB

Assay (by GC).....50%

Density @ 20°C.....0.856 - 0.859

R.I. n 50°/D.....1.4328

Pack Size: 500g

## DI-N-Butyl Sulphide

CAS 544-40-1  
 $\{\text{CH}_3(\text{CH}_2)_3\}_2\text{S} = 146.30$

### 1033 DI-N-Butyl Sulphide

TECHNICAL

Density.....about 0.84g/mL  
 R.I.....- 1.453  
 Assay.....97% min.  
 B.R.....185 – 188°C

Pack Size: 100mL

## n-Butylamine

CAS 109-73-9  
 $\text{CH}_3(\text{CH}_2)_3\text{NH}_2 = 73.14$

U.N Number.....1125  
 ADG Class.....3  
 SUB.....8  
 Packing Group.....II



### 1325 n-Butylamine

UNILAB

Density.....about 0.74g/mL  
 Assay.....99.0% min.

Pack size: 100mL, 500mL

## Butylated Hydroxy Anisole (B.H.A.)

CAS 25013-16-5  
 $\text{C}_{11}\text{H}_{16}\text{O}_2 = 180.25$

U.N Number.....3007  
 ADG Class.....9  
 Packing Group.....III



### 511 Butylated Hydroxy Anisole (B.H.A.)

UNILAB

Assay (by GC).....98% min.  
 M.P. ....58 – 60°C

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001  
 As. .... 0.0003

Ash content..... 0.05

Pack Size: 100g

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Butylated Hydroxy Toluene (B.H.T.)

CAS 128-37-0  
 $C_{15}H_{24}O = 220.36$

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



### 119 Butylated Hydroxy Toluene (B.H.T.)

UNILAB

Assay (by GC).....99% min.  
M.P. ....69 – 71°C

Maximum limit of impurities(%)  
Sulphated ash. .... 0.1

Pack Size: 500g

## Butyldigol

CAS 112-34-5  
 $CH_3(CH_2)_3OCH_2CH_2OCH_2CH_2OH = 162.23$

### 1326 Butyldigol

UNILAB

Assay.....99.0% min.

Pack size: 500mL

## Butyraldehyde

CAS 123-72-8  
Synonym: Butanal  
 $C_4H_8O = 72.11$

U.N Number.....1129  
ADG Class.....3  
Packing Group.....II



### 290 Butyraldehyde

LABCHEM

Assay (GC).....>99%  
Density @ 20°C.....0.802 – 0.804

Pack Size: 500mL

### 1338 Butyraldehyde

OP

Assay.....99.0% min.

Pack size: 500mL

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

**n-Butyric Acid**

CAS 107-92-6  
 $C_2H_5CH_2COOH = 88.11$

U.N Number.....2820  
 ADG Class.....8  
 Packing Group.....III

**2302 n-Butyric Acid**

UNILAB

Density.....about 0.96g/mL  
 R.I .....about 1.399  
 Assay.....99.0% min.

Maximum limit of impurities(%)  
 Water..... 0.1

Pack Size: 500mL

**Butyric Aldehyde** (See Butyraldehyde Page 112 )

**g-Butyrolactone**

CAS 96-48-0  
**Synonyms:** 4-Hydroxybutric lactone; BLO  
 $C_4H_6O_2 = 86.09$

**288 g-Butyrolactone For Synthesis**

UNILAB

Assay (by GC).....>99%  
 Density @ 20°C.....1.128 – 1.129  
 R.I. 20°C.....1.4350 -1.4360

Maximum limit of impurities(%)  
 $H_2O$ ..... 0.5

Pack Size: 500mL

**Cacotheline (Redox Indicator)**

CAS 561-20-6  
 $C_{21}H_{21}N_3O_7 = 427.417$

**287 Cacotheline (Redox Indicator) (Reagent for tin and vanadium Redox indicator for Fe (III) and Ca)** UNILAB

Assay (ex N).....95% min.  
 Suitability for.....To pass test  
 determination of metal

Maximum limit of impurities(%)  
 $H_2O$ ..... 5  
 Sulphated ash..... 0.1

Pack Size: 5g

## Cadion

CAS 5392-67-6  
 $C_{18}H_{14}N_6O_2 = 346.35$

283

### Cadion

UNILAB

Sensitivity as metal indicator.....To pass test  
Sensitivity to Cadmium.....1:2,000,000

Pack Size: 5g

## Cadmium 1000ppm Single Element ICP Standard

U.N Number.....2922  
ADG Class.....8  
SUB.....6.1  
Packing Group.....III



2626

### Cadmium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Cadmium standard, ready for use.  
Cd in 0.5% Nitric acid.

Pack Size: 100mL

## Cadmium AAS Standard

U.N Number.....2922  
ADG Class.....8  
SUB.....6.1  
Packing Group.....III



2631

### Cadmium AAS Standard

SPECTROSOL

A 1000 ppm cadmium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Cd in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

## Cadmium Acetate

CAS 5743-04-4  
 $Cd(CH_3COO)_2 \cdot 2H_2O = 266.52$

U.N Number.....2570  
ADG Class.....6.1  
Packing Group.....III



952

### Cadmium Acetate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....0.01

SO<sub>4</sub>.....0.06

Fe.....0.002

Pack Size: 500g

## Cadmium Carbonate

CAS 513-78-0  
CdCO<sub>3</sub> =172.42

U.N Number.....2570  
ADG Class.....6.1  
Packing Group.....III



### 3026 Cadmium Carbonate

UNILAB

Cd.....62 – 66%

Maximum limit of impurities(%)

Cl.....0.01

NO<sub>3</sub>.....0.1

SO<sub>4</sub>.....0.01

K.....0.06

Na.....0.1

Pack Size: 100g

### 3365 Cadmium Carbonate

UNILAB

**Description:** white-coloured amorphous powder

Assay (Cd).....62 - 66% min.

Maximum limit of impurities(%)

Cl.....0.01

NO<sub>3</sub>.....0.1

SO<sub>4</sub>.....0.01

K.....0.06

Pack size: 250g

## Cadmium Chloride

CAS 10108-64-2  
CdCl<sub>2</sub>.2½ H<sub>2</sub>O=228.35

U.N Number.....2570  
ADG Class.....6.1  
Packing Group.....III



### 837 Cadmium Chloride

UNIVAR

**Description:** colourless, efflorescent crystals.

Assay.....79.5 –81.0%

Maximum limit of impurities(%)

Insoluble matter.....0.005

Nitrate & Nitrite (as NO<sub>3</sub>).....0.003

SO<sub>4</sub>.....0.005

Ca.....0.005

Cu.....0.0005

Fe.....0.0005

K.....0.02

Na.....0.05

NH<sub>4</sub>.....0.005

Pb.....0.005

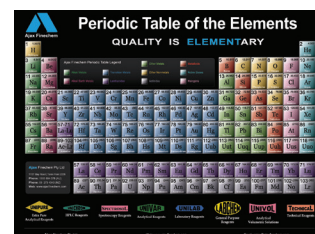
Zn.....0.05

Conforms to ACS

Pack Size: 100g, 500g

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Cadmium Iodide

CAS 7790-80-9  
CdI<sub>2</sub> = 366.22

U.N Number.....2570  
ADG Class.....6.1  
Packing Group.....III



### 7790 Cadmium Iodide

UNIVAR

**Description:** white, lustrous, flake-like crystals, becomes yellow on long exposure to air and light.  
Assay.....99.0% min.

Maximum limit of impurities (%)

Ca.....	0.01	SO <sub>4</sub> .....	0.005
Fe.....	0.005	Cu.....	0.005

Pack size: 100g

## Cadmium Nitrate

CAS 10022-68-1  
Cd(NO<sub>3</sub>)<sub>2</sub>·4H<sub>2</sub>O =308.48

U.N Number.....3087  
ADG Class.....5.1  
SUB.....6.1  
Packing Group.....II



### 841 Cadmium Nitrate

UNIVAR

Assay.....99.0% min.  
M.P. ....59°C

Maximum limit of impurities(%)

Cl.....	0.001	Fe.....	0.001
SO <sub>4</sub> .....	0.002	Zn.....	0.001
Pb.....	0.003	Ca.....	0.005
Cu.....	0.001	Na.....	0.005

Pack Size: 100g, 500g

## Cadmium Oxide

CAS 1306-19-0  
CdO =128.41

U.N Number.....2570  
ADG Class.....6.1  
Packing Group.....III



### 282 Cadmium Oxide

UNIVAR

Assay.....99.7% min.

Maximum limit of impurities(%)

Cu.....	0.0005	SO <sub>4</sub> .....	0.03
Fe.....	0.005	Pb.....	0.005
Cl.....	0.005	Zn.....	0.001

Pack Size: 100g



## Cadmium Sulphate

CAS 7790-84-3  
 $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O} = 769.51$

U.N Number.....2570  
 ADG Class.....6.1  
 Packing Group.....III



825

### Cadmium Sulphate

UNIVAR

**Description:** white crystalline powder

Assay.....98.0% min.

Maximum limit of impurities(%)

Fe..... 0.001

Pb..... 0.003

Cl..... 0.001

Zn..... 0.05

Insoluble matter..... 0.005

Pack size: 100g, 500g

956

### Cadmium Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.02

$\text{NO}_3$ ..... 0.005

Fe..... 0.002

Pack Size: 500g

## Caesium Chloride

CAS 7647-17-8  
 $\text{CsCl} = 168.36$

957

### Caesium Chloride

UNIVAR

**Description:** white deliquescent crystals.

Assay.....99.5% min.

Maximum limit of impurities(%)

$\text{SO}_4$ ..... 0.005

Ba..... 0.002

Ca..... 0.002

Fe..... 0.0005

K..... 0.002

Mg..... 0.0005

Na..... 0.002

Pb..... 0.0001

Rb..... 0.005

Al..... 0.0001

Li..... 0.0002

Pack Size: 100g, 500g

958

### Caesium Chloride

TECHNICAL

Pack Size: 1Kg

## Caesium Nitrate 99.5%

CAS 7789-18-6  
CsNO<sub>3</sub> =194-.91

U.N Number.....1451  
ADG Class.....5.1  
Packing Group.....III



### 3028 Caesium Nitrate 99.5%

Labchem

Pack Size: 10g

## Caesium Sulphate 99.5%

CAS 10294-54-9  
Cs<sub>2</sub>SO<sub>4</sub> =361.87

### 2388 Caesium Sulphate 99.5%

Labchem

Pack Size: 10g

## Caffeine (anhydrous)

CAS 58-08-2  
Synonym: 1,3,7 Trimethylxanthine  
C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub> =194.20

U.N Number.....1544  
ADG Class.....6.1  
Packing Group.....II



### 370 Caffeine (anhydrous)(Suitable for determination of Serum Bilirubin)

UNIVAR

Assay.....99% min.  
M.P. ....235° – 237°C

Maximum limit of impurities(%)

Water insoluble matter..... 0.005  
Acidity.....0.5 mL N  
L.O.D. @ 80°C..... 0.5  
Sulphated ash..... 0.05  
Cu..... 0.0002

Fe..... 0.0002  
Pb..... 0.0002  
Zn..... 0.0002  
Theobromine (C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>O<sub>2</sub>)..... 0.2

Pack Size: 100g

### 1584 Caffeine

LABCHEM

Appearance: Fine white powder  
M.P. ....234-239°C

Pack Size: 100g

## Calcein

CAS 1461-15-0  
C<sub>30</sub>H<sub>26</sub>N<sub>2</sub>O<sub>13</sub> = 622.54

### 3030 Calcein

OP

Description: Dark red coloured powder  
Absorption maximum (in 1N NaOH) 499nm

Maximum limit of impurities(%)

L.O.D.....7

Pack size: 5g

## Calcium

CAS 7440-70-2  
Ca = 40.08

U.N Number.....1401  
ADG Class.....4.3  
Packing Group.....II



### 123 Calcium granules, dry

LABCHEM

Pack Size: 100g, 500g

### 2428 Calcium, granular in liquid paraffin

LABCHEM

Pack Size: 100g

## Calcium

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2627 Calcium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Calcium standard, ready for use.  
Ca in 0.5% Nitric acid.  
Traceable to NIST

Pack Size: 100mL

## Calcium AAS Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2601 Calcium AAS Standard

SPECTROSOL

A 1000 ppm calcium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ca in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

## Calcium Acetate, dried

CAS 62-54-4  
(CH<sub>3</sub>COO)<sub>2</sub>Ca = 158.17

### 733 Calcium Acetate, dried

UNILAB

**Description:** white powder; odourless or almost odourless. Hygroscopic. The product contains varying amounts of water.

Assay (anhydrous basis).....99.0-100.5%

Maximum limit of impurities(%)

Cl..... 0.05

SO<sub>4</sub>..... 0.2

Water..... 10

Pack Size: 500g, 5kg

## Calcium Bromide

CAS 7789-41-5  
 $\text{CaBr}_2 \cdot \text{H}_2\text{O}$  M = 199.89.xH<sub>2</sub>O

### 2445 Calcium Bromide

UNILAB

Assay (as  $\text{CaBr}_2$ ).....80% min

Maximum limit of impurities(%)

Cl..... 0.5  
 As..... 0.0003  
 Fe..... 0.001  
 H.M. (as Pb)..... 0.001

$\text{SO}_4$ ..... 0.01  
 Ba..... passes test  
 Bromate ( $\text{BrO}_3$ )..... passes test  
 Matter not pptd by ammonium oxalate..... 0.5

Conforms to NF

Pack Size: 500g

## Calcium Carbonate

CAS 471-34-1  
 $\text{CaCO}_3$  = 100.09

### 125 Calcium Carbonate

UNIVAR

**Description:** white powder.

Assay(dried basis).....99%.

Maximum limit of impurities(%)

Insol. (in dil. HCl)..... 0.01  
 Cl..... 0.005  
 $\text{SO}_4$ ..... 0.03  
 K..... 0.01  
 Ba..... 0.01

Fe..... 0.003  
 Na..... 0.2  
 Sr..... 0.1  
 Mg..... 0.02

Pack Size: 500g, 5kg, 20kg

### 126 Calcium Carbonate

UNILAB

**Description:** white powder; odourless.

Assay(after drying).....98.5 - 100.5%

L.O.D. @ 200°C.....2.0%

Maximum limit of impurities(%)

Insol (in acetic acid)..... 0.2  
 Cl..... 0.033  
 $\text{SO}_4$ ..... 0.25  
 As..... 0.0004

Ba..... To pass test  
 Fe..... 0.020  
 H.M. (as Pb)..... 0.002  
 Mg & alk. metals..... 1.5

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

### 908 Calcium Carbonate

LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.05  
 H.M. (as Pb)..... 0.01

Pack Size: 500g

## Calcium Chloride Dihydrate

CAS 10035-04-8  
CaCl<sub>2</sub>.2H<sub>2</sub>O = 147.02

127

### Calcium Chloride Dihydrate

UNIVAR

**Description:** colourless deliquescent crystals or white crystalline powder.

Assay.....99.0 - 103.0%  
pH (5% soln. @25°C).....4.5-8.5

Maximum limit of impurities(%)

Insol. & NH<sub>4</sub>OH ppt. .... 0.01  
Oxidising subs. (as NO<sub>3</sub>). .... 0.003  
SO<sub>4</sub>..... 0.01  
K. .... 0.01  
Na. .... 0.01  
Ba. .... 0.003  
Fe. .... 0.0003

H.M.(as Pb)..... 0.0005  
Cu. .... 0.0005  
Pb. .... 0.0005  
Sr. .... 0.05  
Mg. .... 0.005  
NH<sub>4</sub>..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

128

### Calcium Chloride Dihydrate

UNILAB

**Description:** white, crystalline powder; odourless; hygroscopic.

Assay.....97.0 - 103.0%

Maximum limit of impurities(%)

Clarity & colour of soln. .... To pass test  
Acidity or alkalinity. .... 0.2 mmol H or OH  
SO<sub>4</sub>..... 0.03  
Al. .... To pass test

Ba. .... To pass test  
Fe. .... 0.001  
H.M. (as Pb)..... 0.002  
Mg & alkali metals..... 0.5

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

## Calcium Chloride dried,1.5-2.5mm

CAS 10043-52-4  
CaCl<sub>2</sub> = 110.99

960

### Calcium Chloride dried,1.5-2.5mm

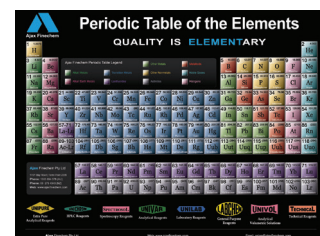
UNILAB

Assay.....93.0-100.5%

Pack Size: 500g, 5kg

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Calcium Chloride fused lump

CAS 10043-52-4  
CaCl<sub>2</sub> = 110.99

### 1672 Calcium Chloride fused lump

TECHNICAL

Assay(as CaCl<sub>2</sub>).....about 93% min.

Pack Size: 1kg

## Calcium Chloride 40% solution

CAS 10043-52-4  
CaCl<sub>2</sub> = 110.99

### 909 Calcium Chloride 40% solution

UNIVAR

Description: clear liquid.

Assay.....40.0% w/w  
Density (@25°C).....about 1.4g/mL

Maximum limit of impurities(%)

Insol. & NH<sub>4</sub>OH ppt..... 0.01  
Acidity or alkalinity..... 0.02 mmol H or OH  
Oxidising subs. (as NO<sub>3</sub>)..... 0.002  
SO<sub>4</sub>..... 0.006  
Ba..... 0.003  
Fe..... 0.0006

H.M. (as Pb)..... 0.0003  
K..... 0.01  
Mg..... 0.05  
Na..... 0.02  
NH<sub>4</sub>..... 0.003  
Sr..... 0.06

Pack Size: 2.5L, 20L

## Calcium Citrate

CAS 5785-44-4  
C<sub>12</sub>H<sub>10</sub>Ca<sub>3</sub>O<sub>14</sub>·4H<sub>2</sub>O = 570.50

### 489 Calcium Citrate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

As..... 0.0001  
H.M. (as Pb)..... 0.002  
Cl..... 0.005

SO<sub>4</sub>..... 0.01  
Fe..... 0.005

Pack Size: 500g

## Calcium Fluoride

CAS 7789-75-5  
CaF<sub>2</sub> = 78.08

### 1555 Calcium Fluoride

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Fe..... 0.01  
Pb..... 0.01  
As..... 0.0005

Cl..... 0.1  
SO<sub>4</sub>..... 0.005

Pack Size: 500g

## Calcium Gluconate

CAS 299-28-5  
 $\{CH_2OH(CHOH)_4COO\}_2Ca \cdot H_2O = 448.40$

### 962 Calcium Gluconate TECHNICAL

Pack Size: 500g

### 3480 Calcium Gluconate Gel OP

This is a temporary first aid treatment

Pack Size: 50g

## Calcium Hydrogen Orthophosphate

CAS 7789-77-7  
 $CaHPO_4 \cdot 2H_2O = 172.09$

### 963 Calcium Hydrogen Orthophosphate UNILAB

Assay.....99.0 - 103.0%

Maximum limit of impurities(%)

Cl.....0.04

SO<sub>4</sub>.....0.06

Pb.....0.002

Pack Size: 500g, 5kg, 25kg

## Calcium Hydroxide

CAS 1305-62-0  
**Synonym:** Slaked lime  
 $Ca(OH)_2 = 74.10$

### 124 Calcium Hydroxide UNIVAR

**Description:** fine, white powder.

Assay.....96.0% min.

Maximum limit of impurities(%)

Insol. (in HCl).....0.03

Cl.....0.005

Sulphate (SO<sub>4</sub>).....0.05

Fe.....0.05

Pb.....0.0002

Mg.....0.6

Na.....0.05

CaCO<sub>3</sub>......3

Sol matter in Amm. Oxalate(as SO<sub>4</sub>).....2.5

Zn.....0.0005

Pack Size: 500g, 5kg

### 965 Calcium Hydroxide UNILAB

**Description:** soft, white powder.

Assay.....95.0 - 100.5%

Maximum limit of impurities(%)

Cl.....0.033

SO<sub>4</sub>.....0.4

As.....0.0004

H.M. (as Pb).....0.0020

Carbonates.....5.0

Matter insol in HCl.....0.5

Mg & alkali metals (as SO<sub>4</sub>).....4.0

Chemical and physical parameters conform to BP

Pack Size: 1kg, 5kg, 25kg

## 133 Calcium Hydroxide

TECHNICAL

Pack Size: 3kg

## Calcium Lactate

CAS 814-80-2

$C_6H_{10}CaO_6^* + aq$  (MW for anhydrous\*=218)

## 2376 Calcium Lactate

UNILAB

**Description:** white or almost white crystalline or granular powder; odourless or with a slight but not unpleasant odour. Slightly efflorescent.

L.O.D. (@ 120°C).....about 24%

Assay (after drying).....98.0 - 101.0%

Maximum limit of impurities(%)

Cl..... 0.005

SO<sub>4</sub>..... 0.01

Fe..... 0.002

H.M.(as Pb)..... 0.002

Mg & alkali salts (as SO<sub>4</sub>)..... 1.0

Acidity.....To pass test

Vol Fatty Acids.....To pass test

As..... 0.0003

F..... 0.0015

Pb..... 0.001

Chemical and physical parameters conform to FCC

Pack Size: 500g

## Calcium Nitrate

CAS 13477-34-4

$Ca(NO_3)_2 \cdot 4H_2O = 236.15$

U.N Number.....1454

ADG Class.....5.1

Packing Group.....III



## 135 Calcium Nitrate

UNIVAR

**Description:** colourless deliquescent crystals or small white lumps.

Assay.....99.0 - 103.0%

pH (5% soln. @ 25°C).....5.0-7.0

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.005

NO<sub>2</sub>..... 0.001

Ba..... 0.005

Fe..... 0.0005

K..... 0.005

Mg..... 0.05

Na..... 0.01

Sr..... 0.05

H.M.(as Pb)..... 0.0005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

## 136 Calcium Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

SO<sub>4</sub>..... 0.02

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg



## Calcium Oxide Lump

CAS 1305-78-8  
CaO = 56.08

U.N Number.....1910  
ADG Class.....8  
Packing Group.....III



966

### Calcium Oxide Lump

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Insol. (in HCl)..... 0.1

Pack Size: 1Kg

1350

### Calcium Oxide powder

UNILAB

Assay (after Ignition).....99% min.

Maximum limit of impurities(%)

Insol. in HCl..... 0.5

L.O.I..... 10.0

Sol.matter in Am Oxalate (as SO<sub>4</sub>)..... 2.5

As..... 0.0003

Cu..... 0.001

Pb..... 0.001

Zn..... 0.002

Pack Size: 500g, 5kg, 25kg

## Calcium-D-Pantothenate

CAS 137-08-6

Synonyms: (+) Pantothenic Acid Calcium; Vitamin B5

C<sub>18</sub>H<sub>32</sub>CaN<sub>2</sub>O<sub>10</sub> =476.54

376

### Calcium-D-Pantothenate For Biochemistry

UNILAB

IR Spectrum.....To pass test

Maximum limit of impurities(%)

Ca..... 8.2 – 8.6%

Cl..... 0.02

L.O.D. (@ 105°C)..... 2.0

Pack Size: 25g

## Tri-Calcium Phosphate

CAS 7758-87-4

Ca<sub>3</sub>O<sub>8</sub>P<sub>2</sub> = 310.2

1277

### Tri-Calcium Phosphate

UNIVAR

Description: white, amorphous, odourless, tasteless powder

Assay (on dry basis).....90.0% min.

Maximum limit of impurities(%)

Fe..... 0.02

H.M. (as Pb)..... 0.005

Cl..... 0.2

SO<sub>4</sub>..... 0.6

Pack size: 1Kg

Calcium Phosphate Monobasic (See Calcium Tetrahydrogen Di-Orthophosphate Page127 )

## Calcium Propionate

CAS 4075-81-4  
 $C_6H_{10}CaO_4 = 186.22$

### 279 Calcium Propionate UNILAB

Assay (on dry basis).....97% min.  
pH (2% aqueous soln).....7.5 – 9.0

Maximum limit of impurities(%)  
Cl..... 0.01                      SO<sub>4</sub>..... 0.05

Pack Size: 500g

## Calcium Stearate

CAS 1592-23-0  
 $C_{36}H_{70}CaO_4 = 607.02$

### 131 Calcium Stearate UNILAB

Assay of CaO.....7% min.

Maximum limit of impurities(%)  
Ash..... 10                      H.M. (as Pb)..... 0.004  
L.O.D. (@ 105°C, 3h)......3                      Cl..... 0.02  
Free acid (as stearic acid)..... 0.3                      SO<sub>4</sub>..... 0.1

Pack Size: 500g

## Calcium Sulphate anhydrous, powder

CAS 7778-18-9  
 $CaSO_4 = 136.14$

### 968 Calcium Sulphate anhydrous, powder LABCHEM

Suitable for drying.

Pack Size: 500g

## Calcium Sulphate dihydrate

CAS 10101-41-4  
 $CaSO_4 \cdot 2H_2O = 172.17$

### 138 Calcium Sulphate dihydrate UNIVAR

Description: white crystalline powder.  
Assay.....98.0 - 102.0%

Maximum limit of impurities(%)  
Insol. (in HCl)..... 0.02                      H.M. (as Pb)..... 0.002  
CO<sub>3</sub>.....To pass test                      Mg..... 0.02  
Cl..... 0.005                      K..... 0.005  
NO<sub>3</sub>.....To pass test                      Na..... 0.02  
Fe..... 0.001                      Sr..... 0.05

Conforms to ACS

Pack Size: 500g, 5kg

**139 Calcium Sulphate Dihydrate** UNIVAR

Assay.....98.0% min.

Maximum limit of impurities(%)

CO<sub>3</sub>..... 0.2

Cl..... 0.03 Fe..... 0.02

Pack Size: 500g

**Calcium Tetrahydrogen DI-Orthophosphate**

CAS 7758-23-8

Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub> = 234.05**1522 Calcium Tetrahydrogen DI-Orthophosphate** UNILAB

Assay.....&gt;90% min.

Maximum limit of impurities(%)

Cl..... 0.002

Fe..... 0.015

SO<sub>4</sub>..... 0.05

H.M.(as Pb)..... 0.001

As..... 0.0001

LOD (@140°C).....1% max

Pack Size: 500g, 5kg

**Calcon Carboxylic Acid**

CAS 3737-95-9

Synonyms: 2 Hydroxy-1(2-Hydroxy-4 Sulpho-1 Naphthylazo)-3 Napthoic Acid

C<sub>21</sub>H<sub>14</sub>N<sub>2</sub>O<sub>7</sub>S = 438.41**3065 Calcon Carboxylic Acid**(Indicator for the Complexometric titration)  
(Patton & Reeder's reagent) LABCHEM

Pack Size: 5g

**Calmagite**

CAS 3147-14-6

C<sub>17</sub>H<sub>14</sub>O<sub>5</sub>N<sub>2</sub>S = 358.38**3032 Calmagite** OP

Description: red-coloured crystalline powder

Dye content about 60.0%

Pack size: 5g

Calomel (See Mercurous Chloride Page 278 )

Calomel (See Mercury (I) Chloride Page 279 )

Capryl Alcohol (See Octan-2-Ol Page 315 )

## Canada Balsam

CAS 8007-47-4

### 3185 Canada Balsam

OP

Description: yellow-coloured transparent, sticky liquid of high viscosity

Density.....0.987 – 0.994

R.I (n<sub>20</sub>/D).....1.52 – 1.54

Pack size: 500g

Capric Acid (See Decanoic Acid Page 164 )

## Caproic Acid

CAS 142-62-1

Synonyms: Hexanoic Acid

C<sub>6</sub>H<sub>12</sub>O<sub>2</sub> = 116.6

U.N Number.....2829

ADG Class.....8

Packing Group.....III



### 367 Caproic Acid For Synthesis

LABCHEM

Assay.....98% min.

Density 20°C..... 0.926 – 0.928

Pack Size: 500mL

Carbamide (See Urea Page 474 )

## Carbazole

CAS 86-74-8

C<sub>12</sub>H<sub>9</sub>N = 167.21

### 2696 Carbazole

LABCHEM

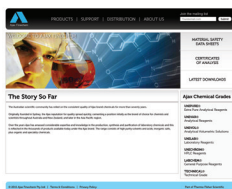
Description: Beige-coloured crystalline powder

Assay.....95% min.

Pack size: 100g

Carbinol (See Methanol Page 284 )

Carbitol (See Ethyldigol Page 197 )



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

## Carbol Fuchsin

CAS 4197-24-4

U.N Number.....2928

ADG Class.....6.1

SUB.....8

Packing Group.....II



### 3187 Carbol Fuchsin

LABCHEM

**Description:** Dark, olive green crystalline powder  
**Solubility:** Soluble in water, slightly soluble in alcohol.

**Pack size:** 5G

### 1822 Carbol Fuchsin, Dilute Stain

LABCHEM

Contains Basic Fuchsin 0.1%

**Pack Size:** 1L, 5L

Carbonyldiamide (See Urea Page 474 )

## Carmine (CI 75470)

CAS 1390-65-4

### 3188 Carmine (CI 75470)

LABCHEM

**Description:** Dark reddish coarse powder  
**Solubility:** Soluble in water and concentrated Sulphuric acid. Slightly soluble in ether, and practically insoluble in petroleum ether, benzene, and chloroform.

Assay (as Carminic acid).....42.0% min

Colour change (1% aqueous solution): Yellow in acid  
 Red in alkali

**Pack size:** 25g

## Carminic Acid

CAS 1260-17-9

**Synonym:** Natural red 4

$C_{22}H_{20}O_{13}$  =492.40

U.N Number.....3147

ADG Class.....8

Packing Group.....III



### 3292 Carminic Acid For Microscopy C.I. 75470

LABCHEM

Assay.....(by Acidimetry, on dried substance)98% min.  
 L.O.D. @ 105°C.....7% max.  
 Suitability for microscopy.....To pass test

**Pack Size:** 1g

## Catechol

CAS 120-80-9

Synonym: 1,2-Dihydroxybenzene

$C_6H_4(OH)_2 = 110.11$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



### 1740 Catechol

UNILAB

Description: Light Sensitive.

Assay.....(titration) 99% min.

M.P. ....104 - 106°C

Pack Size: 100g

Caustic Antimony (See Antimony Trichloride Page 68 )

Caustic Potash (See Potassium Hydroxide Pellets Page 354 )

Caustic Soda (See Sodium Hydroxide Mini Pearl Page 410 )

## Cedarwood Oil

### 3190 Cedarwood Oil, Thick For Immersion Lenses

LABCHEM

For immersion lenses.

Pack Size: 100mL

## Celestine Blue

CAS 1562-90-9

$C_{17}H_{18}ClN_3O_4 = 363.8$

### 3191 Celestine Blue

LABCHEM

Description: greenish-black powder

Dye content 70.0% min.

Pack size: 25g

## Cellobiose

CAS 528-50-7

$C_{12}H_{22}O_{11} = 342.30$

### 3037 Cellobiose For Biochemistry Substrate for glucosidase

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

H<sub>2</sub>O..... 0.5

Pack Size: 5g

Cellulose(See Cellulose Microcrystalline Page 131 )

## Cellulose Acetate

CAS 9004-35-7

Synonym: Acetylcellulose

### 972 Cellulose Acetate LABCHEM

Acetic Acid Content.....53.5 – 56%

Pack Size: 500g

**Cellosolve** (See 2-Ethoxyethanol Page 195 )

## Cellulose Microcrystalline

CAS 9004-34-6

Synonyms: Cellulose, Cotton linters

 $(C_6H_{10}O_5)_n$ 

### 357 Cellulose Microcrystalline For Thin Layer Chromatography LABCHEM

Equivalent Avicel

Pack Size: 500g

## Ceric Oxide

CAS 1306-38-3

Synonym: Cerium (IV) Oxide

 $CeO_2 = 172.11$ 

### 806 Ceric Oxide UNILAB

Assay.....99.95% min.

Maximum limit of impurities(%)

Other rare earths (as Oxide). . . . . 0.05

Pack Size: 100g

## Cerium(III) Nitrate

CAS 10108-73-3

 $Ce(NO_3)_3 \cdot 6H_2O = 434.23$ 

### 974 Cerium(III) Nitrate LABCHEM

Pack Size: 100g

**Cerium (IV) Oxide** (See Ceric Oxide Page 131 )

## Cerium (III) Sulphate

CAS 13454-94-9  
 $\text{Ce}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O} = 712.55$

### 1288 Cerium (III) Sulphate

LABCHEM

Pack Size: 500g

## Cerium(IV) Sulphate

CAS 10294-42-5  
 $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O} = 404.31$

### 973 Cerium(IV) Sulphate

UNIVAR

Assay.....98% min.

Maximum limit of impurities(%)

Insol.in Dil. $\text{H}_2\text{SO}_4$ ..... 0.01

Cu..... 0.001

Pb..... 0.001

Fe..... 0.001

Cl..... 0.001

$\text{PO}_4$ ..... 0.01

Pack Size: 100g

## Cetrimide

CAS 8044-71-1  
 $\text{CH}_3(\text{CH}_2)_n\text{N}(\text{CH}_3)_3\text{Br}$ : where  $n=13$ , mol.wt = 336.4

### 2381 Cetrimide

UNILAB

**Description:** white to creamy-white, voluminous, free flowing powder; odour slight & characteristic. Consists chiefly of  $n=13$ , & small amounts  $n=11$  &  $15$

Assay (as  $n=13$ ).....about 96.0%

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test

L.O.D..... 2.0

Sulph. ash..... 0.5

Acidity or alkalinity..... 1 mmol H or OH

Non-quaternary amines..... To pass test

Pack Size: 500g

## Cetylpyridinium Chloride

CAS 6004-24-6  
 $\text{CH}_3(\text{CH}_2)_{15}\text{C}_5\text{H}_5\text{NCl} \cdot \text{H}_2\text{O} = 358.01$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....I



### 145 Cetylpyridinium Chloride

UNILAB

**Description:** A white, unctuous powder.

Assay.....96.0 - 101.0%

Water.....4.5-5.5%

Pack Size: 100g



## Cetyltrimethylammonium Bromide

CAS 57-09-0  
 $\text{CH}_3(\text{CH}_2)_{15}\text{N}(\text{CH}_3)_3\text{Br} = 364.46$

### 147 Cetyltrimethylammonium Bromide UNILAB

Assay(ex.Br).....98% min.

Pack Size: 100g, 500g, 5kg

## Charcoal Activated Granular

CAS 16291-96-6

U.N Number.....1362

ADG Class.....4.2

Packing Group.....III



### 976 Charcoal Activated Granular TECHNICAL

Used widely for removing chlorine from water (prior to ion exchange), decolourization of solvents etc. Particle size 87% greater than 1mm. Apparent density 260gm/L (varies)

Maximum limit of impurities(%)

Ash..... 6

Pack Size: 500g, 3kg

## Charcoal Activated

CAS 16291-96-6

U.N Number.....1362

ADG Class.....4.2

Packing Group.....III



### 977 Charcoal Activated TECHNICAL

**Description:** High efficiency activated carbon.

Maximum limit of impurities(%)

Iron..... 0.1

Cl..... 0.2

Ash..... 8

H<sub>2</sub>O..... 10

Pack Size: 500g, 3kg

## Ches, Biological Buffer

CAS 103-47-9  
 $\text{C}_8\text{H}_{17}\text{NO}_3\text{S} = 207.3$

### 3433 Ches, Biological Buffer UNIVAR

**Description:** White powder

Solubility (5% in H<sub>2</sub>O): Clear and complete

Assay.....99.0% min.

pKa.....9.3 – 9.7

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 100g, 1kg

**Chile Saltpetre** (See Sodium Nitrate Page 416 )

**China Blue** (See Aniline Blue Water Soluble C.I.42755 Page 63 )

**China Green** (See Malachite Green (CI 42000 ) Page 268 )

## Chloral Hydrate

CAS 302-17-0  
 $\text{CCl}_3\text{CH}(\text{OH})_2 = 165.40$

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....II



148

### Chloral Hydrate

UNILAB

**Description:** colourless transparent crystals; odour, pungent.

Assay.....98.5 - 101.0%  
Acidity (pH 10% soln).....3.5 - 5.5

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test  
Non-vol.....0.1  
Chloral alcoholate.....To pass test

Cl.....0.0100  
H.M.(as Pb).....0.002

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

## Chloramine T

CAS 127-65-1  
 $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa}\cdot 3\text{H}_2\text{O} = 281.69$

U.N Number.....3263  
ADG Class.....8  
Packing Group.....III



859

### Chloramine T

LABCHEM

Reagent for iodide.

Assay.....98 -103%  
pH.....8.0 - 10.0

Maximum limit of impurities(%)

Appearance of solution.....To pass test  
Insoluble matter in water.....To pass test

Insoluble matter in Ethanol.....1.5

Store below 4°C (refrigerate)

Pack Size: 500g, 25Kg

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.

Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Chloroacetic Acid

CAS 79-11-8  
 $C_2H_3ClO_2 = 94.5$

U.N Number.....1751  
 ADG Class.....6.1  
 SUB.....8  
 Packing Group.....II



650

### Chloroacetic Acid

UNIVAR

**Description:** White crystalline powder  
 Assay 99.0% min.

Maximum limit of impurities(%)

Fe..... 0.002  
 H.M (as Pb)..... 0.001  
 Insoluble matter..... 0.01  
 R.A.I..... 0.02

Cl..... 0.01  
 $SO_4$ ..... 0.02  
 Substances darkened by  $H_2SO_4$ ..... To pass test

Pack size: 100g

## Chloroacetyl Chloride

CAS 79-04-9  
 $C_2H_2Cl_2O = 112.94$

U.N Number.....1752  
 ADG Class.....6.1  
 Packing Group.....I



150

### Chloroacetyl Chloride For Synthesis

UNILAB

Assay.....98% min.  
 Density @ 20°C.....1.417 - 1.420

Pack Size: 500 mL

## 4-Chloroaniline

CAS 106-47-8  
 $C_6H_6ClN = 127.57$

U.N Number.....2018  
 ADG Class.....6.1  
 Packing Group.....II



4625

### 4-Chloroaniline

UNILAB

**Description:** Black shining crystals

Assay.....98.0% min.  
 Melting Point.....68 - 72°C

Pack size: 250g

561

### 4-Chloroaniline For Synthesis

LABCHEM

Assay.....98% min.  
 M.P. ....69 - 72°C

Pack Size: 500g

## Chloranillic Acid

CAS 87-88-7  
 $C_6H_2Cl_2O_4 = 208.98$

### 347 Chloranillic Acid

UNIVAR

Assay(T).....99% min.  
M.P.....282 -284°C

Maximum limit of impurities(%)  
Fe..... 0.001  
 $H_2O$ ..... 0.5  
Sulphated ash..... 0.1

Pack Size: 25g

Chloranillic Acid Barium Salt (See Barium Chloranilate Page 77 )

## p-Chlorobenzaldehyde

CAS 104-88-1  
 $C_7H_5ClO = 140.6$

U.N Number.....3082  
ADG Class.....9  
Packing Group.....III



### 1654 p-Chlorobenzaldehyde

UNILAB

Description: Off-white coloured, fine crystalline powder  
Assay.....98.0% min.

Pack size: 100g

## Chlorobenzene

CAS 108-90-7  
 $C_6H_5Cl = 112.56$

U.N Number.....1134  
ADG Class.....3  
Packing Group.....III



### 151 Chlorobenzene

UNILAB

Assay(GLC).....99.5% min.  
Colour (APHA).....10 max.

Maximum limit of impurities(%)  
Water..... 0.01

Pack Size: 2.5L, 20L

4-Chlorobenzeneamine (See 4-Chloroaniline Page 135 )

M-Chloronitrobenzene (See 1-Chloro-3 Nitrobenzene Page 140 )

## 1-Chlorobutane

CAS 109-69-3  
 $\text{CH}_3(\text{CH}_2)_3\text{Cl} = 92.57$

**116**

### 1-Chlorobutane

UNILAB

Density.....about 0.88g/mL.  
 R.I.....about 1.401  
 Assay.....99% min.

Pack Size: 500ml

## 1-Chloro-2,4-Dinitrobenzene

CAS 97-00-7  
 $\text{C}_6\text{H}_3\text{ClN}_2\text{O}_4 = 202.55$

U.N Number.....1577  
 ADG Class.....6.1  
 Packing Group.....II



**978**

### 1-Chloro-2,4-Dinitrobenzene

UNIVAR

**Description:** Yellow crystals  
 Assay.....99.0% min.

Maximum limit of impurities(%)  
 Sulphated ash..... 0.02

Pack size: 100g

## 2-Chloroethanol

CAS 107-07-3  
**Synonym:** Ethylene Chlorhydrin  
 $\text{C}_2\text{H}_5\text{ClO} = 80.51$

U.N Number.....1135  
 ADG Class.....6.1  
 SUB.....3  
 Packing Group.....I



**555**

### 2-Chloroethanol

UNIVAR

Assay.....99.5% min.

Maximum limit of impurities(%)

$\text{H}_2\text{O}$ ..... 0.1  
 R.O.E..... 0.001  
 Fe..... 0.0001  
 Cu..... 0.00001  
 Co..... 0.00001

Ni..... 0.00001  
 Pb..... 0.00001  
 Cd..... 0.00001  
 Zn..... 0.00001

Pack Size: 500mL

# Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

**Cat-No**    **Pack Size**  
**8745**      500g, 1kg, 3kg, 5kg, 25kg

# Chloroform

CAS 67-66-3  
CHCl<sub>3</sub> = 119.38

U.N Number.....1888  
ADG Class.....6.1  
Packing Group.....III



## 2318 Chloroform

UNICHROM

**Description:** clear liquid with a characteristic odour. Stabilized with about 0.005% amylene.

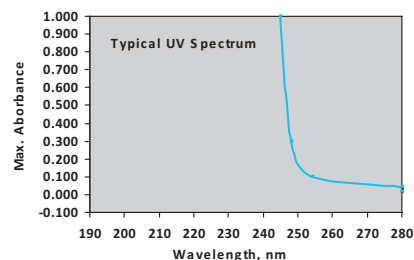
Assay (GLC).....>99.5%  
R.I. ....1.446

Maximum limit of impurities(%)

Non-vol.....0.001  
Acidity(as HCl).....0.001  
H<sub>2</sub>O (by K.F.).....0.05

**UV Absorbance:**

λ(nm)	245	254	280
Max. abs.	1.00	0.25	0.02



**Suggested Applications:**

Specialty purified grade filtered through 0.45 micron filter for HPLC.

**Pack Size:** 2.5L

## 810 Chloroform

SPECTROSOL

**Description:** clear liquid; characteristic odour.

For U.V. spectroscopy.

Density @25°C.....about 1.472g/mL  
Assay.....99.8% min.  
Colour (APHA).....10 max.  
Preservative Amylene

Maximum limit of impurities(%)

R.A.E.....0.001  
Acid & Cl.....To pass test  
Free chlorine (as Cl).....To pass test  
Pb.....0.000005

Acetone & aldehydes.....0.005  
(as (CH<sub>3</sub>)<sub>2</sub>CO)  
Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test  
Suitability for dithizone test.....To pass test

**U.V. Absorbance:**

λ(nm)	245	255	260	270	290-400
Max. abs.	1.00	0.25	0.15	0.05	0.01

Conforms to ACS

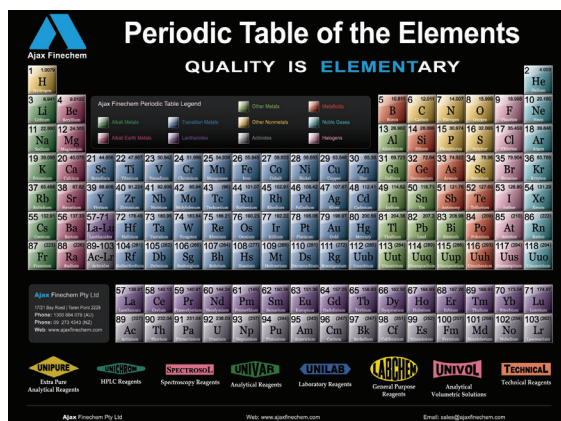
**Pack Size:** 2.5L

# Ajax Finechem Periodic Table

The latest edition of the Ajax Finechem Periodic Table of the Elements is now available.

The slick and colourful Periodic Table of the Elements poster will be a welcome addition to your laboratory.

To request your copy simply visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) complete the "literature request"-form or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com) and a FREE Ajax Finechem Periodic Table will be delivered to you promptly.



152

**Chloroform**

UNIVAR

**Description:** a clear liquid with a characteristic odour.  
 Density @ 25°C.....about 1.472g/mL  
 Assay.....99.8% min.  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.E..... 0.001  
 Acetone & aldehyde as (CH<sub>3</sub>)<sub>2</sub>CO..... 0.005  
 Acid & chloride..... To pass test  
 Free chloride (Cl)..... To pass test  
 Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test  
 Al..... 0.00005  
 Na..... 0.00005  
 Ba..... 0.00001  
 Ca..... 0.00001  
 Fe..... 0.00001  
 Mg..... 0.00001  
 K..... 0.00001

Cd..... 0.000005  
 Pb..... 0.000005  
 Mn..... 0.000002  
 Ni..... 0.000002  
 Sr..... 0.000002  
 Cr..... 0.000002  
 Co..... 0.000002  
 Cu..... 0.000002  
 Mo..... 0.000001  
 As..... 0.000001  
 Zn..... 0.0001

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 200L

153

**Chloroform**

UNILAB

**Description:** colourless, volatile liquid; odour, characteristic.  
 B.R.(95%).....60 – 62°C  
 Density (@20°C).....1.474 – 1.479 g/mL

Maximum limit of impurities(%)

Non-volatile matter..... 0.003% max.  
 Acidity or alkalinity..... To pass test  
 Aldehydes..... To pass test  
 Related substances (total).....To pass test

Free chlorine.....To pass test  
 Foreign chlorine comps..... To pass test  
 Chloride..... To pass test  
 Ethanol..... 1-2%

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L, 290kg

**4-Chloro-m-Cresol**

CAS 59-50-7  
 C<sub>6</sub>H<sub>3</sub>Cl(CH<sub>3</sub>)OH = 142.59

U.N Number.....2669  
 ADG Class.....6  
 Packing Group.....II



2348

**4-Chloro-m-Cresol**

LABCHEM

M.P.(diamorphous).....55.5° and 66°C

Pack Size: 250g, 5kg

**4-Chloro-3-Methylphenol** (See 4-Chloro-M-Cresol Page 139 )

## 2-Chloro-2-Methylpropane

CAS 507-20-0  
(CH<sub>3</sub>)<sub>3</sub>CCl = 92.57

U.N Number.....1127  
ADG Class.....3  
Packing Group.....II



### 118 2-Chloro-2-Methylpropane

UNILAB

Pack Size: 500g, 5kg  
Density.....about 0.84 g/mL  
R.I. ....about 1.385  
Assay(GC).....99% min.

Pack Size: 500mL

## 1-Chloro-2 Nitrobenzene

CAS 88-73-3  
C<sub>6</sub>H<sub>4</sub>ClNO<sub>2</sub> =157.55

U.N Number.....1578  
ADG Class.....6.1  
Packing Group.....II



### 554 1-Chloro-2 Nitrobenzene

LABCHEM

Assay (GC).....99% min.  
M.P. ....31 – 33°C

Pack Size: 500g

## 1-Chloro-3 Nitrobenzene

CAS 121-73-3  
Synonyms: m-Chloronitrobenzene  
C<sub>6</sub>H<sub>4</sub>ClNO<sub>2</sub> =157.55

U.N Number.....1578  
ADG Class.....6.1  
Packing Group.....II



### 336 1-Chloro-3 Nitrobenzene For Synthesis

LABCHEM

Assay (GC).....>99%  
M.P. ....43 – 46°C

Pack Size: 500g

## 1-Chloro-4-Nitrobenzene

CAS 100-00-5  
C<sub>6</sub>H<sub>4</sub>ClNO<sub>2</sub> =157.55

U.N Number.....1578  
ADG Class.....6.1  
Packing Group.....II



### 337 1-Chloro-4-Nitrobenzene

LABCHEM

Assay (GC).....99% min.  
M.P. ....80 – 84°C

Pack Size: 500g



## 4-Chlorophenol

CAS 106-48-9  
 $\text{Cl.C}_6\text{H}_4.\text{OH} = 128.56$

U.N Number.....2020  
 ADG Class.....6.1  
 Packing Group.....III



**117**

### 4-Chlorophenol

LABCHEM

Assay.....98% min.  
 M.P. ....41– 45°C

Pack Size: 500g

## Chlorophenol Red

CAS 4430-20-0  
 $\text{C}_{19}\text{H}_{12}\text{Cl}_2\text{O}_5\text{S} = 423.3$

**3158**

### Chlorophenol Red

LABCHEM

Appearance: Black with green lustre.  
 Reaction: pH range.....4.8 (yellow) – 6.4 (red)  
 L.O.D : .....8.0%

Pack size: 25g

## Chloroplatinic Acid

CAS 16941-12-1  
 $\text{H}_2\text{PtCl}_6.6\text{H}_2\text{O} = 517.90$

U.N Number.....2507  
 ADG Class.....8  
 Packing Group.....III



**740**

### Chloroplatinic Acid

UNIVAR

Reagent for potassium.  
 Assay(as Pt).....37.50% min.

Maximum limit of impurities(%)  
 Alkalis & other salts (as  $\text{SO}_4$ )..... 0.05  
 Solubility (in alcohol)..... To pass test

Pack Size: 1g

## Chlorosulphonic Acid

CAS 7790-94-5  
**Synonym:** Chlorosulfonic Acid  
 $\text{HClO}_3\text{S} = 116.52$

U.N Number.....1754  
 ADG Class.....8  
 Packing Group.....I



**979**

### Chlorosulphonic Acid

UNILAB

Assay (by acidimetry).....>97%  
 Density @ 20°C.....1.740 – 1.753  
 Decomposes in water Corrosive, Irritant

Pack Size: 500 mL

Chlorotrimethylsilane (See Trimethylchlorosilane Page 461 )

## Cholesterol

CAS 57-88-5  
 $C_{27}H_{46}O = 386.67$

### 1729 Cholesterol

LABCHEM

Assay.....95% min.

Pack Size: 100g, 1kg

## Cholic Acid

CAS 81-25-4  
 $C_{24}H_{40}O_5 = 408.58$

### 115 Cholic Acid For Biochemistry

LABCHEM

Assay (by acidimetry).....98 - 101%  
M.P. ....196 - 202°C

Maximum limit of impurities(%)

Cl. .... 0.002

Desoxycholic Acid..... 0.5

Pack Size: 25g

## Choline Chloride

CAS 67-48-1  
 $C_5H_{14}ClNO = 139.6$

### 3039 Choline Chloride

UNIVAR

Appearance: white crystalline powder

Assay.....99.0%

Maximum limit of impurities(%)

Fe. .... 0.0005

SO<sub>4</sub>..... 0.005

H.M (as Pb)..... 0.0005

Cd..... 0.0005

Pack size: 100g

**Chrome Alum** (See Chromium (III) Potassium Sulphate Page 144 )

## Chromeazurol S C.I. 43825

CAS 1667-99-8  
 $C_{23}H_{13}Cl_2Na_3O_9S = 605.28$

### 335 Chromeazurol S C.I. 43825

LABCHEM

Metal (pM) indicator for  
determination of Fluoride

Pack Size: 10g

**Chromic Acid** (See Chromium Trioxide Page 145 )

**Chromic Anhydride** (See Chromium Trioxide Page 145 )

## Chromium 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2630 Chromium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Chromium standard, ready for use.  
 Cr in 0.5% Nitric acid.

Pack Size: 100mL

## Chromium AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2632 Chromium AAS Standard

SPECTROSOL

A 1000 ppm Chromium standard, ready for use.  
 Each mL contains 1.00+/-0.005mg of Cr in 0.5% Nitric Acid

Pack Size: 500mL

## Chromium(III) Chloride

CAS 10060-12-5  
 $\text{CrCl}_3 \cdot 6\text{H}_2\text{O} = 266.45$

### 826 Chromium(III) Chloride

UNIVAR

**Description:** dark green deliquescent crystals.

Assay.....97.0% min.  
 pH(5% soln).....2.9 min

Maximum limit of impurities(%)

Insol.....	0.003	Fe.....	0.02
SO <sub>4</sub> .....	0.03	K.....	0.005
Al.....	0.025	NH <sub>4</sub> .....	0.01
Ca.....	0.005	Na.....	0.02

Pack Size: 100g, 500g

### 981 Chromium(III) Chloride

UNILAB

Assay.....96% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.05	Fe.....	0.03
-----------------------	------	---------	------

Pack Size: 500g

## Chromium(III) Nitrate

CAS 7789-02-8  
 $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 400.15$

U.N Number.....2720  
ADG Class.....5.1  
Packing Group.....III



### 2478 Chromium(III) Nitrate

UNILAB

Assay.....96% min.

Maximum limit of impurities(%)

Cl.....0.003  
SO<sub>4</sub>.....0.03

Fe.....0.1  
NH<sub>4</sub>.....0.005

Low melting substance. Store below 25°C

Pack Size: 250g

## Chromium (III) Oxide Green

CAS 1308-38-9  
 $\text{Cr}_2\text{O}_3 = 151.99$

### 114 Chromium (III) Oxide Green Anhydrous

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Substances soluble in water.....0.3  
Cl.....0.01  
SO<sub>4</sub>.....0.01

H.M. (as Pb).....0.002  
Fe.....0.02

Pack Size: 500g

## Chromium (III) Potassium Sulphate

CAS 7788-99-0  
 $\text{KCr}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O} = 499.39$

### 155 Chromium (III) Potassium Sulphate Dodecahydrate

UNIVAR

Assay (by iodometry).....99% min.

Maximum limit of impurities(%)

Substances soluble in water.....0.01  
Cl.....0.002  
Pb.....0.005  
Cu.....0.001

Ni.....0.001  
Fe.....0.01  
Al.....0.005  
NH<sub>4</sub>.....0.01

Pack Size: 500g

### 156 Chromium (III) Potassium Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....0.04  
Fe.....0.05

NH<sub>4</sub>.....0.1  
H.M.(as Pb).....0.01

Pack Size: 500g, 25kg

**Chromic Sulphate** (See Chromium (III) Sulphate Basic Page 145 )

## Chromium (III) Sulphate Basic

CAS 39380-78-4  
**Synonym:** chromic Sulphate  
 Approx.  $\text{Cr}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$

U.N Number.....2811  
 ADG Class.....6.1  
 Packing Group.....III



### 1501 Chromium (III) Sulphate Basic

UNILAB

Chromium (Cr).....20.5 – 21.5%

Maximum limit of impurities(%)

Cl.....	0.005	K.....	0.02
Fe.....	0.1	Na.....	0.05

Pack Size: 500g

## Chromium Trioxide

CAS 1333-82-0  
 $\text{CrO}_3 = 99.99$

U.N Number.....1463  
 ADG Class.....5.1  
 SUB.....8  
 Packing Group.....II



### 157 Chromium Trioxide

UNIVAR

Description: dark red crystals or flakes; deliquescent.  
 Assay.....98.0% min.

Maximum limit of impurities(%)

Insol.....	0.01	Al.....	0.03
Cl.....	0.005	Ba.....	0.03
$\text{NO}_3$ .....	0.05	Fe.....	0.03
$\text{SO}_4$ .....	0.005	Na.....	0.2

Pack Size: 500g, 5kg

### 158 Chromium Trioxide

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

$\text{SO}_4$ .....	0.1		
Fe.....	0.05	Na.....	0.3

Pack Size: 500g

### 1333 Chromium Trioxide

TECHNICAL

Pack Size: 500g

## Chromotrope 2R (C.I. 16570)

CAS 4197-07-3  
 $\text{C}_{16}\text{H}_{10}\text{N}_2\text{Na}_2\text{O}_8\text{S}_2 = 468.4$

### 3193 Chromotrope 2R (C.I. 16570)

LABCHEM

Appearance: Dark brown, coarse powder  
 Dye content: 85.0% min.  
 Absorption maximum: 530 – 510nm

Pack size: 25g

## Chromotropic Acid Sodium Salt

CAS 129-96-4

$C_{10}H_7NaO_8S_2 = 342.27$

### 982 Chromotropic Acid Sodium Salt

LABCHEM

Reagent for formaldehyde.  
Sensitivity to HCHO 1 in 50000 minimum  
Appearance: Grey-brown crystals.  
Assay (titration) about 60%.

Pack Size: 25g

## Cineole

CAS 470-82-6

$C_{10}H_{18}O = 154.25$

U.N Number.....1993

ADG Class.....3

Packing Group.....III



### 983 Cineole

UNILAB

Suitable for o-cresol determination.  
Density.....about 0.92g/mL  
R.I .....1.457-1.459  
Assay.....98% min.  
Freezing Point.....0 – 1.5°C

Maximum limit of impurities(%)

Aldehydes..... To pass test  
Phellandrene..... To pass test

Pack Size: 100mL

## Cinnamaldehyde

CAS 104-55-2

$C_9H_8O = 132.16$

### 984 Cinnamaldehyde

UNILAB

Appearance: Yellowish oily liquid having strong odour of cinnamon  
Assay.....98.% min.

Pack size: 500mL

## Cinnamic Acid

CAS 621-82-9

$C_6H_5CH:CHCOOH = 148.16$

### 985 Cinnamic Acid

UNILAB

Assay.....98.5% min.  
M.P. ....132-136°C

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Pack Size: 500g

## Citric Acid

CAS 5949-29-1

$\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2 \cdot \text{H}_2\text{O} = 210.14$

### 160 Citric Acid UNIVAR

**Description:** colourless crystals.

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.02

$\text{C}_2\text{O}_4$ ..... 0.05

Cl..... 0.001

$\text{PO}_4$ ..... 0.001

$\text{SO}_4$ ..... 0.002

Fe..... 0.0003

Pb..... 0.0002

Subs. carb. by hot  $\text{H}_2\text{SO}_4$ ..... passes test

Conforms to ACS

**Pack Size:** 500g, 1kg, 5kg, 25kg

### 161 Citric Acid, Monohydrate, low in lead UNIVAR

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.02

$\text{C}_2\text{O}_4$ ..... 0.05

Cl..... 0.001

$\text{PO}_4$ ..... 0.001

$\text{SO}_4$ ..... 0.002

Fe..... 0.0003

Pb..... 0.00005

Subs. carb. by hot  $\text{H}_2\text{SO}_4$ ..... To pass test

Conforms to ACS

**Pack Size:** 500g

### 162 Citric Acid, Monohydrate UNILAB

**Description:** colourless crystals or white crystalline powder;efflorescent.

Assay.....99.5 - 101.0%

$\text{H}_2\text{O}$ .....7.5 - 9.0%

Maximum limit of impurities(%)

Sulph. ash..... 0.1

$\text{SO}_4$ ..... 0.0150

H.M. (as Pb)..... 0.0010

$\text{C}_2\text{O}_4\text{H}_2$ ..... 0.0360

Readily carb. subs..... To pass test

Appearance of solution..... To pass test

Chemical and physical parameters conform to BP

**Pack Size:** 500g, 5kg, 25kg

### 911 Citric Acid, Monohydrate LABCHEM

**Description:** colourless crystals or white crystalline powder;efflorescent.

Assay.....98.0% min.

$\text{H}_2\text{O}$ .....9.0% max.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.01

**Pack Size:** 500gz

## L-Citrulline

CAS 372-75-8  
 $C_6H_{13}N_3O_3 = 175.19$

### 5890 L-Citrulline

UNILAB

Appearance: White crystalline powder  
Assay.....99.% min.

Maximum limit of impurities(%)  
L.O.D..... 0.3

Pack size: 25g

## Clove Oil

CAS 8000-34-8

### 3194 Clove Oil

OP

Appearance: Colourless to pale yellow liquid  
Density.....1.04g/mL

Pack size: 100g

## Coatasil

U.N Number.....3032  
ADG Class.....9  
Packing Group.....III



### 2293 Coatasil, glass treatment solution

LABCHEM

2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane

Pack Size: 500mL

## Cobalt 1000ppm Single Element ICP Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2666 Cobalt 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Cobalt standard, ready for use.  
Co in 0.5% Nitric acid.

Pack Size: 100mL



## Cobalt AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2633 Cobalt AAS Standard

SPECTROSOL

A 1000 ppm Cobalt standard, ready for use.  
 Each mL contains 1.00+/-0.005mg of Co in 0.5% Nitric Acid

Pack Size: 500mL

## Cobalt(II) Acetate

CAS 6147-53-1  
 $(CH_3COO)_2Co \cdot 4H_2O = 249.09$

### 1334 Cobalt(II) Acetate

TECHNICAL

Assay.....97% min.

Pack Size: 500g

## Cobalt(II) Chloride

CAS 7791-13-1  
 $CoCl_2 \cdot 6H_2O = 237.93$

U.N Number.....3077  
 ADG Class.....9  
 Packing Group.....III



### 986 Cobalt(II) Chloride

UNIVAR

**Description:** dark red crystals or crystalline powder.  
 Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol.....	0.01	Fe.....	0.001
NO <sub>3</sub> .....	0.01	Mg.....	0.005
SO <sub>4</sub> .....	0.005	Ni.....	0.1
NH <sub>4</sub> .....	0.005	K.....	0.01
Ca.....	0.005	Na.....	0.05
Cu.....	0.002	Zn.....	0.001

Conforms to ACS

Pack Size: 100g, 500g

### 163 Cobalt(II) Chloride

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Fe.....	0.025	Mg.....	0.008
Ni.....	0.12	Mn.....	0.055
Pb.....	0.005		

Pack Size: 100g, 500g, 5kg

**1335 Cobalt(II) Chloride**

TECHNICAL

Pack Size: 500g

**Cobalt(II) Nitrate**CAS 10141-05-6  
Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O = 291.03U.N Number.....1477  
ADG Class.....5.1  
Packing Group.....II**164 Cobalt(II) Nitrate**

UNIVAR

**Description:** red deliquescent crystals.

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol.....	0.01	Ni.....	0.15
Cl.....	0.002	Ca.....	0.005
SO <sub>4</sub> .....	0.005	Mn.....	0.005
Cu.....	0.002	Na.....	0.05
Pb.....	0.002	K.....	0.01
Fe.....	0.001	Mg.....	0.005
NH <sub>4</sub> .....	0.2	Zn.....	0.01

Conforms to ACS

Pack Size: 100g, 500g

**165 Cobalt(II) Nitrate**

UNILAB

Assay.....96.0% min.

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.01
SO <sub>4</sub> .....	0.03	Ni.....	0.3

Pack Size: 100g

**Cobalt (II) Oxide**CAS 1308-06-01  
Co<sub>3</sub>O<sub>4</sub> =240.80**557 Cobalt (II) Oxide For determination of Sulphur**

UNILAB

Assay ( by complexometry Co).....71% min.

Maximum limit of impurities(%)

Total Sulphur.....	0.001	Fe.....	0.01
Pb.....	0.001		

Pack Size: 100g

# Coatasil

**Glass Treatment Solution**

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Cobalt(II) Sulphate

CAS 10124-43-3  
 $\text{CoSO}_4 \cdot 7\text{H}_2\text{O} = 281.10$

U.N Number.....3077  
 ADG Class.....9  
 Packing Group.....III



988

### Cobalt(II) Sulphate

UNIVAR

**Description:** red crystals or crystalline powder.

Assay.....99.0% min.  
 pH.....(5% Soln.) 3.0 min

Maximum limit of impurities(%)

Insol.....	0.005	K.....	0.005
Cl.....	0.001	Mg.....	0.01
N cpds (as N).....	0.002	Na.....	0.01
Ca.....	0.005	Ni.....	0.005
Cu.....	0.001	Pb.....	0.001
Fe.....	0.0005	Zn.....	0.005

Pack Size: 100g, 3kg

1336

### Cobalt(II) Sulphate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Cl.....	0.05	Pb.....	0.005
Fe.....	0.005	Zn.....	0.01
Ni.....	0.1		

Pack Size: 500g

## Colchicine

CAS 64-86-8  
 $\text{C}_{22}\text{H}_{25}\text{NO}_6 = 399.44$

U.N Number.....1544  
 ADG Class.....6.1  
 Packing Group.....I



2452

### Colchicine (Inhibitor of microtubules by specific binding tubilin Used in research in plant genetics for doubling chromosomes)

LABCHEM

Assay.....98.5% min.

Maximum limit of impurities(%)

$\text{H}_2\text{O}$  (KF).....1

Pack Size: 1g, 10g

## Congo Red (CI 22120)

CAS 573-58-0  
 $\text{C}_{32}\text{H}_{22}\text{N}_6\text{Na}_2\text{O}_6\text{S}_2 = 696.68$

2353

### Congo Red (CI 22120)

LABCHEM

Adsorption & pH indicator.

Pack Size: 25g

## Coomassie Brilliant Blue R250 (CI 42660)

CAS 6104-59-2

### 3195 Coomassie Brilliant Blue R250 (CI 42660)

OP

Stain for microscopy. Can be used as a protein stain in electrophoresis.

Pack Size: 25g

## Copper 1000ppm Single Element ICP Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2636 Copper 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Copper standard, ready for use.  
Cu in 0.5% Nitric acid.

Pack Size: 100mL

## Copper AAS Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2602 Copper AAS Standard

SPECTROSOL

A 1000 ppm Copper standard, ready for use.  
Each mL contains 1.00mg+/-0.005mg of Cu in 0.5% Nitric acid.

Pack Size: 500mL

## Copper

CAS 7440-50-8  
Cu = 63.54

### 3041 Copper, foil

UNIVAR

Description: bright reddish metal. 0.1 mm thick.  
Assay.....99.8% min.

Maximum limit of impurities(%)

As.....	0.0002	Mn.....	0.005
Pb.....	0.05	Sb.....	0.005
Fe.....	0.005	Sn.....	0.005

Pack Size: 250g

### 1588 Copper Foil

TECHNICAL

Pack Size: 500g

## Copper (METAL) Powder

### 452 Copper (METAL) Powder Electrolytic 99.5% UNIVAR

Assay (iodometric).....99.5% min.

Maximum limit of impurities(%)

Substances insoluble in HNO <sub>3</sub> .....	0.05	Fe.....	0.005
Sb.....	0.005	Mn.....	0.005
As.....	0.0002	Ag.....	0.005
Pb.....	0.05	Sn.....	0.005

Pack Size: 500g

### 1738 Copper Turnings TECHNICAL

Pack Size: 500g

## Copper(II) Acetate

CAS 142-71-2  
(CH<sub>3</sub>COO)<sub>2</sub>Cu.H<sub>2</sub>O = 199.65

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



### 860 Copper(II) Acetate UNIVAR

Description: dark green transparent crystals, or crystalline powder.

Assay.....98.0 - 102.0%  
pH (5% soln.).....5.0-5.5

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.005
Cl.....	0.003	Ni.....	0.01
SO <sub>4</sub> .....	0.01	K.....	0.01
Fe.....	0.002	Na.....	0.1

Pack Size: 500g

### 999 Copper(II) Acetate UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.01
SO <sub>4</sub> .....	0.04		

Pack Size: 500g

## Copper(II) Carbonate Basic

CAS 12069-69-1  
Approx. CuCO<sub>3</sub>.Cu(OH)<sub>2</sub>.H<sub>2</sub>O

### 1003 Copper(II) Carbonate Basic UNILAB

Assay(as Cu).....54 - 57%

Maximum limit of impurities(%)

Cl.....	0.01	Na.....	0.5
SO <sub>4</sub> .....	0.05	Zn.....	0.05
Fe.....	0.02	Ni.....	0.1
Pb.....	0.005		

Pack Size: 100g, 500g

## Copper(I) Chloride

CAS 7758-89-6  
CuCl = 99.00

U.N Number.....2802  
ADG Class.....8  
Packing Group.....III



### 173 Copper(I) Chloride

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Substances not precipitated by H<sub>2</sub>SO<sub>4</sub>..... 2

SO<sub>4</sub>..... 0.05

Fe..... 0.02

Pack Size: 500g

## Copper(II) Chloride

CAS 10125-13-0  
CuCl<sub>2</sub>·2H<sub>2</sub>O = 170.48

U.N Number.....2802  
ADG Class.....8  
Packing Group.....III



### 168 Copper(II) Chloride

UNIVAR

Description: bluish-green moist crystals.

Assay.....99% min.

pH (5% Soln.).....3.0 – 3.8

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.005

As..... 0.0001

Ca..... 0.002

Fe..... 0.001

K..... 0.002

Mg..... 0.002

Na..... 0.002

Ni..... 0.005

Pb..... 0.004

Total N..... 0.004

Pack Size: 500g

### 169 Copper(II) Chloride

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.03

Fe..... 0.005

As..... 0.0005

K..... 0.01

Ca..... 0.01

Mg..... 0.01

Na..... 0.01

NO<sub>3</sub>..... 0.015

Pack Size: 500g

### 1004 Copper(II) Chloride

TECHNICAL

Total copper (approx).....35 - 37%

pH(5% Soln.).....3-4

Pack Size: 500g

## Copper(I) Cyanide

CAS 544-92-3  
CuCN = 89.56

U.N Number.....1587  
ADG Class.....6.1  
Packing Group.....II



### 1009 Copper(I) Cyanide

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)  
SO<sub>4</sub>..... 0.1

Pack Size: 500g

Copper (II) Hydroxide Carbonate (See Copper (II) Carbonate Basic Page 153 )

## Copper(I) Iodide

CAS 7681-65-4  
CuI = 190.45

### 683 Copper(I) Iodide

LABCHEM

Assay.....98% min.

Maximum limit of impurities(%)  
SO<sub>4</sub>..... 0.1

Pack Size: 100G

## Copper(II) Nitrate

CAS 19004-19-4  
Cu(NO<sub>3</sub>)<sub>2</sub> · 3H<sub>2</sub>O = 241.60

U.N Number.....1477  
ADG Class.....5.1  
Packing Group.....II



### 770 Copper(II) Nitrate

UNIVAR

**Description:** hygroscopic, deep blue crystals with an irritating odour due to nitric acid.

Assay.....98 - 102.0%

Maximum limit of impurities(%)	
Ca..... 0.005	Ni..... 0.01
Cl..... 0.002	Zn..... 0.03
SO <sub>4</sub> ..... 0.01	Pb..... 0.001
Na..... 0.01	K..... 0.005
Fe..... 0.005	Mg..... 0.001

Pack Size: 500g

### 771 Copper(II) Nitrate

UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)	
Cl..... 0.02	SO <sub>4</sub> ..... 0.02

Pack Size: 500g, 5kg

## Copper(I) Oxide

CAS 1317-39-1  
Cu<sub>2</sub>O = 143.09

### 1010 Copper(I) Oxide UNILAB

Assay.....	90.0% min.		
Maximum limit of impurities(%)			
Cl.....	1.5		
K.....	0.02	Na.....	0.3

Pack Size: 500g

## Copper(II) Oxide powder

CAS 1317-38-0  
CuO = 79.55

### 1005 Copper(II) Oxide powder UNIVAR

<b>Description:</b> black powder.			
Assay.....	99.0% min.		
Maximum limit of impurities(%)			
Insol. (in dil. HCl).....	0.02	C cpds (as C).....	0.05
Cl.....	0.02	Subs. not pptd.....	0.2
		by H <sub>2</sub> S (as SO <sub>4</sub> )	

Pack Size: 500g

### 759 Copper(II) Oxide, Powder UNILAB

<b>Description:</b> Black Powder			
Assay.....	97% min.		
Maximum limit of impurities(%)			
Cl.....	0.3		
SO <sub>4</sub> .....	0.1	Fe.....	0.1

Pack Size: 500g, 5kg

### 1006 Copper(II) Oxide Powder TECHNICAL

Pack Size: 500g

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials



## Copper (II) Sulphate

CAS 7758-99-8  
CuSO<sub>4</sub>·5H<sub>2</sub>O = 249.68

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



171

### Copper (II) Sulphate

UNIVAR

**Description:** blue crystals or crystalline powder.

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005  
Cl..... 0.001  
N cpds (as N)..... 0.002  
Pb..... 0.005  
Na..... 0.005  
As..... 0.0001

K..... 0.001  
Zn..... 0.03  
Fe..... 0.003  
Ca..... 0.005  
Ni..... 0.005  
Mg..... 0.002

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

772

### Copper(II) Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Fe..... 0.05  
(NH<sub>4</sub>)<sub>2</sub>S metals..... 0.05

Other than Fe (as Ni) Pb..... 0.01  
Cl..... 0.01

Pack Size: 500g, 5kg, 25kg

913

### Copper (II) Sulphate

LABCHEM

Assay.....97.0% min.

Maximum limit of impurities(%)

Fe..... 0.02

Pack Size: 500g

1008

### Copper(II) Sulphate

TECHNICAL

Pack Size: 500g,3kg

## Copper(II) Sulphate Anhydrous

CAS 7758-98-7  
CuSO<sub>4</sub> = 159.60

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



1007

### Copper(II) Sulphate Anhydrous

UNILAB

Assay.....99.0 - 101.0

L.O.D. (@ 250°C).....1.0% max.

Maximum limit of impurities(%)

Cl..... 0.015

Fe..... 0.015

Pack Size: 500g, 5kg, 25kg

Cotton Linters (See Cellulose Microcrystalline Page 131 )

Cream Of Tartar (See Potassium Hydrogen Tartrate Page 354 )

## Creatine Monohydrate

CAS 6020-87-7

$C_4H_9N_3O_2 \cdot H_2O = 149.1$

### 992 Creatine Monohydrate

LABCHEM

**Description:** White crystalline powder

**Solubility:** Soluble in water and alcohol. Insoluble in ether, acetone, and chloroform.

Assay (on dry basis).....98.0% min.

pH (5% @ 25°C).....7 - 9

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Creatine (by fluorometry)..... 0.2

L.O.D..... 11.8 – 12.4

Cl..... 0.2

Pack size: 25G

## Creatinine

CAS 57-00-1

$C_4H_9N_3O_2 = 131.1$

### 3042 Creatinine

UNIVAR

**Description:** White crystalline powder

**Solubility:** Soluble in water and alcohol. Insoluble in ether, acetone, and chloroform.

Assay (Non-aqueous titration).....99.8% min.

Maximum limit of impurities(%)

Fe..... 0.0005

SO<sub>4</sub>..... 0.005

Pb..... 0.0005

Cd..... 0.0005

Cl..... 0.005

Na..... 0.005

Pack size: 25G

## Creatinine Zinc Chloride

CAS 16045-72-0

### 3419 Creatinine Zinc Chloride (Standard for Creatinine determination)

LABCHEM

Assay.....99% min.

Pack Size: 10g

# Spectroscopy Materials

**SPECTROSOL**

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: [www.ajaxfinechem.com/Spectrosol](http://www.ajaxfinechem.com/Spectrosol)

**p-Cresol**

CAS 106-44-5  
 Synonym: 4-Methylphenol  
 $C_7H_8O = 108.14$

U.N Number.....3455  
 ADG Class.....6.1  
 SUB.....8  
 Packing Group.....II

**995****p-Cresol For Synthesis**

LABCHEM

Assay.....98% min.  
 M.P. ....31 – 34°C

Pack Size: 500 mL

**m-Cresol**

CAS 108-39-4  
 $C_6H_4(OH)CH_3 = 108.14$

U.N Number.....2076  
 ADG Class.....6.1  
 SUB.....8  
 Packing Group.....II

**3044****m-Cresol**

OP

Assay(GC).....about 98%  
 Congealing point.....about 11°C  
 Density.....about 1.03g/mL  
 B.R. ....200 – 203°C

Maximum limit of impurities(%)  
 Non-vol..... 0.05

Pack Size: 1L

**m-Cresol Purple**

CAS 2303-01-7

**2298****m-Cresol Purple**

LABCHEM

pH indicator.

Pack Size: 5g

**O-Cresol Red**

CAS 1733-12-6

**2297****O-Cresol Red**

LABCHEM

pH indicator.

Pack Size: 5g

# HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)

## O-Cresolphthalein

CAS 596-27-0  
 $C_{22}H_{18}O_4 = 346.4$

### 607 O-Cresolphthalein LABCHEM

Appearance: Light yellow crystalline powder  
Assay.....98.0% min.  
Melting point.....223 - 235°C

Pack size: 25g

O-Cresolsulphonphthalein-3,3 Bismethyliminodiacetic (See Xylenol Orange Page 479 )

## Crystal Violet (CI42555)

CAS 548-62-9  
 $C_{25}H_{30}ClN_3 = 407.99$

### 3273 Crystal Violet (CI42555) OP

Indicator for non-aqueous titrations. Stain for microscopy.

Pack Size: 25g, 1kg

### 1820 Crystal Violet Stain Solution LABCHEM

0.5% in aqueous solution

Pack Size: 1L, 5L

## Cupferron

CAS 135-20-6  
**Synonyms:** N-nitroso-N-phenylhydroxylamine ammonium salts  
As a reagent for separating Cu and Fe from other metals  
As a reagent for determination of vanadates  
 $C_6H_9N_3O_2 = 155.16$

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 167 Cupferron Suitable for colorimetric determination of Al UNIVAR

Assay (ex  $NH_4$ ).....98% min.  
M.P. ....153 - 155°C

Maximum limit of impurities(%)  
Substances insoluble in  $H_2O$ ..... 0.01  
Sulphated ash..... 0.05

Suitability for the precipitation. ....To pass test of iron (III) ions

Pack Size: 25g, 100g

Cupric Acetate (See Copper (II) Acetate Page 153 )

Cupric Carbonate Basic (See Copper (II) Carbonate Basic Page 153 )

Cupric Chloride (See Copper (II) Chloride Page 154 )

Cupric Nitrate (See Copper (II) Nitrate Page 155 )

**Cupric Oxide** (See Copper (II) Oxide Powder Page 156 )

**Cuprone** (See A-Benzoin Oxime Page 84 )

**Cuprous Chloride** (See Copper (I) Chloride Page 154 )

**Cuprous Iodide** (See Copper (I) Iodide Page 155 )

**Cuprous Oxide** (See Copper (I) Oxide Page 156 )

**Cupric Sulphate** (See Copper (II) Sulphate Page 157 )

## Curcumin

CAS 458-37-7

Synonym: Natural yellow 3

$C_{21}H_{20}O_6 = 368.39$

**454**

**Curcumin C.I. 75300**

LABCHEM

Assay ( by acidimetry).....99% min.

M.P. ....170 – 180°C

Natural yellow 3 (Turmeric)

Pack Size: 10g

## Cyanoacetic Acid

CAS 372-09-8

$NCCH_2COOH = 85.06$

U.N Number.....1759

ADG Class.....8

Packing Group.....III



**1011**

**Cyanoacetic Acid**

TECHNICAL

Assay.....99% min.

M.R. ....66-70°C

Maximum limit of impurities(%)

L.O.D (on  $H_2SO_4$ ).....1

Pack Size: 250g

**Cyanol** (See Xylene Cyanol FF Page 477 )

**Cyanosine** (See Phloxine B Page 334 )

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)

## Cyclohexane

CAS 110-82-7  
C<sub>6</sub>H<sub>12</sub> = 84.16

U.N Number.....1145  
ADG Class.....3  
Packing Group.....II



### 588 Cyclohexane

SPECTROSOL

Density.....0.779 g/mL  
M.P. ....6°C  
B.P. ....80.7°C  
Assay (GC).....99.5% min.  
Acidity (mEq/g).....0.0005

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.01  
R.O.E..... 0.0005

Max. UV. Absorbance:

λ(nm)	220	230	240	250
Absorbance	0.30	0.1	0.05	0.01

Pack Size: 500mL, 2.5L GL

### 719 Cyclohexane

UNIVAR

Description: clear liquid; odour characteristic.  
Assay.....99.0% min.  
Colour (APHA).....10 max.  
R.I. @ 20°C.....1.4250 – 1.4280

Maximum limit of impurities(%)

R.A.E..... 0.002  
H<sub>2</sub>O (K.F.)..... 0.02

Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L

### 175 Cyclohexane

UNILAB

Density(@25°C).....about 0.77g/mL  
B.R.(95% min.).....79 – 81°C  
R.I. (a 25°C).....1.425 – 1.428

Maximum limit of impurities(%)

Non-vol..... 0.005

Pack Size: 500mL, 2.5L, 20L

## Cyclohexanol

CAS 108-93-0  
C<sub>6</sub>H<sub>12</sub>O= 100.16

### 176 Cyclohexanol

UNILAB

Density.....about 0.95 g/mL  
F.P. ....18°C min.  
Assay.....99% min.

Maximum limit of impurities(%)

Non-vol..... 0.05  
Acidity (as CH<sub>3</sub>COOH)..... 0.01

Water..... 0.2

Pack Size: 500mL, 2.5L

## Cyclohexanone

CAS 108-94-1  
C<sub>6</sub>H<sub>10</sub>O = 98.15

U.N Number.....1915  
ADG Class.....3  
Packing Group.....II



177

### Cyclohexanone

UNILAB

Density.....about 0.94 g/mL  
R.I .....1.448-1.450  
Assay.....99.5% min.

Maximum limit of impurities(%)

Non-vol..... 0.04  
Acidity (as CH<sub>3</sub>COOH)..... 0.03

H<sub>2</sub>O (K.F.)..... 0.1

Pack Size: 2.5L, 20L

## Cyclohexene

CAS 110-83-8  
C<sub>6</sub>H<sub>10</sub> = 82.15

U.N Number.....2256  
ADG Class.....3  
Packing Group.....II



1219

### Cyclohexene

UNILAB

Density.....about 0.81 g/mL  
Assay.....99% min.

Pack Size: 500mL

Cyclopentadine Dimer (See Dicyclopentadiene Page 173 )

## Cyclopentane

CAS 287-92-3  
C<sub>5</sub>H<sub>10</sub> = 70.14

U.N Number.....1146  
ADG Class.....3  
Packing Group.....II



684

### Cyclopentane

UNILAB

Assay (Cyclopentane).....75.0% min.  
Assay (C<sub>5</sub> and C<sub>6</sub> Hydrocarbons).....99.8% min.  
Density.....0.751  
Boiling Point.....50°C  
R.I ..... 1.4000

Pack size: 500mL

# Coatasil

## Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## L-Cysteine Hydrochloride hydrate

CAS 7048-04-6

$\text{HSCH}_2\text{CH}(\text{NH}_2)\text{COOH}\cdot\text{HCl}\cdot\text{H}_2\text{O} = 175.64$

### 2377 L-Cysteine Hydrochloride hydrate

LABCHEM

Appearance: White crystals/powder.

Assay (dry basis).....98.5 - 101.5%

Spec. rotn. (c=8 (1N)HCl).....+5.5° to +7.1° (@ 25°C)

Maximum limit of impurities(%)

R.O.I..... 0.1

Fe..... 0.003

H.M.(as Pb)..... 0.001

$\text{SO}_4$ ..... 0.03

As..... 0.0001

Pack Size: 25g

## L-Cystine

CAS 56-89-3

$\text{HOOCCH}(\text{NH}_2)\text{CH}_2\text{SSCH}_2\text{CH}(\text{NH}_2)\text{COOH} = 240.30$

### 3047 L-Cystine

UNIVAR

Appearance: white crystalline powder

Assay.....98.5% min.

Specific rotation.....about -210°

Maximum limit of impurities(%)

Cl..... 0.02

Pb..... 0.001

L.O.D..... 0.5

$\text{SO}_4$ ..... 0.03

R.O.I. (as  $\text{SO}_4$ )..... 0.1

Pack size: 100g

## Decanoic Acid

CAS 334-48-5

$\text{CH}_3(\text{CH}_2)_8\text{CO}_2\text{H} = 172.27$

### 1332 Decanoic Acid

UNILAB

Assay.....96.0% min.

Pack size: 500mL

## Dekalin

CAS 91-17-8

$\text{C}_{10}\text{H}_{18} = 138.25$

### 736 Dekalin

UNILAB

Assay (GC) (Cis & Trans).....99% min.

Maximum limit of impurities(%)

Water (KF)..... 0.1

Pack Size: 2.5L

Denatured Alcohol (See Methylated Spirits 95% Page 292 )



## AJAX Labware Detergent

U.N Number.....1760  
 ADG Class.....8  
 Packing Group.....II



### 7875 AJAX Labware Detergent

LABCHEM

This powerful detergent, which contains both anionic and cationic surfactants, has been specially developed to tackle the sometimes difficult but important job of thorough cleaning laboratory ware. It is specially formulated for manual cleaning, ultrasonic cleaning, and may be used in washing machines.

Contains 5% Potassium Hydroxide

Free of Phosphate, Chlorine, Enzymes, and EDTA.

Ajax Labware Detergent is completely biodegradable.

Pack Size: 5L

## Devarda's Alloy Powder

CAS 8049-11-4

### 1014 Devarda's Alloy Powder (Reducing agent for determination of N<sub>2</sub> in Nitrate & Nitrites) Contains about 50% Cu, 45% Al, 5% Zn

UNILAB

Maximum limit of impurities(%)  
 Total N..... 0.001

Pack Size: 100g

## Dextrin White Powder

CAS 9004-53-9  
 (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub> x H<sub>2</sub>O

### 2386 Dextrin White Powder

LABCHEM

Maximum limit of impurities(%)  
 L.O.D. @110°C..... 5  
 Sulphated ash..... 0.02  
 Reducing sugar (as dextrose)..... 0.4

Pack Size: 500g

## Dextrin Yellow

CAS 9004-53-9

### 2470 Dextrin Yellow

LABCHEM

Pack Size: 500g

**Dextrose** (See D-Glucose Anhydrous Page 213 )

## Diacetone Alcohol

CAS 123-42-2  
 $(\text{CH}_3)_2\text{COHCH}_2\text{COCH}_3 = 116.16$

U.N Number.....1148  
ADG Class.....3  
Packing Group.....III



### 178 Diacetone Alcohol

UNILAB

Assay.....99.0% min.  
Colour (APHA).....25

Maximum limit of impurities(%)  
Water.....0.15

Pack size: 500mL

Diacetyl Dioxime (See Dimethylglyoxime Page 182 )

## Diacetyl Monoxime

CAS 57-71-6  
 $\text{C}_4\text{H}_7\text{NO}_2 = 101.11$

### 866 Diacetyl Monoxime

UNIVAR

Appearance: white crystalline powder  
Assay.....99.0% min  
Melting point.....74 – 76°C

Maximum limit of impurities(%)  
Sulphated Ash.....0.05

Store below 4°C

Pack size: 25g, 100g

Ethylene Glycol Monoethyl Ether (See 2-Ethoxyethanol Page 195 )

## N,N'-Diallyltartardiamide

CAS 58477-85-3  
 $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_4 = 228.25$

### 3416 N,N'-Diallyltartardiamide

UNILAB

Appearance: white flakes  
Assay.....99.0% min  
Melting point.....183 – 186°C

Pack size: 25g

Diamant Fuchsin (See Fuchsin Basic Page 210 )

1,4-Diaminobenzene (See P-Phenylenediamine Page 332 )

## 1,2-Diaminocyclohexane Tetra Acetic Acid

CAS 482-54-2  
 $C_{14}H_{22}N_2O_8 \cdot H_2O = 364.36$

### 2483 1,2-Diaminocyclohexane Tetra Acetic Acid

LABCHEM

Pack Size: 25g

## 1,6-Diaminohexane

CAS 124-09-4  
 $NH_2(CH_2)_6NH_2 = 116.21$

U.N Number.....2280  
 ADG Class.....8  
 Packing Group.....III



### 2303 1,6-Diaminohexane

LABCHEM

Assay (GC).....99% min.  
 M.R. ....41 - 43°C

Pack Size: 100g

## 1,2-Dibromoethane

CAS 106-93-4  
 $C_2H_4Br_2 = 187.86$

U.N Number.....1605  
 ADG Class.....6.1  
 Packing Group.....I



### 1339 1,2-Dibromoethane

OP

**Description:** Clear colourless to faintly yellow coloured liquid.

Assay (GC).....>98.5%  
 R.I. @ 20°C.....1.5375 – 1.5395

Maximum limit of impurities(%)  
 Acidity (as HCl)..... 0.001

Pack Size: 1L

## Dibutylamine

CAS 111-92-2  
 $(CH_3(CH_2)_3)_2NH = 129.25$

U.N Number.....2248  
 ADG Class.....8  
 SUB.....3  
 Packing Group.....II



### 1344 Dibutylamine

LABCHEM

Assay.....99.0% min.  
 Colour (APHA).....15

Maximum limit of impurities(%)  
 Water..... 0.3

Pack size: 2.5L

## Di-Iso-Butyl Ketone

CAS 108-83-8  
{(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>}<sub>2</sub>CO = 142.24

U.N Number.....1157  
ADG Class.....3  
Packing Group.....III



### 1341 Di-Iso-Butyl Ketone

UNILAB

Density.....about 0.81g/mL  
B.R.(95% min.).....164 – 169°C

Maximum limit of impurities(%)  
Non-vol..... 0.01

Pack Size: 2.5L, 20L

## Di-n-Butyl Phthalate

CAS 84-74-2  
C<sub>6</sub>H<sub>4</sub>(COOC<sub>4</sub>H<sub>9</sub>)<sub>2</sub> = 278.35

U.N Number.....3082  
ADG Class.....9  
Packing Group.....III



### 184 Di-n-Butyl Phthalate

UNILAB

Assay.....99.0% min.  
Density.....1.043-1.048 g/mL  
R.I. ....1.492 – 1.495

Maximum limit of impurities(%)  
Sulph. ash..... 0.02                      Acidity.....0.3 mmol H

Pack Size: 500mL

## Di-n-Butyl Sulphide

CAS 544-40-1  
{CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>}<sub>2</sub>S = 146.30

### 1033 Di-n-Butyl Sulphide

TECHNICAL

Density.....about 0.84g/mL  
R.I. ....1.453  
Assay.....97% min.  
B.R., .....185 – 188°C

Pack Size: 100mL

Di-n-Butylamine (See Dibutylamine Page 167)

# Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards. Discover More: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)

## 1,4-Dichlorobenzene

CAS 106-46-7

Synonyms: p-Dichlorobenzene

$C_6H_4Cl_2 = 147.00$

U.N Number.....3077

ADG Class.....9

Packing Group.....III



867

### 1,4-Dichlorobenzene For Synthesis

UNILAB

Assay.....99% Min.

M.P. ....52 – 56°C

Pack Size: 500g

## 1,2-Dichlorobenzene

CAS 95-50-1

$C_6H_4Cl_2 = 147.00$

U.N Number.....1591

ADG Class.....6.1

Packing Group.....III



804

### 1,2-Dichlorobenzene

OP

Assay.....98.0% min.

Boiling Point.....180°C

Density (g/mL) @ 25°C.....1.306

Dielectric constant @ 25°C.....9.93

R.I. (n<sub>20</sub><sup>D</sup>).....1.5510

Viscosity (cps) @ 20°C.....1.324

Maximum limit of impurities(%)

Acidity (as HCl)..... 0.005

R.A.E..... 0.005

Water..... 0.1

Pack size: 1L

O-Dichlorobenzene (See 1,2-Dichlorobenzene Page 169 )

P-Dichlorobenzene (See 1,4-Dichlorobenzene Page 169 )

## 2,6-Dichloro-p-Benzoquinone-4-Chlorimine

CAS 101-38-2

$O:C_6H_2Cl_2:NCl = 210.45$

724

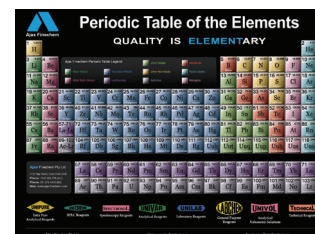
### 2,6-Dichloro-p-Benzoquinone-4-Chlorimine

LABCHEM

Pack Size: 5g

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## 1,2-Dichloroethane

CAS 107-06-2  
CH<sub>2</sub>ClCH<sub>2</sub>Cl = 98.96

U.N Number.....1184  
ADG Class.....3  
SUB.....6.1  
Packing Group.....II



### 249 1,2-Dichloroethane SPECTROSOL

Density.....1.252 g/mL  
M.P.....-35°C  
B.P.....83.5°C  
Assay (GC).....99.8% min.  
Acidity (mEq/g).....0.0005 max.

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.01  
R.O.E..... 0.0005

Max. UV. Absorbance:

λ(nm)	230	240	250	260
Absorbance	0.52	0.10	0.05	0.009

Pack Size: 500mL, 2.5L GL

### 741 1,2-Dichloroethane UNIVAR

Description: clear liquid with a characteristic odour.  
Assay.....99.0% min.  
Colour (APHA).....10 max.  
R.I. (at 20°C).....1.4445 – 1.4455

Maximum limit of impurities(%)

R.A.E..... 0.002  
Titratable acid.....0.03 mmol H

H<sub>2</sub>O (K.F.)..... 0.03

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L, 200L

### 654 1,2-Dichloroethane UNILAB

Density.....about 1.25g/mL  
B.R.(95% min.).....82-84°C

Maximum limit of impurities(%)

Non-vol..... 0.02  
Acidity (as HCl)..... 0.01

H<sub>2</sub>O (K.F.)..... 0.05

Pack Size: 500mL, 2.5L

### 1343 1,2-Dichloroethane TECHNICAL

Description: clear liquid with a characteristic odour.  
Assay.....99% min.

Pack Size: 20L

## 2',7'-Dichlorofluorescein(CI 45365)

CAS 76-54-0

### 2442 2',7'-Dichlorofluorescein(CI 45365) LABCHEM

Adsorption indicator.

Pack Size: 5g

## Dichloromethane

CAS 75-09-2  
 $\text{CH}_2\text{Cl}_2 = 84.93$

U.N Number.....1593  
 ADG Class.....6.1  
 Packing Group.....III



### 3001 Dichloromethane GC

UNICHROM

Assay (by GC).....99.8% min.  
 Stabilised with ~50 ppm amylene  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by coulometry)..... 0.05  
 R.O.E..... 0.0005

Pack Size: 4L

### 2319 Dichloromethane

UNICHROM

**Description:** clear volatile liquid. Specially purified for HPLC  
 Filtered through 0.45 micron filter

Assay (GLC).....99.5% min.  
 Preservative Amylene

$\text{H}_2\text{O}$  (by K.F.)..... 0.02

Maximum limit of impurities(%)  
 Non-vol..... 0.001  
 Acidity (as HCl)..... 0.001

**U.V. Absorbance:**  
 $\lambda$ (nm)        280        254        235  
 Max. abs.    0.01        0.04        1.0

Pack Size: 2.5L

### 560 Dichloromethane

SPECTROSOL

**Description:** clear, volatile liquid. For U.V. spectroscopy.

R.I @ 20°C.....about 1.424.  
 Density @ 25°C.....about 1.320 g/mL.  
 Assay..... 99.5 min.  
 Colour (APHA).....10 min.  
 Preservative Cyclohexene

Maximum limit of impurities(%)  
 R.A.E..... 0.002  
 Titratable acid..... 0.0003

$\text{H}_2\text{O}$  (K.F.)..... 0.02  
 Free halogens..... passes test

Conforms to ACS

**U.V. Absorbance:**  
 $\lambda$ (nm)        235    240    250    260    340-400  
 Max. abs.    1.00   0.35   0.10   0.04   0.01

Pack Size: 2.5L

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

**709** **Dichloromethane** UNIVAR

**Description:** clear, volatile liquid.  
 Density @25°C.....about 1.320 g/mL  
 R.I. ....about 1.424  
 Assay (by GLC).....99.5% min.  
 Colour (APHA).....10 max.  
 Stabilizer Amylene

Maximum limit of impurities(%)	
R.A.E.....	0.002
Titratable acid.....	0.03 mmol H
H <sub>2</sub> O (K.F.).....	0.02
Free halogens.....	To pass test
Al.....	0.00005
Ca.....	0.00005
Na.....	0.00005
Ba.....	0.00002
K.....	0.00002
Cd.....	0.000005
Pb.....	0.000005
Mg.....	0.000005
Cr.....	0.000002
Co.....	0.000002
Cu.....	0.000002
Mn.....	0.000002
Ni.....	0.000002
Sr.....	0.000002
Fe.....	0.00001
Zn.....	0.00001

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 200L

**186** **Dichloromethane** UNILAB

Density.....about 1.32g/mL  
 Assay.....99% min.

Maximum limit of impurities(%)  
 Non-vol..... 0.01

Pack Size: 500mL, 2.5L

**5113** **Dichloromethane HP** LABCHEM

Solvent for Histopathology

Pack Size: 10L

**103** **Dichloromethane** LABCHEM

Assay.....98% min.  
 Density (@20°C).....1.322-1.328

Pack Size: 200L

**1355** **Dichloromethane** TECHNICAL

Density.....about 1.32g/mL

Pack Size: 2.5L

**2,6-Dichloroindophenol Sodium Salt**(See 2,6-Dichlorophenolindophenol Sodium Salt Page 173 )

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)



## 2,6-Dichlorophenolindophenol Sodium Salt

CAS 620-45-1

 $O:C_6H_2Cl_2:NC_6H_4ONa = 290.08$ 

### 655 2,6-Dichlorophenolindophenol Sodium Salt

UNIVAR

Redox indicator.  
Suitable for ascorbic acid determinations.

Maximum limit of impurities(%)

Interfering dyes. .... To pass test  
L.O.D. (@120°C).....12.0  
Transition EMF (@pH=0).....+0.67 V  
Transition EMF (@pH=7).....+0.23 V  
Colour change: Oxidized (blue) to reduced (colourless)  
Conforms to ACS

Pack Size: 1g, 10g

## 2,4-Dichlorophenoxy Acetic Acid

CAS 94-75-7

 $C_8H_6Cl_2O_3 = 221.04$ 

U.N Number.....3345

ADG Class.....6.1

Packing Group.....III



### 1345 2,4-Dichlorophenoxy Acetic Acid

LABCHEM

Assay (by acidimetry).....98% Min.  
M.P. ....134 – 137°C

Pack Size: 250g

### 515 2,4-Dichlorophenoxyacetic Acid

LABCHEM

Appearance: Light buff coloured crystalline powder  
Assay.....98.0% min  
Melting point.....134 – 138°C

Pack size: 100g, 500g

## Dicyclopentadiene

CAS 77-73-6

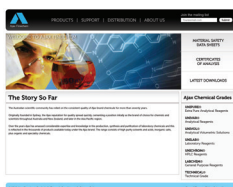
 $C_{10}H_{12} = 132.21$ 

### 3049 Dicyclopentadiene

UNILAB

Assay.....94% min.  
Stabilizer 100 to 200ppm p-tert-butylcatechol

Pack size: 1L



## Your Window to Ajax Finechem

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## Diethanolamine

CAS 111-42-2  
(HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NH = 105.14

### 1019 Diethanolamine

UNILAB

Density.....about 1.10g/mL  
Assay.....98.5 - 101.5%  
F.P.....26°C min.

Maximum limit of impurities(%)  
Sulph. ash..... 0.05

Pack Size: 500mL, 2.5L

## Diethylamine

CAS 109-89-7  
(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NH = 73.14

U.N Number.....1154  
ADG Class.....3  
SUB.....8  
Packing Group.....II



### 189 Diethylamine

UNILAB

Density.....about 0.71g/mL  
R.I.....about 1.385  
Assay.....99.5% min.

Maximum limit of impurities(%)  
Water..... 0.1

Pack Size: 500mL, 2.5L, 20L

**Diethylene Glycol Monoethyl Ether** (See Ethyldigol Page 197 )

**9, 10 -Dihydro-9-Oxoanthracene** (See Anthrone Page 66 )

**1,2-Dihydroxybenzene** (See Catechol Page 130 )

**1,8-Dihydroxynaphthalene-3,6-Disulphonic Acid Na** (See Chromotropic Acid Sodium Salt Page 146)

**3,5-Dihydroxytoluene** (See Orcinol Monohydrate Page 316 )

**Dimethylketone** (See Acetone Page 23 )

**DECT** (See Silver Diethyl Dithiocarbamate Page 386 )

**Diethyldithiocarbamic Acid Silver Salt** (See Silver Diethyl Dithiocarbamate Page 386 )

**Diethylcarbinol** (See Iso-Amyl Alcohol Page 62 )

**N,N-Diethylethanamine** (See Triethylamine Page 459 )

## Anaesthetic Ether (Diethyl Ether)

CAS 60-29-7  
(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O = 74.12

U.N Number.....1155  
ADG Class.....3  
Packing Group.....I



### 2542 Anaesthetic Ether (Diethyl Ether) UNILAB

**Description:** A clear, colourless, volatile, very mobile liquid; odour characteristic.  
B.R.(100%).....34.0 - 35.0°C  
Relative Density.....0.714-0.716 g/mL

Maximum limit of impurities(%)

Non-vol. matter..... 0.002  
Acidity.....0.04 mmol H  
Foreign odour.....To pass test

Acetone and aldehydes.....To pass test  
Peroxides.....To pass test  
H<sub>2</sub>O..... 0.2

Chemical and physical parameters conform to BP  
Store below 15°C

Pack Size: 500mL, 2.5L, 20L

### 266 Diethyl Ether SPECTROSOL

Density.....0.714 g/mL  
M.P.....-116°C  
B.P.....34.4°C  
Assay (GC).....99.5% min.  
Acidity (mEq/g).....0.0005 max.

FTIR Spectrum..... To Pass test

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.02  
R.O.E..... 0.001

**Max. UV. Absorbance:**

λ(nm)	230	250	260	270	280
Absorbance	0.40	0.13	0.05	0.022	0.009

Pack Size: 500mL, 2.5L GL

### 1725 Diethyl Ether UNIVAR

**Description:** clear, volatile liquid with a characteristic odour. The vapours are heavier than air.  
Density (@25°C).....about 0.710g/mL.  
Assay.....98.0% min.  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.E..... 0.001  
Titratable acid.....0.02 mmol H  
Carbonyl (as HCHO)..... 0.001  
Peroxide (as H<sub>2</sub>O<sub>2</sub>)..... 0.0001  
Al..... 0.00001  
Ca..... 0.00001  
Na..... 0.00001  
Zn..... 0.00001  
Fe..... 0.00001  
Ba..... 0.000002

Cd..... 0.000002  
Cr..... 0.000002  
Co..... 0.000002  
Cu..... 0.000002  
Mn..... 0.000002  
Sr..... 0.000002  
Ni..... 0.000002  
Pb..... 0.000005  
Mg..... 0.000005  
K..... 0.000005

Conforms to ACS  
Store below 15°C

Pack Size: 500mL, 2.5L, 20L, 145kg

**1673 Diethyl Ether (Solvent Ether)**

UNILAB

Description: clear, colourless, volatile liquid; odour, characteristic. Highly flammable; mixtures of its vapour with oxygen, air or nitrous oxide in certain concentrations are explosive.

B.R.(100%).....34 – 36°C  
Density.....0.714 - 0.718g/mL

Maximum limit of impurities(%)

Non-volatile matter..... 0.002	Methanol..... To pass test
Acidity..... 0.04 mmolH	Peroxide (as H <sub>2</sub> O <sub>2</sub> )..... To pass test

Chemical and physical parameters conform to BP  
Store below 15°C

Pack Size: 500mL, 2.5L, 20L, 145kg

**1724 Diethyl Ether anhydrous**

UNIVAR

Description: clear, volatile liquid with a characteristic odour. The vapours are heavier than air.

Assay.....99.0% min.  
Colour (APHA).....10 max.  
Density (@25°C).....0.7079g/mL max.

Maximum limit of impurities(%)

R.A.E..... 0.001	Foreign odour..... To pass test
Titrateable acid..... 0.0002 meq/g	Peroxide (as H <sub>2</sub> O <sub>2</sub> )..... 0.0001
Carbonyl (as HCHO)..... 0.001	Subs. darkened by H <sub>2</sub> SO <sub>4</sub> ..... To pass test
C <sub>2</sub> H <sub>5</sub> OH..... 0.05	H <sub>2</sub> O (K.F.)..... 0.03

Conforms to ACS  
Store below 15°C

Pack Size: 500mL, 2.5L, 20L, 145kg

**1743 Diethyl Ether low in peroxide**

UNILAB

Description: clear, colourless, volatile liquid; odour, characteristic. Highly flammable, mixtures of its vapour with oxygen, air or nitrous oxide in certain concentrations are explosive.

Assay.....98% min  
Density.....0.714-0.718 g/mL

Maximum limit of impurities(%)

Non-vol..... 0.002	Acetone & aldehyde..... To pass test
Acidity..... 0.016 mmol H	Peroxide (as H <sub>2</sub> O <sub>2</sub> )..... 0.0001

Store below 15°C

Pack Size: 500mL, 2.5L, 20L

**Diethyl Oxide** (See Anaesthetic Ether Page 175 )

**1,4-Diethylene Dioxide** (See 1-4-Dioxane Page 185 )

**Diethylene Ether** (See 1-4-Dioxane Page 185 )

**Diethylene Glycol** (See Digol Page 178 )

**Diethylene Glycol Monobutyl Ether** (See Butyldigol Page 112 )

## Diethyl Malonate

CAS 105-53-3

Synonym: Ethyl Malonate

$C_7H_{12}O_4 = 160.17$

### 1023 Diethyl Malonate For Synthesis

LABCHEM

Assay.....99% min.

Density @ 20°C.....1.054 – 1.055

Pack Size: 500mL

## Diethyl Phthalate

CAS 84-66-2

$C_{12}H_{14}O_4 = 222.24$

### 1025 Diethyl Phthalate For Synthesis

UNILAB

Assay.....99% min.

Density @ 20°C.....1.117 – 1.119

Pack Size: 500mL

## Diethyl Sulphate

CAS 64-67-5

Synonym: Sulphuric Acid Diethyl Ester

$C_4H_{10}O_4S = 154.18$

U.N Number.....1594

ADG Class.....6.1

Packing Group.....II



### 1026 Diethyl Sulphate For Synthesis

LABCHEM

Assay.....>99%

Density @ 20°C.....1.175 – 1.179

Pack Size: 500mL

## N,N-Diethyl-p-Phenylenediamine Sulphate

CAS 6283-63-2

$C_{10}H_{18}N_2O_4S = 262.33$

### 3295 N,N-Diethyl-p-Phenylenediamine Sulphate

UNIVAR

Assay (by acidimetry).....99% min.

M.P. ....184 – 187°C

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Fe..... 0.001

Sulphated ash..... 0.05

H<sub>2</sub>O..... 0.5

Pack Size: 100g

## Digol

CAS 111-46-6  
(CH<sub>2</sub>OHCH<sub>2</sub>)<sub>2</sub>O = 106.12

1027

### Digol

UNILAB

Density.....about 1.12g/mL  
R.I. ....about 1.447  
B.R.(95% min.).....240 - 247°C

Maximum limit of impurities(%)  
Sulph. ash..... 0.02

Pack Size: 2.5L, 200L

## 3,(3-4 Dihydroxy Phenyl)L-Alanine

CAS 59-92-7  
Synonyms: L-DOPA; Levodopa  
C<sub>9</sub>H<sub>11</sub>NO<sub>4</sub> = 197.19

450

### 3,(3-4 Dihydroxy Phenyl)L-Alanine Soluble acid and Alkalis

LABCHEM

Assay.....99% min.  
M.P. ....~295°C

Pack Size: 5g

## Dimedone

CAS 126-81-8  
C<sub>8</sub>H<sub>12</sub>O<sub>2</sub> = 140.2

1028

### Dimedone

LABCHEM

Appearance: white crystalline powder  
Assay.....99.5% min  
Melting point.....146 - 148°C

Maximum limit of impurities(%)  
L.O.D.....1 Sulphated Ash..... 0.1

Pack size: 25g

## 1,2-Dimethoxyethane

CAS 110-71-4  
Synonyms: Ethylene Glycol Dimethyl Ether  
C<sub>4</sub>H<sub>10</sub>O<sub>2</sub> = 90.12

U.N Number.....2252  
ADG Class.....3  
Packing Group.....II



2291

### 1,2-Dimethoxyethane

LABCHEM

Peroxide.....>0.005%

Pack Size: 500mL

## N,N-Dimethylacetamide

CAS 127-19-5  
C<sub>4</sub>H<sub>9</sub>NO = 87.12

### 3051 N,N-Dimethylacetamide

LABCHEM

Assay(GLC).....99% min.

Pack Size: 500mL

## Dimethylamine Solution 40%

CAS 124-40-3  
C<sub>2</sub>H<sub>7</sub>N = 45.08

U.N Number.....1160  
ADG Class.....3  
SUB.....8  
Packing Group.....II



### 1029 Dimethylamine Solution 40%

LABCHEM

Assay (by acidimetry).....40% min.

Density @ 20°C.....0.883 – 0.885

Pack Size: 500mL

## 4-Dimethylaminobenzaldehyde

CAS 100-10-7  
(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO = 149.19

### 194 4-Dimethylaminobenzaldehyde

UNIVAR

Suitable for hydrazine determinations.

**Description:** white or pale yellow crystalline powder.

Melting point.....73 – 75°C

Maximum limit of impurities(%)

R.A.I. .... 0.1

Solubility (in alc.) ..... To pass test

Solubility (in HCl) ..... To pass test

Colour of alc. soln..... 60 APHA

Colour of HCl soln..... passes test

Conforms to ACS

Pack Size: 25g, 100g, 500g

### 1348 4-Dimethylaminobenzaldehyde

UNILAB

Assay.....98% min.

M.R. ....72-75°C

Maximum limit of impurities(%)

Sulph. ash. .... 0.2

Pack Size: 100g

## Dimethyl Ammonium Chloride

CAS 506-59-2  
C<sub>2</sub>H<sub>8</sub>ClN = 81.55

### 453 Dimethyl Ammonium Chloride

UNILAB

Appearance: white crystals  
Assay.....99.0% min  
Melting point.....172 - 175°C

Pack size: 100g, 5Kg

Dimethylbenzene (See Xylene Page 478 )

1,2-Dimethyl Benzene (See O-Xylene Page 479 )

1,3-Dimethylbenzene (See M-Xylene Page 479 )

1,4-Dimethyl Benzene (See P-Xylene Page 479 )

## 2,2-Dimethylbutane, 98%

CAS 75-83-2  
C<sub>6</sub>H<sub>14</sub> = 86.18

### 3409 2,2-Dimethylbutane, 98%

LABCHEM

Assay.....98%

Pack Size: 500ml

Dimethylcarbinol (See Propan-2-ol Page 368 )

# Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



## Summary of Ampoules available

Cat-No	Description	Cat-No	Description	Cat-No	Description
1366	Hydrochloric Acid 0.1M	1376	Silver Nitrate 0.1M	1378	Potassium Hydroxide 0.1M
1395	Oxalic Acid 0.05M	1377	EDTA 0.1M	1361	Potassium Permanganate 0.02M
1373	Sulphuric Acid 0.05M	1396	Iodine 0.01M	1386	Sodium Hydroxide 0.1M
1398	Ammonium Thiocyanate 0.1M	1359	Potassium Dichromate 1/60M	1388	Sodium Thioulphate 0.1M



## N,N-Dimethylformamide

CAS 68-12-2  
HCON(CH<sub>3</sub>)<sub>2</sub> = 73.09

U.N Number.....2265  
ADG Class.....3  
Packing Group.....III



### 2540 N,N-Dimethylformamide

UNICHROM

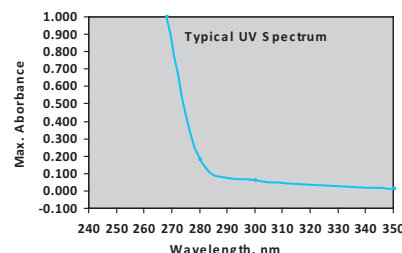
**Description:** clear liquid. Store at 4°C when not in use. Each bottle contains 25 mg molecular sieve 4A stabilizer.

Assay (GLC).....>99.5%  
B.R.(100%) 20°C.....152.9 - 153.1°C  
R.I. @25°C.....1.427  
Viscosity @20°C.....0.90cps  
Colour (APHA).....15 max.  
Density (@ 25°C).....0.942 - 0.946 g/mL

Maximum limit of impurities(%)  
R.A.E..... 0.005  
Titratable acid..... 0.05 mmol H  
Titratable base..... 0.3 mmol OH  
H<sub>2</sub>O..... 0.15  
Foreign amines (with FDNB)..... To pass test

Suggested Applications:  
Specially purified grade for HPLC. Filter before use.

Pack Size: 2.5L



λ(nm)	268	280	300	350
Max. abs.	1.00	0.16	0.06	0.01

### 2218 Dimethylformamide

SPECTROSOL

**Description:** clear liquid.  
Density.....0.949 g/mL  
M.P. ....-60°C  
B.P. ....153°C  
Assay (GC).....99.8% min.  
Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
Water (by Coulometry)..... 0.05  
R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum..... To Pass test

λ(nm)	270	280	290	300	330
Absorbance	0.5	0.15	0.1	0.05	0.009

### 2217 N,N-Dimethylformamide

UNIVAR

**Description:** clear liquid.  
Assay(GLC).....99.8% min.  
Colour (APHA).....15 max.

Maximum limit of impurities(%)  
R.A.E..... 0.005  
Titratable acid..... 0.05 mmol H

Pack Size: 500mL, 2.5L, 20L

Titratable base..... 0.3 mmol OH  
H<sub>2</sub>O (K.F.)..... 0.15

### 231 N,N-Dimethylformamide

UNILAB

Density.....about 0.95g/mL  
Assay.....99% min.  
R.I. ....1.429 - 1.431

Maximum limit of impurities(%)  
Non-vol..... 0.02

Pack Size: 2.5L, 20L

H<sub>2</sub>O (K.F.)..... 0.2

## Dimethylglyoxime

CAS 95-45-4

$\text{CH}_3\text{C}(:\text{NOH})\text{C}(:\text{NOH})\text{CH}_3 = 116.12$

### 197 Dimethylglyoxime

UNIVAR

Reagent for nickel.

**Description:** white crystalline powder.

M.P. ....about 240°C

Maximum limit of impurities(%)

R.A.I (Sulph. ash) ..... 0.05

Insol. (in alc.) ..... 0.05

Suitability for Ni detmn.....To pass test

Conforms to ACS

Pack Size: 25g, 100g, 500g

## N,N-Dimethyl-p-Phenylenediamine

CAS 99-98-9

$(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{NH}_2 = 136.20$

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



### 2448 N,N-Dimethyl-p-Phenylenediamine

LABCHEM

Assay (GC).....98% min.

M.P. ....35 – 38°C

Pack Size: 25g

2,6-Dimethylpentan-4-One (See Diisobutyl Ketone Page 168 )

2,9 Dimethyl-1-10-Phenanthroline Hydrochloride hydrate(See Neocuproine Hydrochloride Hydrate Page 301 )

2,3-Dimethyl-1-Phenyl-3-Pyrazolin (See Antipyrine Page 69 )

## Dimethyl Phthalate

CAS 131-11-3

**Synonym:** DMP

$\text{C}_{10}\text{H}_{10}\text{O}_4 = 194.19$

### 687 Dimethyl Phthalate For Synthesis

UNILAB

Assay.....99% min.

Density @ 20°C.....1.188 – 1.190

Pack Size: 500mL

## Dimethyl Popop Scintillation Grade

CAS 3073- 87-8  
 $C_{26}H_{20}N_2O_2 = 392.46$

### 746 Dimethyl Popop Scintillation Grade LABCHEM

Assay.....99% min.  
 M.P. ....234 – 235°C

Pack Size: 5g, 25g

## Dimethyl Sulphate

CAS 77-78-1  
 $(CH_3)_2SO_4 = 126.13$

U.N Number.....1595  
 ADG Class.....6.1  
 SUB.....8  
 Packing Group.....I



### 1031 Dimethyl Sulphate For Synthesis LABCHEM

Assay.....99% min.

Pack Size: 500mL

## Dimethyl Sulphide

CAS 75-18-3  
 $(CH_3)_2S = 62.13$

U.N Number.....1164  
 ADG Class.....3  
 Packing Group.....II



### 1032 Dimethyl Sulphide LABCHEM

Density.....about 0.85g/mL

Pack Size: 100mL

## Dimethylsulphoxide

CAS 67-68-5  
 $(CH_3)_2SO = 78.12$

### 262 Dimethylsulphoxide SPECTROSOL

Density.....1.100 g/mL  
 M.P. ....18°C  
 B.P. ....189°C  
 Assay (GC).....99.5% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by Coulometry)..... 0.05  
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum. ....To Pass test

Max. UV. Absorbance:				
$\lambda$ (nm)	300	330	340	350
Absorbance	0.10	0.05	0.022	0.009

**2225** **Dimethyl Sulphoxide** UNIVAR

**Description:** clear, colourless liquid.

**Appearance:** APHA 10 max.

Assay.....99.0% min.

Density (@ 25°C).....1.092 g/mL min.

Maximum limit of impurities(%)

R.A.E. .... 0.01

H<sub>2</sub>O..... 0.1

Titrateable acid..... 0.001 meq/g

**Pack Size:** 500mL, 2.5L, 25L

**747** **Dimethyl Sulphoxide** UNILAB

Density.....about 1.10g/mL

F.P.....18°C

Maximum limit of impurities(%)

Non-vol..... 0.05

H<sub>2</sub>O..... 1.0

**Pack Size:** 500mL, 2.5L, 20L

**1,3-Dinitrobenzene**

CAS 99-65-0  
C<sub>6</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub> = 168.11

U.N Number.....3443

ADG Class.....6.1

Packing Group.....II



**1034** **1,3-Dinitrobenzene (For determination of 17-Ketosteroids)** LABCHEM

Assay.....99% min.

M.P.....89 – 90°C

Maximum limit of impurities(%)

Sulphated ash..... 0.1

**Pack Size:** 25g

**2,4-Dinitrophenylhydrazine**

CAS 119-26-6  
(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHNH<sub>2</sub> = 198.14

U.N Number.....1325

ADG Class.....4.1

Packing Group.....II



**199** **2,4-Dinitrophenylhydrazine** UNIVAR

Reagent for aldehydes and ketones.

**Description:** orange-red crystalline powder. Moistened with water. The specification applies to dry material.

Assay.....99.0% min.

**Pack Size:** 25g, 100g

## 3,5-Dinitrosalicylic Acid

CAS 609-99-4  
 $C_7H_4N_2O_7 = 228.12$

### 1039 3,5-Dinitrosalicylic Acid (Reagent or obtaining molar reducing value for maltodextrines and for the colorimetric determination of amylase) UNILAB

Assay.....98% min.  
 M.P. ....169 – 170°C  
 Function test:  
 Suitability as reagent for. .... To pass test  
 determination of amylase activity

Pack Size: 25g

## 1,4 – Dioxane

CAS 123-91-1  
 $(CH_2)_4O_2 = 88.11$

U.N Number.....1165  
 ADG Class.....3  
 Packing Group.....II



### 1347 1,4 – Dioxane UNIVAR

Assay.....99.0% min.  
 Boiling Point.....100 - 102°C  
 Density (@ 25°C).....1.034  
 Dielectric Constant (@ 20°C).....2.25  
 Freezing Point.....11°C min.  
 R.I. (n<sub>20</sub><sup>o</sup>/D).....1.4220  
 Viscosity (@ 20°C).....1.54cps  
 Colour (APHA).....20

Maximum limit of impurities(%)

Carbonyl (as HCHO)..... 0.01  
 Peroxides (as H<sub>2</sub>O<sub>2</sub>)..... 0.005  
 R.A.E..... 0.005

Titration acid..... 0.0016 meq/g  
 H<sub>2</sub>O..... 0.05

Pack size: 2.5L

## Diphenylamine

CAS 122-39-4  
 $C_{12}H_{11}N = 169.22$

U.N Number.....3077  
 ADG Class.....9  
 Packing Group.....III



### 1041 Diphenylamine (Reagent for Nitrate) UNIVAR

Assay.....99% min.  
 Sensitivity to nitrate (NO<sub>3</sub>).....1:1600000 min.

Maximum limit of impurities(%)

Insoluble matter..... 0.01  
 Sulphated ash..... 0.02

NO<sub>3</sub>..... No reaction  
 Aniline (C<sub>6</sub>H<sub>5</sub>.NH<sub>2</sub>)..... 0.01

Pack Size: 100g

868

**Diphenylamine**

UNILAB

Appearance: white crystalline powder

Assay.....98.0% min

Maximum limit of impurities(%)

L.O.D.....0.3

Sulphated Ash.....0.03

Fe.....0.001

Pack size: 500g, 5Kg

**Diphenylamine-2-Carboxylic Acid** (See N-Phenylanthralinic Acid Page 331 )**Diphenylamine-4-Sulphonic Acid Barium Salt** (See Barium Diphenylamine-4-Sulphonate Page 78)**Diphenylcarbazine**

CAS 140-22-7

CO(NHNHC<sub>6</sub>H<sub>5</sub>)<sub>2</sub> = 242.28

3054

**Diphenylcarbazine**

LABCHEM

Adsorption indicator.

Assay (HPLC).....98% min.

M.P. ....173 – 176°C

Maximum limit of impurities(%)

Insol. in aqueous Acetone To pass test

Sulph. ash. ....0.05

Sensitivity to chromates. .... To pass test

Pack Size: 10g

**Diphenylcarbazine**

CAS 538-62-5

C<sub>6</sub>H<sub>5</sub>NHNHCONNC<sub>6</sub>H<sub>5</sub> = 240.26

U.N Number.....1325

ADG Class.....4.1

Packing Group.....III



1353

**Diphenylcarbazine**

LABCHEM

Reagent for mercury.

M.P. ....153°C -157°C

Maximum limit of impurities(%)

Sulph Ash. ....0.1

Suitability for det.of Hg. .... To pass test

Pack Size: 25g

**Diphenyl Ketone** (See Benzophenone Page 84 )**2,5-Diphenyloxazole** (See PPO Scintillation Grade Page 340 )**Diphenylthiocarbazine** (See Dithizone Page 188 )

## Di-Iso-Propyl Ether

CAS 108-20-3  
 $\{(CH_3)_2CH\}_2O = 102.18$

U.N Number.....1159  
 ADG Class.....3  
 Packing Group.....II



### 1356 Di-Iso-Propyl Ether

UNILAB

Assay.....96% min.  
 Density.....about 0.723 – 0.726 g/mL  
 B.R. (95% min).....66 – 69°C  
 R.I .....1.3660 – 1.3700

Maximum limit of impurities(%)

Non Vol..... 0.005  
 Water..... 0.5

Peroxides (as H<sub>2</sub>O<sub>2</sub>)..... 0.003%

Pack Size: 2.5L

## Dipropylene Glycol

CAS 25265-71-8  
 $HOC_3H_6OC_3H_6OH = 134.18$

### 1331 Dipropylene Glycol

UNILAB

Assay.....99.0% min.

Pack size: 500mL, 1L

**2,2'-Dipyridyl** (See 2-2-Bipyridyl Page 90 )

**2,2'-Diquinolyl** (See 2,2'-Biquinoline Page 90 )

**Direct Blue 53** (See Evans Blue Page 203 )

**Direct Yellow 9** (See Titan Yellow Page 452 )

**Di-Sodium Phenyl Phosphate** (See Phenyl Disodium Orthophosphate Page 333 )

## Disodium Succinate Hexahydrate

CAS 6106-21-4  
 $C_4H_4Na_2O_4 \cdot 6H_2O = 270.14$

### 432 Disodium Succinate Hexahydrate (Substrate for investigation of the respiratory enzyme system)

LABCHEM

Assay (HClO<sub>4</sub> titration on.....99% min.  
 anhydrous substance)

Maximum limit of impurities(%)

H<sub>2</sub>O..... 38 – 40%

Pack Size: 500g

## Dithio-Oxamide

CAS 79-40-3  
(CSNH<sub>2</sub>)<sub>2</sub> = 120.20

### 2484 Dithio-Oxamide

UNILAB

Reagent for Bi and Cu.  
Assay.....98% min.

Maximum limit of impurities(%)  
Suitability for Cu detn.....To pass test

Pack Size: 25g

## Dithizone

CAS 60-10-6  
C<sub>6</sub>H<sub>5</sub>N:NCSNHNHC<sub>6</sub>H<sub>5</sub> = 256.32

### 208 Dithizone

UNIVAR

Reagent for Hg, Pb, Zn. Metal indicator.  
Assay.....98.0% min.  
Ratio of Absorbances.....1.55 min

Maximum limit of impurities(%)  
H.M. (as Pb)..... 0.002                      Sulphated ash..... 0.3

Pack Size: 5g

## DL Mandelic Acid

CAS 90-64-2  
C<sub>8</sub>H<sub>8</sub>O<sub>3</sub> = 152.15

### 3072 DL Mandelic Acid

LABCHEM

ASSAY (by acidimetry).....>99%  
M.P. ....116 – 120°C

Pack Size: 250g

**DMP** (See Dimethyl Phthalate Page 182 )

**DMSO** (See Dimethyl Sulphoxide Page 183 )

**DNP** (See 2-4-Dinitrophenylhydrazine Page 184 )



## 1-Dodecanesulphonic Acid, Sodium Salt

CAS 2386-53-0  
 $\text{CH}_3(\text{CH}_2)_{11}\text{SO}_3\text{Na}$  = 272.38

### 1354 1-Dodecanesulphonic Acid, Sodium Salt

UNICHROM

Assay.....99.0%

Optical Absorbance of 5% solution:

210nm.....0.05

220nm.....0.03

230nm.....0.02

Pack size: 10g

**Dodecanoic Acid** (See Lauric Acid Page 250 )

**DPC** (See N-Phenylanthralinic Acid Page 331 )

## D.P.X. Neutral Mounting Medium

CAS 1330-20-7

U.N Number.....1993

ADG Class.....3

Packing Group.....II



### 3197 D.P.X. Neutral Mounting Medium

OP

Refractive index (n 20/D).....1.518 – 1.521

Viscosity (20°C).....600 – 700 mPa.s

Suitability for microscopy.....To pass test

Pack Size: 100mL, 500mL

## Drierite

CAS 7778-18-9  
 $\text{CaSO}_4$  = 136.14

### 2497 Drierite, Indicating, 10-20 mesh

LABCHEM

Calcium sulphate for drying - 10-20 mesh Colour change: Blue(active) to rose-red(exhausted)

Drying capacity, 10-14% w/w

Pack Size: 500g

## Drierite

CAS 7778-18-9  
 $\text{CaSO}_4$  = 136.146

### 2496 Drierite, Indicating, 8 mesh

LABCHEM

Description: Calcium sulphate for drying - 8 mesh Colour change: blue(active) to rose-red(exhausted)

Pack Size: 500g, 5kg

## Ecoteric T20

CAS 9005-64-5

### 2509 Ecoteric T20

LABCHEM

Yellow- to amber- coloured liquid.

Hydroxyl value.....96 - 108mg KOH/g

Saponification value.....40-50mg KOH/g

Maximum limit of impurities(%)

Water.....3

Acid Value.....2.0

Pack Size: 500mL

## Ecoteric T80

CAS 9005-65-6

### 2510 Ecoteric T20

LABCHEM

Polyoxyethylene (20) sorbitan mono-oleate.

Yellow liquid.

Acid Value (max).....2.2mg KOH/g

Density.....1.08 g/mL approx.

HLB.....15.

Saponification Value.....45.0 – 55.0mg KOH/g

Hydroxyl Value.....65.0 – 80.0mg KOH/g

Maximum limit of impurities(%)

R.O.I.....0.25

H<sub>2</sub>O.....3.0

H.M.....0.0010

Dioxane.....10ppm

Pack Size: 500mL, 20L

**EDB** (See 1-2-Dibromoethane Page 167 )

**Ehrlich'S Reagent** (See 4-Dimethylaminobenzaldehyde Page 179 )

## Eosin B

CAS 548-24-3

C<sub>20</sub>H<sub>6</sub>Br<sub>2</sub>Na<sub>2</sub>N<sub>2</sub> = 624.05

### 3055 Eosin B

UNILAB

Appearance: very dark purple-red to dark brown cryst. powder

Dye content:.....>85% max.

Absorption maximum:.....511 – 520nm

Absorption Ratio:.....P-15/P+15 0.96 – 1.22

Pack size: 25g

## Eosin

U.N Number.....1170  
 ADG Class.....3  
 Packing Group.....II


**1824** Eosin, Alcoholic Stain LABCHEM

1% in Ethanol

Pack Size: 1L, 5L

**1823** Eosin Aqueous Stain LABCHEM

1% in aqueous solution

Pack Size: 1L, 5L

## Eosin Yellowish

CAS 17372-87-1

**3199** Eosin Yellowish, Water and alcohol soluble (CI45380) OP

Stain for microscopy.  
 Adsorption & fluorescent indicator.

Pack Size: 25g, 1kg

**Epsom Salt** (See Magnesium Sulphate Hydrated Page 267 )

## Eriochrome Black T (CI 14645)

CAS 1787-61-7

**3200** Eriochrome Black T (CI 14645) OP

Stain for microscopy. Metal indicator.

Pack Size: 25g

## Eriochrome Blue Black R (CI 15705)

CAS 2538-85-4

**2475** Eriochrome Blue Black R (CI 15705) LABCHEM

Metal indicator.

Pack Size: 100g

## Erythrosine B For Microscopy( CI 45430)

CAS 16423-68-0

Synonym: Acid Red 51; tetraiodo fluorescein, disodium salt

$C_{20}H_6I_4Na_2O_5 = 879.84$

### 3201 Erythrosine B For Microscopy( CI 45430)

OP

Description: Dark red powder, water soluble  
Absorption.....524 – 527nm max.

Pack Size: 25g

## Esbach'S Reagent

CAS 2538-85-4

### 728 Esbach'S Reagent For Detection Of Proteins

LABCHEM

Pack Size: 125 mL

Ethanedioic Acid Dihydrate (See Oxalic Acid Page 318 )

## Ethanediol

CAS 107-21-1

$CH_2OHCH_2OH = 62.07$

### 210 Ethanediol

UNILAB

Assay.....99.5%min  
Density.....1.112 – 1.115g/mL  
R.I. ....1.431 –1.432

Maximum limit of impurities(%)

Sulph. ash. .... 0.01

Acidity. ....0.1 mmol H

Total chlorine (as Cl)..... 0.006

SO<sub>4</sub>..... 0.005

Pack Size: 500mL, 2.5L, 20L

Ethanethioamide (See Thioacetamide Page 447 )

Ethanoic Anhydride (See Acetic Anhydride Page 22 )

# Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Ethanol

CAS 64-17-5  
C<sub>2</sub>H<sub>5</sub>OH = 46.07

U.N Number.....1170  
ADG Class.....3  
Packing Group.....II



**214**

### Ethanol, Absolute

UNIVAR

**Description:** clear liquid with a mild characteristic odour; hygroscopic.

Assay.....99.5% v/v min.  
Colour (APHA).....10 max.  
Density (@ 25°C).....0.7876g/mL max.

Maximum limit of impurities(%)

R.A.E.,Acetone.....	0.001	Cu.....	0.00001
Titratable acid.....	0.0005 meq/g	Fe.....	0.00001
Titratable base.....	0.0002 meq/g	Zn.....	0.00001
Na.....	0.0001	Mg.....	0.00001
Sol.in H <sub>2</sub> O.....	passes test	Ba.....	0.000002
Methanol.....	0.1	Cr.....	0.000002
Propan-2-ol.....	0.003	Co.....	0.000002
H <sub>2</sub> O.....	0.2	Mn.....	0.000002
Reaction to KMnO <sub>4</sub> ,H <sub>2</sub> SO <sub>4</sub> (each).....	passes test	Ni.....	0.000002
Ca.....	0.00005	Sr.....	0.000002
Al.....	0.00001	Cd.....	0.000005
K.....	0.00001	Pb.....	0.000005

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

**1045**

### Ethanol Absolute

UNILAB

Assay.....99.5% v/v min.  
B.R. (95% min.).....77 – 79°C  
Density.....0.7935 g/mL max.  
R.I.....1.360 – 1.363

Maximum limit of impurities(%)

Non-vol.....	0.01	CH <sub>3</sub> OH.....	0.1
Acidity or alkalinity.....	0.1 mmol H or OH	H <sub>2</sub> O.....	0.6

Pack Size: 500mL, 2.5L, 20L, 200L

**914**

### Ethanol Absolute

LABCHEM

Assay.....99.0% v/v min.  
Density(@25°C).....0.79 g/mL max.

Pack Size: 500ML, 2.5L

**5077**

### Ethanol Absolute HP

LABCHEM

Solvent for Histopathology

Pack Size: 10L, 20L

## Ethanol 96%

CAS 64-17-5  
C<sub>2</sub>H<sub>5</sub>OH = 46.07

U.N Number.....1170  
ADG Class.....3  
Packing Group.....II



### 1046 Ethanol 96%

UNIVAR

**Description:** clear liquid with a mild, characteristic odour.  
Assay.....96.0% v/v min.  
Colour (APHA).....10 max  
Density (@ 25°C).....0.807g/mL max.

Maximum limit of impurities(%)

R.A.E.,Acetone..... 0.001  
Titratable acid..... 0.05 mmol H  
Titratable base..... 0.02 mmol OH  
Na..... 0.0001  
Ca..... 0.00005  
Methanol..... 0.1  
Propan-2-ol..... 0.003  
Sol.in H<sub>2</sub>O,Fusel oil (each).....To pass test  
Subs. red. KMnO<sub>4</sub>.....To pass test  
Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test  
Al..... 0.00001  
K..... 0.00001  
Fe..... 0.00001

Zn..... 0.00001  
Ba..... 0.000002  
Cr..... 0.000002  
Co..... 0.000002  
Cu..... 0.000002  
Mn..... 0.000002  
Ni..... 0.000002  
Sr..... 0.000002  
Cd..... 0.000005  
Pb..... 0.000005  
Mg..... 0.000005  
Volatile Impurities..... To pass test  
Benzene..... 0.0002

Chemical and physical parameters conform to BP and FCC  
Conforms to ACS

Pack Size: 500mL, 2.5L, 20L, 200L

### 1047 Ethanol 96%

UNILAB

**Description:**A clear liquid with a mild characteristic odour.  
Assay.....96.0% v/v min.  
Density (@ 25°C).....0.8096 g/mL max.

Maximum limit of impurities(%)

Non-vol..... 0.005  
Clarity of soln.....clear  
Acidity or alkalinity..... 0.1 mmol H or OH  
Aldehydes (as CH<sub>3</sub>COH)..... 0.0010

Benzene (C<sub>6</sub>H<sub>6</sub>)..... 0.0005  
Subs.red.KMnO<sub>4</sub>.....To pass test  
Volatile impurities..... To pass test

Pack Size: 500mL, 2.5L, 5L, 20L, 200L

### 5004 Ethanol 95%

HP

Solvent for Histopathology

Pack Size: 10L, 20L

### 5078 Ethanol 100 IMS

HP

Solvent for Histopathology

Pack Size: 10L, 20L

### 726 Ethanol 70% w/w (80% v/v)

LABCHEM

Pack Size: 20L

## Ethanolamine

CAS 141-43-5  
 $\text{CH}_2\text{OH}\cdot\text{CH}_2\text{NH}_2 = 61.08$

U.N Number.....2491  
 ADG Class.....8  
 Packing Group.....III



26

### Ethanolamine

UNILAB

Density.....about 1.02g/mL  
 F.P. ....about 10.5°C  
 Assay.....97.0% min.  
 R.I. ....1.453 – 1.455

Maximum limit of impurities(%)  
 Sulph. ash. .... 0.05  
 $\text{H}_2\text{O}$ ..... 0.6  
 Store above 10°C

Pack Size: 500mL, 2.5L, 20L

## 2-Ethoxyethanol

CAS 110-80-5  
 $\text{C}_2\text{H}_5\text{OCH}_2\text{CH}_2\text{OH} = 90.12$

U.N Number.....1171  
 ADG Class.....3  
 Packing Group.....III



211

### 2-Ethoxyethanol

UNILAB

Density.....about 0.93g/mL  
 Assay(GC).....99.0% min.

Maximum limit of impurities(%)  
 $\text{H}_2\text{O}$ ..... 0.2

Pack Size: 500mL, 2.5L, 20L

## Ethyl Acetate

CAS 141-78-6  
 $\text{CH}_3\text{COOC}_2\text{H}_5 = 88.11$

U.N Number.....1173  
 ADG Class.....3  
 Packing Group.....III



259

### Ethyl Acetate

SPECTROSOL

Density.....0.901 g/mL  
 M.P. ....-83°C  
 B.P. ....77.1°C  
 Assay (GC).....99.8% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by Coulometry)..... 0.02  
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum.....To Pass test

**Max. UV. Absorbance:**  

$\lambda$ (nm)	260	270	280
Absorbance	0.12	0.022	0.009





## Ethyl Benzoate

CAS 93-89-0  
 $C_6H_5COOC_2H_5 = 150.18$

### 3057 Ethyl Benzoate

OP

Density.....about 1.047 g/mL.  
 R.I. ....1.505  
 B.R. ....211-213°C  
 Assay.....99% min.

Pack Size: 500g

## Ethyl Carbamate

CAS 51-79-6  
 $C_3H_7NO_2 = 89.09$

### 1051 Ethyl Carbamate

LABCHEM

Assay.....99 - 101%  
 M.R. ....48 - 50°C

Maximum limit of impurities(%)

Sulph Ash. .... 0.1  
 $H_2O$  (K.F). .... 1.0

H.M (as Pb)..... 0.001  
 Cl. .... 0.001

Pack Size: 500g

## Ethyldigol

CAS 111-90-0  
 $CH_3CH_2OCH_2CH_2OCH_2CH_2OH = 134.18$

### 1360 Ethyldigol

UNILAB

Density.....about 0.99g/mL  
 R.I. ....about 1.427

Maximum limit of impurities(%)

$H_2O$ ..... 0.2

Pack size: 2.5L

**Ethyl Bromide** (See Bromoethane Page 99 )

**Ethyl Di-Icinol** (See Ethyldigol Page 197 )

# Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Ethylenediaminetetra-Acetic Acid (EDTA)

CAS 60-00-4  
 $C_{10}H_{16}N_2O_8 = 292.25$

### 663 Ethylenediaminetetra-Acetic Acid UNIVAR

Description: colourless crystals or a white crystalline powder.  
Assay.....99.4 - 100.6%

Maximum limit of impurities(%)		
Insol. (dil. $NH_4OH$ ).....	0.005	
R.A.I.....	0.2	Fe..... 0.005
Nitrilotriacetic acid.....	0.1	H.M. (as Pb)..... 0.001
Ca.....	0.001	Mg..... 0.0005

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 10kg

### 179 Ethylenediaminetetra-Acetic Acid [EDTA] UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)		
Sulph. ash.....	0.5	H.M. (as Pb)..... 0.01

Pack Size: 500g, 5kg

## Ethylenediaminetetraacetic Acid (EDTA) Ferric Monosodium Salt

CAS 15708-41-5  
 $C_{10}H_{12}FeN_2NaO_8 = 367.05$

### 2308 Ethylenediaminetetraacetic Acid (EDTA) Ferric Monosodium Salt LABCHEM

Appearance: Brown-coloured crystalline powder  
Assay.....99.0% min.

Maximum limit of impurities(%)		
Fe.....	0.001	L.O.D..... 1.0
H.M. (as Pb).....	0.001	Sulphated ash..... 0.1

Pack Size: 100g, 5kg

## EDTA Di-Potassium Salt

CAS 2001-94-7  
 $C_{10}H_{14}O_8N_2K_2 \cdot 2H_2O = 404.46$

### 2406 EDTA Di-Potassium Salt LABCHEM

Assay.....98% min.

Pack Size: 100g

## Ethylenediaminetetra-Acetic Acid [EDTA] di-sodium salt

CAS 6381-92-6

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O = 372.24$

### 180 Ethylenediaminetetra-Acetic Acid [EDTA] di-sodium salt UNIVAR

**Description:** white crystalline powder.

Assay.....99.0 - 101.0%

pH (5% soln. @ 25°C).....4.0 – 6.0

Maximum limit of impurities(%)

Insol..... 0.005

Nitilotriacetic acid..... 0.1

H.M. (as Pb)..... 0.005

Ca..... 0.002

Cu..... 0.0001

Fe..... 0.0005

Pb..... 0.0005

Ni..... 0.0005

Conforms to ACS

**Pack Size:** 100g, 500g, 5kg, 25kg

### 181 EDTA di-Sodium salt UNILAB

Assay.....98% min.

pH.....(5% soln.) 4.0 – 6.0

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.05

**Pack Size:** 500g, 5kg, 25kg

### 183 EDTA di-Sodium salt LABCHEM

**Description:** Odourless free-flowing white powder.

Assay via Fe-Pot %.....99% min.

pH (1% soln.).....4.0 – 5.0

**Pack Size:** 25kg

### 2222 EDTA di-Sodium Salt 0.050M Solution UNIVOL

Stabilized with sodium azide.....0.01%.

Molarity.....0.0500 +/- 0.0005M

**Pack Size:** 2.5L

### 727 EDTA Disodium Salt 0.1000m Solution UNIVOL

Stabilized with sodium azide.....0.01%.

Molarity.....0.0995 - 0.1005mol/L

**Pack Size:** 6X1L, 2.5L

### 1377 Ethylenediaminetetraacetic Acid (EDTA),di-Sodium Salt 0.1mol Concentrate, Ampoule OP

**Description:** plastic ampoule containing clear colourless liquid

0.1 mole (37.22g  $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$ ) to prepare 1L of 0.1M solution

Titer.....0.998 – 1.002

**Pack size:** Ampoule

## EDTA Tetra-Sodium Salt Hydrate

CAS 64-02-8  
 $\{\text{CH}_2\text{N}(\text{CH}_2\text{COONa})_2\}_2 + \text{aq}$

### 182 EDTA Tetra-Sodium Salt Hydrate

UNILAB

pH (5% soln.).....about 11.5  
Assay.....about 98.5% min.

Pack Size: 500g, 5kg

## Ethylene Diamine Tetra Acetic Acid Magnesium Disodium Salt

CAS 14402-88-1  
 $\text{C}_{10}\text{H}_{12}\text{MgN}_2\text{Na}_2\text{O}_8 = 358.5$

### 3122 Ethylene Diamine Tetra Acetic Acid Magnesium Disodium Salt

LABCHEM

Assay (KT dried material).....98.5% min.

Pack Size: 100g

## Ethyl Cyanoacetate

CAS 105-56-6  
 $\text{C}_5\text{H}_7\text{NO}_2 = 113.11$

U.N Number.....2810  
ADG Class.....6.1  
Packing Group.....III



### 1053 Ethyl Cyanoacetate

UNILAB

Assay (by GC).....98% min.  
Density @ 20°C.....1.061 – 1.062

Maximum limit of impurities(%)

Acidity..... 0.005

$\text{H}_2\text{O}$ ..... 0.2

Pack Size: 500mL

# Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.

### Summary of Ampoules available

#### Cat-No Description

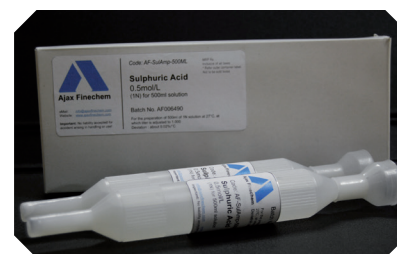
**1366** Hydrochloric Acid 0.1M  
**1395** Oxalic Acid 0.05M  
**1373** Sulphuric Acid 0.05M  
**1398** Ammonium Thiocyanate 0.1M

#### Cat-No Description

**1376** Silver Nitrate 0.1M  
**1377** EDTA 0.1M  
**1396** Iodine 0.01M  
**1359** Potassium Dichromate 1/60M

#### Cat-No Description

**1378** Potassium Hydroxide 0.1M  
**1361** Potassium Permanganate 0.02M  
**1386** Sodium Hydroxide 0.1M  
**1388** Sodium Thiouplhate 0.1M



**Ethylene Dibromide** (See 1-2-Dibromoethane Page 167 )

**Ethylene Dichloride** (See 1-2-Dichloroethane Page 170 )

**Ethylene Chlorhydrin** (See 2-Chloroethanol Page 137 )

**Ethylene Glycol Dimethyl Ether** (See 1,2-Dimethoxyethane Page 178 )

**Ethylene Glycol Monophenyl Ether** (See 2-Phenoxyethanol Page 330 )

**Ethylene Glycol** (See Ethanediol Page 192 )

**Ethylene Glycol Monobutyl Ether** (See 2-Butoxyethanol Page 108 )

**Ethylene Glycol Monomethyl Ether** (See 2-Methoxyethanol Page 285 )

**N-Ethylethannamine** (See Diethylamine Page 174 )

**Ethyl Ester** (See Ethyl Acetoacetate Page 196 )

**Ethyl Ethanoate** (See Ethyl Acetate Page 195 )

**Ethyl Ether** (See Anaesthetic Ether Page 175 )

## Ethyl Formate

CAS 109-94-4  
HCOOC<sub>2</sub>H<sub>5</sub> = 74.08

U.N Number.....1190  
ADG Class.....3  
Packing Group.....II



### 1362 Ethyl Formate

UNILAB

Assay(GC).....97% min.  
Density @ 20°C.....0.910 - 0.923 g/mL

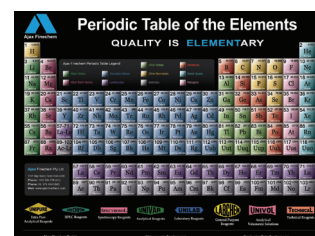
Pack Size: 500mL

**Ethyl Iodide** (See Iodoethane Page 239 )

**Ethyl Malonate** (See Diethyl Malonate Page 177 )

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Ethyl Methyl Ketone

CAS 78-93-3  
 $C_2H_5COCH_3 = 72.11$

U.N Number.....1193  
ADG Class.....3  
Packing Group.....II



### 218 Ethyl Methyl Ketone

UNILAB

Density.....about 0.80g/mL  
B.R.(95% min.).....79 – 81°C  
Assay.....99.5% min

Maximum limit of impurities(%)

Non-vol..... 0.01

Acidity (as  $CH_3COOH$ )..... 0.01

Pack Size: 500mL, 2.5L, 20L

### 219 N-Ethylpiperidine

TECHNICAL

Assay.....99.0% min.  
Density.....about 0.80g/mL

Pack Size: 2.5L

## N-Ethylpiperidine

CAS 766-09-6  
 $C_5H_{10}NC_2H_5 = 113.20$

U.N Number.....2386  
ADG Class.....3  
SUB.....8  
Packing Group.....II



### 326 N-Ethylpiperidine

UNILAB

Density.....about 0.82g/mL  
Assay.....98.5% min.  
B.R. (95% min.).....128 – 131°C  
R.I. ....1.444 – 1.445

Pack Size: 100 mL

Ethylene Trichloride (See Trichloroethylene Page 458 )

Ethynyl Trichloride (See Trichloroethylene Page 458 )

Eucalyptol (See Cineole Page 146 )

## Eugenol

CAS 97-53-0  
 $C_{10}H_{12}O_2 = 164.20$

### 1058 Eugenol

LABCHEM

Assay (GC).....99% min.  
Density @ 20°C.....1.064 – 1.065  
R.I. @ 20°C.....~1.5405

Pack Size: 100 mL

## Evans Blue (C.I.23860)

CAS 314-13-6

U.N Number.....3143

ADG Class.....6.1

Packing Group.....III



### 3203 Evans Blue (C.I.23860)

OP

Stain for microscopy.

Pack Size: 5g

FA (See Furfuryl Alcohol Page 211 )

## Fast Blue BB Salt (C.I. 37175)

CAS 15518-68-0

 $C_{17}H_{18}N_3O_3 \cdot \frac{1}{2}ZnCl_2 = 415.9$ 

### 3205 Fast Blue BB Salt (C.I. 37175)

LABCHEM

Appearance: greenish yellow amorphous powder

Dye content.....80.0% min

Pack size: 25g

## Fast Green FCF

CAS 2353-45-9

 $C_{37}H_{34}N_2O_{10}S_3Na_2 = 808.85$ 

### 3206 Fast Green FCF

LABCHEM

Appearance: Bordeaux to maroon powder

Dye content.....about 85.0%

Absorption maximum.....622 – 626nm

Absorption ratio P-15/P+15.....0.98 – 1.2

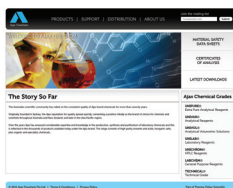
Pack size: 25g

### 799 Fehlings Solution No 1

LABCHEM

Used for determination of invert sugar in conjunction with Cat. 800.

Pack Size: 500mL, 2.5L



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

## Fehlings Solution No 2 B P

U.N Number.....1760  
ADG Class.....8  
Packing Group.....II



### 800 Fehlings Solution No 2 B P

LABCHEM

**Description:** Used for the determination of invert sugar in conjunction with Cat. 799.

**Pack Size:** 500mL, 2.5L, 20L

**Ferric Chloride** (See Iron (III) Chloride Anhydrous Page 242 )

**Ferric Citrate** (See Iron (III) Citrate Granular Page 242 )

**Ferric Nitrate** (See Iron (III) Nitrate Page 243 )

**Ferric Oxide** (See Iron (III) Oxide pted Red Page 244 )

**Ferric Sulphate** (See Iron (III) Sulphate Pdr Page 245 )

### 717 Ferroin 0.025 M Solution

LABCHEM

Redox indicator.  
Transition EMF (@ pH=0).....+1.06V  
Transition EMF (@ pH=7).....+ 1.12V  
Colour change: Oxidized (faint blue) to reduced (red)

**Pack Size:** 100mL

**Ferrous Chloride** (See Iron (II) Chloride Page 241 )

**Ferrous Sulphate** (See Iron (II) Sulphate Page 244 )

**Ferrous Sulphide** (See Iron (II) Sulphide Sticks Page 244 )

### 3209 Field Stain A For Microscopy

LABCHEM

**Pack Size:** 25g

### 3210 Field Stain B For Microscopy

LABCHEM

**Pack Size:** 25g

## Filter Aid Med Hyflo

CAS 68855-54-9

### 1739 Filter Aid Med Hyflo

UNIVAR

Flux calcined diatomaceous earth  
Retention (270 mesh).....20%  
S.G. ....(approx) 2.15 g/mL  
L.O.I. ....(approx) 0.5%

**Pack Size:** 500g



## Florisil 60/100 Mesh, Pest. Residue Grade

CAS 1343-88-0

### 2551 Florisil 60/100 Mesh, Pest. Residue Grade

LABCHEM

Activated magnesium silicate for pesticide residue analysis. Activation temperature 650°C.

Pack Size: 1kg

Flowers Of Sulphur (See Sulphur Sublimed Page 438 )

## Fluoboric Acid 50% w/w Solution

CAS 16872-11-0

HBF<sub>4</sub> = 87.81

U.N Number.....1775

ADG Class.....8

Packing Group.....II



### 2577 Fluoboric Acid 50% w/w Solution

UNILAB

Assay.....49.5 - 50.5%

Maximum limit of impurities(%)

Cu. .... 0.0005

Pb. .... 0.05

Fe. .... 0.005

Zn. .... 0.0005

Ni. .... 0.0005

Chloride (Cl)..... 0.005

Free boric acid (H<sub>3</sub>BO<sub>3</sub>)..... 2Fluosilicic acid(H<sub>2</sub>SiF<sub>6</sub>)..... 0.02SO<sub>4</sub>..... 0.002

Pack Size: 500mL

## 1-Fluoro-2,4-Dinitrobenzene

CAS 70-34-8

C<sub>3</sub>H<sub>3</sub>FN<sub>2</sub>O<sub>4</sub> = 186.1

U.N Number.....2811

ADG Class.....6.1

Packing Group.....II



### 2207 1-Fluoro-2,4-Dinitrobenzene

UNILAB

Appearance: Pale yellow crystals

Assay.....98.0% min.

Maximum limit of impurities(%)

Ca. .... 0.005

Cd. .... 0.005

Cu. .... 0.005

Fe. .... 0.005

Pack size: 25g

## Fluorescein (CI 45350)

CAS 2321-07-5

C<sub>20</sub>H<sub>12</sub>O<sub>5</sub> = 332.32

### 2205 Fluorescein (CI 45350)

LABCHEM

Adsorption indicator.

Pack Size: 100g

## Fluorescein Sodium Salt (CI 45350)

CAS 518-47-8  
 $C_{20}H_{10}O_5Na_2 = 376.28$

### 229 Fluorescein Sodium Salt (CI 45350)

LABCHEM

Water soluble. Used for tracing water courses etc.  
Effective visual indication at 2 mg/L.

Pack Size: 100g, 500g, 5kg

Fluoroboric Acid (See Fluoboric Acid 50 % w/w Page 205 )

## Fluosilicic Acid 34% w/w

CAS 16961-83-4

U.N Number.....1778  
ADG Class.....8  
Packing Group.....II



### 1250 Fluosilicic Acid 34% w/w

TECHNICAL

Pack Size: 500 mL

## Folin & Ciocalteus Reagent

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 665 Folin & Ciocalteus Reagent

LABCHEM

Golden yellow clear liquid.  
For phenol determination.  
Reaction with phenol - positive

Pack Size: 500mL

# Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation



Simply visit: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)

## Formaldehyde Solution

CAS 50-00-0  
HCHO = 30.03

U.N Number.....2209  
ADG Class.....8  
Packing Group.....III



809

### Formaldehyde Solution

UNIVAR

**Description:** clear liquid when packed, with a strong, pungent, characteristic odour. A white deposit of paraformaldehyde may form on storage.

Assay.....36.5 - 38.0% w/w  
Methanol.....6.5-7.5% w/w  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.I.....	0.005	Fe.....	0.0005
Titrateable acid.....	0.006 meq/g	H.M. (as Pb).....	0.0005
SO <sub>4</sub> .....	0.002	Chlorides.....	0.0035

Store between 25 and 35°C

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

230

### Formaldehyde Solution

UNILAB

**Description:** colourless liquid, odour, characteristic, pungent, and irritating. A slight white deposit may form on storage.

Assay.....34.5 - 38.0% w/w  
Methanol (GC).....9.0-10.0% v/v

Maximum limit of impurities(%)

Acidity.....	.5 mmol H	Sulphated Ash.....	0.1%
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Store between 25 and 35°C

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L, 5L, 20L, 200L

84

### Formaldehyde 37% Solution

TECHNICAL

Assay.....about 36% w/w  
Density.....about 1.09g/mL

Pack Size: 2.5L

Formalin (See Formaldehyde Soln Page 207 )

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Formamide

CAS 75-12-7  
HCONH<sub>2</sub> = 45.04

### 702 Formamide

UNILAB

Density.....about 1.13g/mL  
M.P.....about 2°C  
Assay.....99.5% min.  
F.P.....2°C min.  
B.R.....about 111 – 112°

Maximum limit of impurities(%)

Non-vol..... 0.05  
Acidity (as HCOOH)..... 0.1  
Amm Formate..... 0.1

Methanol..... 0.1  
H<sub>2</sub>O..... 0.05

Pack Size: 500mL, 20L, 2.5L

Formdimethylamide (See N-N-Dimethylformamide Page 181 )

## Formic Acid 99%

CAS 64-18-6  
HCOOH = 46.03

U.N Number.....1779  
ADG Class.....8  
SUB.....3  
Packing Group.....II



### 2471 Formic Acid 99%

UNIVAR

**Description:** clear liquid with a pungent odour.

Density.....about 1.22g/mL  
Assay.....98.0% w/w min.  
F.P.....5.5°C min.

Maximum limit of impurities(%)

H<sub>2</sub>O-insol..... passes test  
Non-vol..... 0.002  
Cl..... 0.0005  
N cpds (as N)..... 0.002  
SO<sub>3</sub>..... 0.001

SO<sub>4</sub>..... 0.001  
Cu..... 0.0005  
Fe..... 0.0003  
Pb..... 0.0005  
CH<sub>3</sub>COOH..... 0.3

Pack Size: 500mL, 2.5L

### 1063 Formic Acid 90%

UNIVAR

**Description:** clear, colourless or almost colourless, corrosive liquid with a pungent odour.

Density.....about 1.2g/mL  
Assay.....89.0 - 91.0% w/w

Maximum limit of impurities(%)

Non-vol..... 0.005  
Dil. Test..... To pass test  
Cl..... 0.001  
SO<sub>4</sub>..... 0.002  
SO<sub>3</sub>..... To pass test

Fe..... 0.0005  
H.M. (as Pb)..... 0.0005  
NH<sub>4</sub>..... 0.01  
CH<sub>3</sub>COOH..... 0.4

Pack Size: 500mL, 2.5L



## Fuchsin Acid (CI 42685)

CAS 3244-88-0

### 3212 Fuchsin Acid (CI 42685)

LABCHEM

Stain for microscopy.

Pack Size: 25g

## Fuchsin Basic Pure For Schiffs/Feulgen (CI 42510)

CAS 632-99-5

### 3213 Fuchsin Basic Pure For Schiffs/Feulgen (CI 42510)

LABCHEM

For microscopy. Specially prepared and purified for use in Schiff's and Feulgen reagents.

Pack Size: 25g

## Fullers Earth

CAS 8031-18-3

### 238 Fullers Earth

TECHNICAL

A sodium type bentonite comprising mainly montmorillonite.

Typical analysis below: SiO<sub>2</sub> 59.5%, Al<sub>2</sub>O<sub>3</sub> 21.0%, Fe<sub>2</sub>O<sub>3</sub> 6.5%

L.O.I.....8.3%

Pack Size: 500g

## Fumaric Acid

CAS 110-17-8

C<sub>4</sub>H<sub>4</sub>O<sub>4</sub> = 116.07

### 1557 Fumaric Acid

UNILAB

Appearance: white to colourless granules or crystalline powder

Assay.....99.0% min.

Pack size: 500g, 5Kg

## Furfuraldehyde

CAS 98-01-1

C<sub>5</sub>H<sub>4</sub>O<sub>2</sub> = 96.09

U.N Number.....1199

ADG Class.....6.1

SUB.....3

Packing Group.....II



### 1066 Furfuraldehyde

TECHNICAL

R.I. ....about 1.5257 (20°C, 589nm)

Maximum limit of impurities(%)

H<sub>2</sub>O (KF)..... 0.05

Pack Size: 500mL, 2.5L

## Furfuryl Alcohol

CAS 98-00-0

Synonyms: FA, 2-Hydroxymethyl furan

C<sub>5</sub>H<sub>6</sub>O<sub>2</sub> = 98.10

U.N Number.....2874

ADG Class.....6.1

Packing Group.....III



### 1558 Furfuryl Alcohol For Synthesis

LABCHEM

Assay.....>98%  
Density @ 20°C.....1.132 – 1.133

Maximum limit of impurities(%)  
H<sub>2</sub>O..... 0.2

Pack Size: 500 mL

**GABA** (See 4-Aminobutyric Acid Page 44 )

## D(+)-Galactose

CAS 59-23-4

C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> = 180.16

### 239 D(+)-Galactose

UNIVAR

**Description:** white crystalline powder. Specific Rotation +79.0 to +81°  
**Appearance** (10% solution) Clear & colourless

Maximum limit of impurities(%)  
Water (KF)..... 0.3                      Sulphated Ash..... 0.1

Pack Size: 100g, 500g

### 240 D(+)-Galactose

UNILAB

Suitable for liver function tests.  
M.P. ....165-168°  
Spec. rotn. ....+79.0 to +81.2°

Pack Size: 100g

## Gallic Acid Monohydrate

CAS 5995-86-8

Synonyms: 3,4,5 Trihydroxybenzoic acid

C<sub>7</sub>H<sub>6</sub>O<sub>5</sub>·H<sub>2</sub>O = 188.14

### 222 Gallic Acid Monohydrate

UNILAB

Assay.....99.5% min.

Maximum limit of impurities(%)  
Cl..... 0.01                      Sulphated ash..... 0.1  
SO<sub>4</sub>..... 0.005                      Tannic acid.....To pass test  
H<sub>2</sub>O..... 8 – 10

Pack Size: 500g

## Gelatine powder

CAS 9000-70-8

**1080** Gelatine powder

LABCHEM

Pack Size: 500g

## Gentian Violet (CI 42555)

CAS 548-62-9

**3214** Gentian Violet (CI 42555)

OP

Stain for microscopy.

Pack Size: 25g

## Gibberellic Acid

CAS 77-06-5

$C_{19}H_{22}O_6 = 346.38$

**3060** Gibberellic Acid

LABCHEM

Appearance: white amorphous powder

Assay.....90.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

L.O.D. ....1

Sulphated ash..... 0.2

Pack size: 25g

## Giemsa's Stain Powder

CAS 51811-82-6

**3272** Giemsa's Stain Powder

OP

Stain for microscopy.

Pack Size: 25g, 500g

## Giemsa Stain Solution

U.N Number.....1992

ADG Class.....3

SUB.....6.1

Packing Group.....II



**1825** Giemsa Stain Solution

LABCHEM

Giemsa stain 0.75% in 50/50 Methanol/Glycerol

Pack Size: 1L, 5L



## Girard'S Reagent P

CAS 1126-58-5  
 $C_7H_{10}ClN_3O = 187.63$

### 628 Girard'S Reagent P (Gives water-soluble derivatives of ketones and ketosteroids) *LABCHEM*

Assay.....98% min.  
 M.P. ....200 – 203°C

Pack Size: 25g

## Glass Balls

### 1700 Glass Balls,Undrilled, 3mm *TECHNICAL*

Pack Size: 500g

## Glass Wool Low In Lead

### 1755 Glass Wool Low In Lead *TECHNICAL*

Pack Size: 500g

## Glassware Cleaning Soln

### 1676 Glassware Cleaning Soln.-Chromic Acid *TECHNICAL*

Formula is  $Na_2Cr_2O_7$  2.9 kg in 200L  $H_2SO_4$ . Chromic acid - about 2% w/v

Pack Size: 2.5L

## D-Glucose

CAS 50-99-7  
 $C_6H_{12}O_6 = 180.16$

### 783 D-Glucose anhydrous *UNIVAR*

Description: white crystalline powder.  
 Spec. rotn.(@25 Deg.C).....+52.5 to +53.0°

Maximum limit of impurities(%)

Insol.....	0.005	$SO_4$ & $SO_3$ (as $SO_4$ ).....	0.005
R.A.I.....	0.02	As.....	0.00002
Titratable acid.....	0.2 mmol H	Fe,Cu,Pb.....	.00001 each
L.O.D.....	0.2	H.M. (as Pb).....	0.0005
Cl.....	0.01	Starch.....	To Pass test

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

1364

**D-Glucose anhydrous**

UNILAB

**Description:** white, crystalline powder; odourless  
Spec. rotn. (10% ammoniacal soln.).....+52.5 to 53.0°

Maximum limit of impurities(%)

Clarity, odour & colour soln..... To pass test  
Sulph. ash..... 0.1  
Acidity or alkalinity..... To pass test  
Cl..... 0.0125  
SO<sub>4</sub>..... 0.020  
SO<sub>3</sub>..... To pass test  
As..... 0.0001

Ba..... To pass test  
Ca..... 0.020  
Pb..... 0.00005  
H<sub>2</sub>O..... 1.0  
Foreign sugars, sol.starch &  
Dextrins..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

917

**D-Glucose anhydrous**

LABCHEM

Spec. rotn.(10% ammoniacal sol).....+52.0 to +54.0°

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.05

H<sub>2</sub>O..... 1.5

Pack Size: 500g

713

**D-Glucose Monohydrate**

UNILAB

**Description:** colourless crystals; or a white or cream coloured, crystalline or granular powder; odourless.

H<sub>2</sub>O.....7.0 - 9.5%

Spec. rotn. (10% w/v NH<sub>4</sub>OH soln of dried material) +52.5 to +53.3°

Maximum limit of impurities(%)

Clarity, odour & colour soln..... To pass test  
Sulph. ash..... 0.1  
Acidity or alkalinity..... 0.25mmol H or OH  
Cl..... 0.0125  
SO<sub>4</sub>..... 0.020

SO<sub>3</sub>..... To pass test  
As..... 0.0001  
Ba..... To pass test  
Ca..... 0.020  
Pb..... 0.00005

Foreign sugars,soluble starch,  
dextrins..... To pass test

Pack Size: 500g, 25kg

**L-Glutamic Acid**

CAS 56-86-0

C<sub>5</sub>H<sub>9</sub>NO<sub>4</sub> = 147.13

2404

**L-Glutamic Acid**

UNIVAR

**Description:** White crystalline powder

**Solubility:** Soluble in water and alcohol. Insoluble in ether, acetone, and chloroform.

**Assay** (Non-aqueous titration).....99.8% min.

Maximum limit of impurities(%)

Fe..... 0.0005  
Pb..... 0.0005  
Cl..... 0.005

SO<sub>4</sub>..... 0.005  
Cd..... 0.0005  
Na..... 0.005

Pack size: 250g

## Glutaraldehyde 25% Solution

CAS 111-30-8  
 $\text{OHCC}_3\text{H}_6\text{CHO} = 100.12$

U.N Number.....2927  
 ADG Class.....6.1  
 SUB.....8  
 Packing Group.....II



698

### Glutaraldehyde 25% Solution

UNILAB

Assay.....24.5% w/w min.  
 pH(5% soln).....3.0 min

Maximum limit of impurities(%)  
 Dilution with water.....clear/slightly opalescent  
 Store below 4°C.....(do not freeze)

Pack Size: 500mL, 2.5L, 20L, 200kg

## Glutathione

CAS 70-18-8  
 $\text{C}_{10}\text{H}_{17}\text{N}_3\text{O}_6\text{S} = 307.3$

234

### Glutathione, Reduced

UNILAB

**Description:** White crystalline powder  
 Assay.....98.0% min.

Maximum limit of impurities(%)  
 H.M. (as Pb)..... 0.0005  
 Fe..... 0.0005  
 Ca..... 0.001

Pack size: 25g

Glycerine (See Glycerol Page 215 )

## Glycerol

CAS 56-81-5  
 $\text{CH}_2\text{OHCHOHCH}_2\text{OH} = 92.09$

242

### Glycerol

UNIVAR

**Description:** clear, odourless, viscous liquid.  
 Assay.....99.5% min.  
 Colour (APHA).....10 max  
 Density (@ 25°C).....1.2570g/mL min.

Maximum limit of impurities(%)  
 R.A.I..... 0.005  
 Neutrality.....To pass test  
 Cl cpds (as Cl)..... 0.003  
 SO<sub>4</sub>..... 0.001  
 H.M. (as Pb)..... 0.0002  
 Acrolein & glucose.....To pass test  
 Fatty acid esters..... 0.05  
 Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test  
 Water..... 0.5

Conforms to ACS

Pack Size: 500mL, 2.5L, 250kg

**243** **Glycerol**

UNILAB

**Description:** clear, colourless or almost colourless, syrupy liquid; slippery to the touch; hygroscopic

Assay.....98.0 - 101.0%  
 R.I. ....1.470-1.475  
 Water.....2.0% max.

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test  
 Sulph. ash..... 0.01  
 Acidity.....To pass test  
 Cl..... 0.001  
 Halogenated cpds (Cl)..... 0.0035

H.M. (as Pb)..... 0.0005  
 Ester.....To pass test  
 Aldehydes & reducing subst..... To pass test  
 Sugars..... To pass test

Chemical and physical parameters conform to BP

**Pack Size:** 500mL, 2.5L, 10L, 250kg**918** **Glycerol**

UNILAB

Assay.....97.0% min.  
 R.I. ....1.46-1.48

Maximum limit of impurities(%)

Sulph. ash..... 0.01

Water.....3.0% max.

**Pack Size:** 500mL**Glycine**

CAS 56-40-6

 $\text{NH}_2\text{CH}_2\text{COOH} = 75.07$ **1083** **Glycine**

UNIVAR

**Description:** white crystalline powder.

Assay.....98.5% min.  
 M.P. ....235-245°C

Maximum limit of impurities(%)

Insol..... 0.005  
 Sulph. ash..... 0.1  
 Cl..... 0.005  
 Fe..... 0.003

H.M. (as Pb)..... 0.002  
 $\text{NH}_4$ ..... 0.01  
 $\text{H}_2\text{O}$ ..... 0.2

**Pack Size:** 500g, 5kg**1084** **Glycine**

UNILAB

A white, crystalline powder.

Assay(dried basis).....98.5 - 101.0%  
 Acidity(pH 5% w/v).....5.9 - 6.4

Maximum limit of impurities(%)

Clarity & colour of soln..... To pass test  
 H.M.(as Pb)..... 0.001  
 Cl..... 0.0075

L.O.D..... 0.5  
 Sulphated ash..... 0.1

Chemical and physical parameters conform to BP

**Pack Size:** 500g, 5kg, 25kg**Glycocoll** (See Glycine Page 216 )

## Glycolic Acid 70%

CAS 79-14-1  
 $\text{CH}_2\text{OHCOOH} = 76.05$

U.N Number.....3265  
 ADG Class.....8  
 Packing Group.....II



### 1085 Glycolic Acid 70%

TECHNICAL

Total acid (as Hydroxy-acetic).....70-72%  
 Colour (Gardner scale).....3 max.  
 Turbidity, NTU.....6 max.

Maximum limit of impurities(%)

Formic acid.....1.0                       $\text{SO}_4$ .....0.08%

Pack Size: 500mL

## Gold 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2637 Gold 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Gold standard, ready for use.  
 Au in 0.5% hydrochloric acid.

Pack Size: 100mL

## Gold AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2611 Gold AAS Standard

SPECTROSOL

A 1000 ppm Gold standard, ready for use.  
 Each ml contains 1.00±0.005mg of Au in a chloride matrix.

Pack Size: 500mL

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.  
 Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Gold Chloride

CAS 27988-77-8  
HAuCl<sub>4</sub>·3H<sub>2</sub>O = 393.83

### 1086 Gold Chloride, Brown UNIVAR

Description: brown, hygroscopic lumps or crystals.  
Assay(as Au).....99.99% min

Maximum limit of impurities(%)		
Fe.....	0.002	Pb..... 0.0005
Cu.....	0.001	Ag..... 0.005

Conforms to ACS

Store below 4°C (refrigerate)

Pack Size: 1g

### 1826 Gold Chloride Solution LABCHEM

1% in aqueous solution

Pack Size: 100mL

## Gram's Iodine Solution

### 1832 Gram's Iodine Solution LABCHEM

Iodine 1% max.  
Potassium Iodide 1% max.

Pack Size: 1L, 5L

## Graphite Fine Powder

CAS 7782-42-5

### 2459 Graphite Fine Powder LABCHEM

Maximum limit of impurities(%)		
Soluble in Ethanol.....	0.2	ROI..... 1.0
LOD.....	1.0	

Pack Size: 500g

## Guanidine Hydrochloride

CAS 50-01-1  
CH<sub>6</sub>ClN<sub>3</sub> = 95.53

### 3245 Guanidine Hydrochloride UNIVAR

Description: White crystalline powder  
Assay.....99.0% min.

Maximum limit of impurities(%)		
Pb.....	0.0005	RNase..... None detected
DNase.....	None detected	Bacterial contamination..... .10 CFU/g

Pack size: 100g

## Guanidine Thiocyanate

CAS 593-84-0  
 $C_2H_6N_4S = 118.16$

### 1322 Guanidine Thiocyanate UNIVAR

**Description:** Off-white crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

DNase..... None detected

RNase..... None detected

Bacterial contamination.....10 CFU/g

**Pack size:** 100g

**Gum Arabic** (See Acacia Page 19 )

**Gypsum** (See Calcium Sulphate, dihydrate Page 126 )

## Haematoxylin

CAS 517-28-2  
 $C_{16}H_{14}O_6 + \text{water}$

### 1798 Haematoxylin (CI 75290) LABCHEM

Reagent for Aluminium  
 pH indicator.

**Pack Size:** 25g, 1kg

### 1828 Haematoxylin, Gill's I, Progressive Type LABCHEM

Haematoxylin.....1.2g/L

**Pack Size:** 1L, 5L

### 1829 Haematoxylin, Gill's II, Regressive Type LABCHEM

Haematoxylin.....4g/L

**Pack Size:** 1L, 5L

### 1830 Haematoxylin, Gill's III, Regressive Type LABCHEM

Haematoxylin.....6g/L

**Pack Size:** 1L, 5L

### 1827 Harris Haematoxylin Stain Solution LABCHEM

Haematoxylin.....1%

**Pack Size:** 1L, 5L

## Hazorb Universal Sorbent Pillows

### 2524 Hazorb Universal Sorbent Pillows

LABCHEM

Universal sorbent (consisting of amorphous inorganic foam particles) packed in an inert porous fabric pillow. Appropriate for containing spills of all liquids except hydrofluoric acid.

Available in 2 size pillows: laboratory & industrial.

Pack Size: EACH

## Hepes

CAS 7365-45-9

$C_8H_{18}N_2O_4S = 238.3$

### 2402 Hepes, Biological Buffer

UNIVAR

Description: White powder

Solubility (0.1M in  $H_2O$ ): Clear and complete

Assay.....99.0% min.

pKa.....7.35 – 7.75

pH.....(5% in  $H_2O$ ) 5.0 – 6.5

Maximum limit of impurities(%)

Moisture.....1.0

Pack size: 1kg

## Heptane

CAS 142-82-5

$CH_3(CH_2)_5CH_3 = 100.21$

U.N Number.....1206

ADG Class.....3

Packing Group.....II



### 2322 n-Heptane

UNICHROM

Description: clear liquid, characteristic odour.

R.I. ....1.388

Viscosity @ 20°C.....0.41cP

Assay (GLC).....>95.0%

Maximum limit of impurities(%)

Non-vol.....0.001

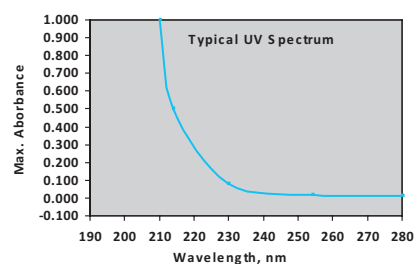
Acidity.....0.02 mmol H

$H_2O$  (by K.F.).....0.01

Suggested Applications:

Specially purified grade filtered through 0.45 micron filter for HPLC and pesticide residue analysis.

Pack Size: 2.5L



U.V. Absorbance:

$\lambda$ (nm)	210	214	254	280
Max. abs.	1.00	0.50	0.02	0.01



**589** **N-Heptane 99%** SPECTROSOL

Density.....0.684 g/mL  
 M.P. ....-90°C  
 B.P. ....98.4°C  
 Assay (GC).....99.0% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by Coulometry)..... 0.01  
 R.O.E..... 0.0005

FTIR Spectrum.....To Pass test

**Max. UV. Absorbance:**  

λ(nm)	200	210	220	230	250
Absorbance	1.00	0.30	0.097	0.05	0.009

Pack Size: 500mL, 2.5L GL

**247** **n-Heptane** UNIVAR

**Description:** clear liquid with a characteristic odour.  
 Assay(GLC).....99.5% min.  
 B.R.(95% min.).....98-100°C  
 Density.....0.680 – 0.684 g/mL  
 R.I.(@20 °C).....1.3870 – 1.3880

Maximum limit of impurities(%)  
 Non-vol..... 0.001  
 Acidity.....0.02 mmol H

Aromatic hydrocarbons..... 0.2  
 (as C<sub>6</sub>H<sub>6</sub>)  
 S cpds (as S)..... 0.005

Pack Size: 500mL, 2.5L, 20L

**248** **Heptane Fraction** UNILAB

B.R.(95% min.).....94-100 Deg.C  
 Density.....0.69 – 0.70 g/mL

Maximum limit of impurities(%)  
 Non-vol..... 0.01  
 Acidity.....0.1 mmol H

Pack Size: 20L

**105** **Heptane** LABCHEM

**Description:** clear liquid.  
 Boiling Range.....90 - 105°C

Pack Size: 200L

**1-Heptane Sulphonic Acid**

U.N Number.....2920  
 ADG Class.....8  
 SUB.....3  
 Packing Group.....II



**2340** **1-Heptane Sulphonic Acid, 0.25mol/L in Acetic Acid** UNICHROM

Specially purified for HPLC.  
 An ion-pairing reagent for the separation of basic compounds.  
 Non vol.....50.5+0.8 mg/mL  
 Dilution.....Clear no turbidity

Pack Size: 5x20mL

## 1-Heptane Sulphonic Acid Sodium Salt

CAS 22767-50-6  
 $C_7H_{15}SO_3Na = 202.24$

### 2416 1-Heptane Sulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC.  
An ion-pairing reagent for the separation of basic compounds.

Pack Size: 10g

## n-Hexadecane

CAS 544-76-3  
 $C_{16}H_{34} = 226.45$

### 3063 n-Hexadecane

UNIVAR

Description: Colourless clear liquid  
Assay.....99.0% min.  
Colour (APHA).....10 max.

Pack size: 100mL

Hexa-2,4-Dienoic Acid (See Sorbic Acid Page 430 )

Hexadecanoic Acid (See Palmitic Acid Page 319 )

Hexahydrobenzene(See Cyclohexane Page 162 )

Hexahydrophenol (See Cyclohexanol Page 162 )

Hexahydroxycyclohexane (See Inositol Page 237 )

Hexamethylenediamine (See 1-6-Diaminohexane Page 167 )

## Hexamine

CAS 100-97-0  
 $(CH_2)_6N_4 = 140.19$

U.N Number.....1328  
ADG Class.....4.1  
Packing Group.....III



### 1089 Hexamine

UNILAB

Assay.....98.5%  
Maximum limit of impurities(%)  
Sulph. ash..... 0.05                      H.M. (as Pb)..... 0.001

Pack Size: 500g, 5Kg

Hexamethyl Violet (See Crystal Violet (CI42555) Page 160 )

Hexamethylene (See Cyclohexane Page 162 )

Hexamethylenetetramine (See Hexamine Page 222 )

Hexanoic Acid (See Caproic Acid Page 128 )

## n-Hexane

CAS 110-54-3  
C<sub>6</sub>H<sub>14</sub> = 86.18

U.N Number.....1208  
ADG Class.....3  
Packing Group.....II



### 2320 n-Hexane

UNICHROM

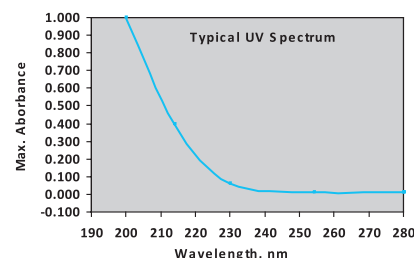
Pack Size: 500g, 5kg

Description: clear liquid, characteristic odour.  
Assay (GLC).....>99.5%

Maximum limit of impurities(%)  
Non-vol..... 0.001  
Acidity.....0.03 mmol H  
H<sub>2</sub>O (by K.F.)..... 0.05

U.V. Absorbance:

λ(nm)	200	214	254	280
Max.abs.	1.00	0.3	0.02	0.01



Suggested Applications:  
Specially purified grade filtered through 0.45 micron filter for HPLC and pesticide residue analysis.

Pack Size: 2.5L

### 2543 n-Hexane 95%

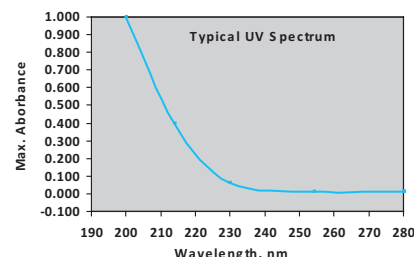
UNICHROM

Description: clear liquid, characteristic odour.  
Density about 0.68 g/mL  
R.I @ 20°C.....1.375  
Viscosity @ 20°C.....0.31 cP  
Assay (as n-Hexane).....>95.0%

Maximum limit of impurities(%)  
R.A.E..... 0.001  
Acidity.....0.03 mmol H  
H<sub>2</sub>O (by K.F.)..... 0.05

U.V Absorbance:

λ(nm)	200	214	254	280
Max. Abs.	1.00	0.30	0.02	0.01



Suggested Applications:  
Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L

### 3475 n-Hexane 95%, Unichrom Pesticide Grade

UNICHROM

High purity solvent for Pesticide residue analysis.

Assay (as n-Hexane).....Min 95.0%  
(as C6 Hydrocarbons).....Min 99.5%  
Colour (Apha).....10

Maximum limit of impurities(%)  
Water..... 0.02 R.A.E..... 0.0002

ECD Responsive Residue (as Heptachlor Epoxide) 10ppt

Pack Size: 4L

590

**n-Hexane**

SPECTROSOL

**Description:** clear liquid; characteristic odour.

For U.V. spectroscopy.

Colour (APHA).....10 max.

Density @25 Deg C.....0.687 g/mL.

Assay (GLC).....99.5% min.

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.03

Conforms to ACS

Pack Size: 500mL, 2.5L

Thiophene.....To pass test  
S cpds (as S)..... 0.005**U.V. Absorbance:**

λ(nm) 200 220 230 240 250 280-400

Max. abs. 1.00 0.20 0.10 0.04 0.02 0.01

2508

**n-Hexane 95%**

UNIVAR

**Description:** clear liquid with characteristic odour.

Density (@25°C).....about 0.68g/mL

Assay (GLC).....95% min.

B.R. (95% min.).....68-70°C

Colour (APHA).....10 max.

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.03 mmol H

Aromatic hydrocarbons(as C<sub>6</sub>H<sub>6</sub>)..... 0.2

Thiophene.....To pass test

Al..... 0.00001

Fe..... 0.00001

K..... 0.00001

Na..... 0.00001

Zn..... 0.00001

Ba..... 0.000002

Cr..... 0.000002

Co..... 0.000002

Cu..... 0.000002

Pb..... 0.000002

Mn..... 0.000002

Ni..... 0.000002

Sr..... 0.000002

Cd..... 0.000005

Mg..... 0.000005

Ca..... 0.000002

Pack Size: 500mL, 2.5L, 20L, 133kg

250

**n-Hexane, Low In Aromatic Hydrocarbons**

UNIVAR

**Description:** clear liquid with a characteristic odour.

Assay (GLC).....99.5% min.

BR (95% min.).....2°C max. incl. 68.7°C

Colour (APHA).....10 MAX.

Density (@ 25°C).....0.687g/mL max.

Maximum limit of impurities(%)

Non-vol..... 0.001

Acidity..... 0.03 mmol H

Aromatic hydrocarbons(as C<sub>6</sub>H<sub>6</sub>)..... 0.2

S cpds (S)..... 0.005

Thiophene.....To pass test

Pack Size: 500mL, 2.5L, 20L

251

**Hexane Fraction**

UNILAB

Density.....about 0.68g/mL

B.R.(95% min.).....60 - 80 °C

Maximum limit of impurities(%)

Non-vol..... 0.01

Acidity.....0.1 mmol H

Pack Size: 500mL, 2.5L, 20L, 200L

**Hexanedioic Acid** (See Adipic Acid Page 33 )

## Hexan-1-ol

CAS 111-27-3  
 $\text{CH}_3(\text{CH}_2)_5\text{OH} = 102.18$

U.N Number.....2282  
 ADG Class.....3  
 Packing Group.....III



185

### Hexan-1-OL

UNILAB

Density.....about 0.82g/mL  
 R.I .....about 1.418  
 B.R.(95% min.).....156-158 Deg.C  
 Assay (GC).....98% min.

Pack Size: 500mL, 2.5L

**N-Hexanol** (See Hexan-1-ol Page 225 )

**N-Hexyl Alcohol** (See Hexan-1-ol Page 225 )

## 1-Hexanesulphonic Acid Sodium Salt

CAS 2832-45-3  
 $\text{C}_6\text{H}_{13}\text{SO}_3\text{Na} = 188.21$

2415

### 1-Hexanesulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC.  
 An ion-pairing reagent for the separation of basic compounds.

Pack Size: 10g

## High Vacuum Grease

1400

### High Vacuum Grease

LABCHEM

For lubrication of glass stopcocks and valves for high vacuum and general purposes. Displays low bleed and evaporation.

Pack Size: 50g, 100g, 500g

## Hippuric Acid

CAS 495-69-2  
 $\text{C}_9\text{H}_9\text{NO}_3 = 179.2$

1090

### Hippuric Acid

UNILAB

**Description:** White coloured crystals  
 Assay.....99.0% min.  
 Melting point.....187 - 188°C

Maximum limit of impurities(%)

$\text{NH}_4$ ..... 0.01

H.M. (as Pb)..... 0.001

Pack size: 100g

## L-Histidine Monohydrochloride

CAS 645-35-2

$C_6H_9O_2N_3 \cdot HCl \cdot H_2O = 209.63$

### 1091 L-Histidine Monohydrochloride

LABCHEM

Assay.....98.5 - 101.0%  
Spec. rotn. ....+8.5 to +10.5°  
Cl.....16.6 - 17.1%

Maximum limit of impurities(%)

LOD.....0.2  
ROI.....0.1  
Fe.....0.0010  
NH<sub>4</sub>.....0.02

SO<sub>4</sub>.....0.03  
As.....0.0001  
H.M.....0.001

Pack Size: 25g

**Horn's Dry Lead** (See Lead Acetate Basic Pdr Page 252 )

## HPTLC

### 1856 HPTLC Plates, Silica Gel 60 F254

OP

Contains fluorescent indicator  
Plate dimension.....10 x 20cm

Typical specifications:

Particle size.....2 - 10 μm  
Mean pore diameter.....60 Å  
Specific Pore Volume.....0.75 ml/g  
Specific Surface (BET).....about 500 m<sup>2</sup>/g

Pack Size: 50 Sheets

## Hyamine 1622

CAS 121-54-0

### 2612 Hyamine 1622

LABCHEM

Cationic surfactant.  
Appearance: White powder  
Assay.....99.0 - 101%

Pack Size: 250g

**Hydrated Alumina** (See Aluminium Hydroxide Gel Page 39 )

## Hydrazine Dihydrochloride

CAS 5341-61-7

Synonyms: Hydrazinium dihydrochloride  
 $N_2H_4 \cdot 2HCl = 104.97$

U.N Number.....3288

ADG Class.....6.1

Packing Group.....III



### 1092 Hydrazine Dihydrochloride Suitable for Amino acid determination

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.005

Pb..... 0.001

Fe..... 0.001

R.O.I..... 0.1

Pack Size: 100g, 500g

Hydrazinium Dihydrochloride (See Hydrazine Dihydrochloride Page 227 )

## Hydrazinium Hydrate

CAS 7803-57-8

$NH_2NH_2 \cdot H_2O = 50.06$

U.N Number.....2030

ADG Class.....8

SUB.....6.1

Packing Group.....II



### 1093 Hydrazinium Hydrate

UNILAB

Density.....about 1.03g/mL

Assay.....99% min.

Pack Size: 500ML

Hydrazine Hydrate (See Hydrazinium Hydrate Page 227 )

## Hydrazinium Sulphate

CAS 10034-93-2

$NH_2NH_2 \cdot H_2SO_4 = 130.12$

U.N Number.....3288

ADG Class.....6.1

Packing Group.....III



### 252 Hydrazinium Sulphate

UNIVAR

Description: colourless crystals.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insols..... 0.005

R.A.I..... 0.05

Cl..... 0.005

Fe..... 0.001

H.M. (as Pb)..... 0.002

Pack Size: 100g, 500g

## 253 Hydrazinium Sulphate UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Sulph. ash. .... 0.2                      H.M. & Fe (as Fe)..... 0.01

Pack Size: 500g

**Hydrazine Sulphate** (See Hydrazinium Sulphate Page 228 )

## Hydriodic Acid

CAS 10034-85-2

HI = 127.91

U.N Number.....1787

ADG Class.....8

Packing Group.....II



## 869 Hydriodic Acid 55% UNIVAR

**Description:** colourless liquid when freshly distilled; rapidly becomes yellow to reddish-brown due to liberation of iodine.

Density.....about 1.7g/mL

Assay.....55.0% min.

Maximum limit of impurities(%)

Non-vol. .... 0.02

Cl. .... 0.03

PO<sub>4</sub>..... 0.005

S cpds (as SO<sub>4</sub>)..... 0.005

As. .... 0.0005

Fe. .... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500mL

## Hydrobromic Acid

CAS 10035-10-6

HBr = 80.91

U.N Number.....1788

ADG Class.....8

Packing Group.....II



## 254 Hydrobromic Acid 48% Solution UNIVAR

**Description:** clear colourless to pale yellow liquid when freshly distilled; becomes yellow to brown due to liberation of bromine. Density about 1.49g/mL

Assay 47.0 - 49.0% w/w

Maximum limit of impurities(%)

Sulph. ash. .... 0.002

Cl. .... 0.05

I. .... 0.003

PO<sub>4</sub>..... 0.001

SO<sub>4</sub>..... 0.003

SO<sub>3</sub>..... 0.003

Fe. .... 0.0001

H.M. (as Pb)..... 0.0005

Se. .... 0.000001

Pack Size: 500mL, 2.5L, 22.5L



**255 Hydrobromic Acid 48% Solution**

UNILAB

Density.....about 1.49g/mL  
 Assay.....46.0% min.

Maximum limit of impurities(%)

Sulph. ash..... 0.05  
 Cl..... 0.1  
 SO<sub>4</sub>..... 0.02

As..... 0.0005  
 H.M. & Fe (as Fe)..... 0.001

Pack Size: 500mL, 2.5L

**Hydrogen Bromide** (See Hydrobromic Acid 48% Page 228 )

**Hydrochloric Acid**

CAS 7647-01-0  
 HCl = 36.46

U.N Number.....1789  
 ADG Class.....8  
 Packing Group.....II



**1399 Hydrochloric Acid, Extra Pure**

UNIPURE

Assay.....34 -37%

Maximum limit of impurities(ppb)

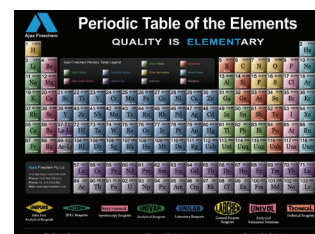
Al..... 3  
 Sb..... 1  
 As..... 1  
 Ba..... 1  
 Be..... 1  
 Bi..... 1  
 B..... 3  
 Cd..... 1  
 Ca..... 3  
 Cr..... 1  
 Co..... 1  
 Cu..... 1  
 Fe..... 3  
 Pb..... 1  
 Li..... 1  
 Mg..... 1

Mn..... 1  
 Hg..... 1  
 Mo..... 1  
 Ni..... 1  
 K..... 1  
 Se..... 1  
 Ag..... 1  
 Na..... 1  
 Sr..... 1  
 Th..... 1  
 Sn..... 1  
 Ti..... 1  
 U..... 1  
 V..... 1  
 Zn..... 1  
 Zr..... 1

Pack size: 500mL, 2.5L

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



1367

## Hydrochloric Acid 36%

UNIVAR

**Description:** clear colourless or near-colourless fuming liquid.

Density.....about 1.18g/mL

Assay.....36.0 - 39.0% w/w

Maximum limit of impurities(%)

Residue on evaporation..... 0.0005

Free chlorine (as Cl)..... 0.0001

SO<sub>4</sub>..... 0.0001SO<sub>3</sub>..... 0.0001

Al..... 0.00005

Fe..... 0.00005

Mg..... 0.00005

K..... 0.00005

Zn..... 0.00002

Ba..... 0.00002

As..... 0.000002

Cu..... 0.000002

Mn..... 0.000002

Mo..... 0.000002

Sr..... 0.000002

Ni..... 0.000005

Pb..... 0.000005

Cd..... 0.000005

Na..... 0.0001

Ca..... 0.0001

NH<sub>4</sub>..... 0.0001

Co..... 0.000001

H.M (as Pb)..... 0.00005

Appearance of solution..... To pass test

Chemical and physical parameters conform to BP and EP

Pack Size: 500mL, 2.5L, 20L, 200L

256

## Hydrochloric Acid 32%

UNIVAR

**Description:** clear colourless fuming liquid.

Density.....about 1.16g/mL

Assay.....31.5% w/w min.

Maximum limit of impurities(%)

R.A.I..... 0.0005

Free chlorine (as Cl)..... 0.0001

SO<sub>4</sub>..... 0.0001SO<sub>3</sub>..... 0.0001

Al..... 0.00005

Fe..... 0.00005

Mg..... 0.00005

K..... 0.00005

Ba..... 0.00002

Co..... 0.000001

Cu..... 0.000002

As..... 0.000002

Mn..... 0.000002

Mo..... 0.000002

Sr..... 0.000002

Zn..... 0.00001

Ni..... 0.000005

Pb..... 0.000005

Cd..... 0.000005

Na..... 0.0001

Ca..... 0.0001

NH<sub>4</sub>..... 0.0001

Colour..... To pass test

Pack Size: 500mL, 2.5L, 20L, 200L

2224

## Hydrochloric Acid

OP

**Description:** clear colourless fuming liquid.

Assay.....32 - 34%.

Maximum limit of impurities(%)

Fe..... 0.0002

As..... 0.0001

H.M. (as Pb)..... 0.0002

Pack Size: 15L

5410

## Hydrochloric Acid 32%

LABCHEM

**Description:** clear, pale yellow liquid.

Assay.....32 - 34% w/w

Maximum limit of impurities(%)

Fe..... 0.005

H.M (as Pb)..... 0.002

Pack Size: 20L, 200L

- 174** **Hydrochloric Acid 0.100M Solution** UNIVOL  
 Stabilized with sodium azide.....0.01%  
 Molarity.....0.0995 - 0.1005 mol/L  
 Pack Size: 1L, 6x1L, 2.5L
- 643** **Hydrochloric Acid 1.000M** UNIVOL  
 Stabilized with sodium azide.....0.01%  
 Molarity.....0.995 - 1.005 mol/L  
 Pack Size: 6x1L, 2.5L
- 1607** **Inhibited Hydrochloric Acid** TECHNICAL  
 Description: clear pale yellow liquid.  
 Contains corrosion inhibitor 0.2% w/w maximum  
 Assay.....32 - 34% w/w  
 Pack Size: 15L, 200L
- 1368** **Hydrochloric Acid 1.0MOL Concentrate, Ampoule** OP  
 Description: plastic ampoule containing clear colourless liquid  
 1 mole (36.460g HCl) to prepare 1L of 1M solution  
 Molarity.....0.998 - 1.002  
 Pack size: Ampoule
- 1366** **Hydrochloric Acid 0.1MOL Concentrate, Ampoule** OP  
 Description: plastic ampoule containing clear colourless liquid  
 0.1 mole (3.646g HCl) to prepare 1L of 0.1N solution  
 Molarity.....0.0998 - 0.1002  
 Pack size: Ampoule
- 1363** **Hydrochloric Acid 0.5MOL Concentrate, Ampoule** OP  
 Description: plastic ampoule containing clear colourless liquid  
 0.5 mole (18.230g HCl) to prepare 1L of 0.5N solution  
 Titer.....0.998 - 1.002  
 Pack size: Ampoule

## Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation



Simply visit: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)

## Hydrofluoric Acid 40%w/w

CAS 7664-39-3  
HF = 20.01

U.N Number.....1790  
ADG Class.....8  
SUB.....6.1  
Packing Group.....II



### 1097 Hydrofluoric Acid 40%w/w

UNIVAR

**Description:** clear, colourless liquid with a highly corrosive, irritating vapour.  
Assay.....39 – 41%

Maximum limit of impurities(%)

H <sub>2</sub> SiF <sub>6</sub> .....	0.01	Al.....	0.000005
Cl.....	0.0005	Mn.....	0.00002
PO <sub>4</sub> .....	0.0005	Pb.....	0.00001
SO <sub>4</sub> & SO <sub>3</sub> .....	0.0005	Zn.....	0.00003
As.....	0.000003	K.....	0.00003
Cu.....	0.000005	Ti.....	0.00003
Fe.....	0.00002	Ca.....	0.00003
Mg.....	0.00002	NO <sub>3</sub> .....	0.0001
Na.....	0.00003	B.....	0.00001
Cr.....	0.000001	Au.....	0.00003
Ni.....	0.00001	Sn.....	0.00003

Pack Size: 500mL

### 258 Hydrofluoric Acid 50%w/w

UNIVAR

**Description:** clear, colourless liquid with a highly corrosive, irritating vapour.

Density.....about 1.2g/mL  
Assay.....48.0 51.0% w/w

Maximum limit of impurities(%)

R.A.I.....	0.0005	Sr.....	0.000002
H <sub>2</sub> SiF <sub>6</sub> .....	0.005	Al.....	0.000005
Cl.....	0.0001	Ge.....	0.000005
PO <sub>4</sub> .....	0.00005	Mn.....	0.000005
HM(as Pb).....	0.00005	Mo.....	0.000005
SO <sub>4</sub> & SO <sub>3</sub> .....	0.0005	Pb.....	0.000005
As.....	0.000005	Tl.....	0.000005
Cu.....	0.000002	V.....	0.000005
Fe.....	0.00002	Zn.....	0.000005
Mg.....	0.00002	Ba.....	0.00001
Na.....	0.00002	Bi.....	0.00001
Ag.....	0.000002	K.....	0.00001
Be.....	0.000002	Ti.....	0.00001
Co.....	0.000002	Zr.....	0.00001
Cr.....	0.000002	Ca.....	0.00005
Li.....	0.000002	Cd.....	0.00001
Ni.....	0.000002		

Pack Size: 500mL, 2.5L

**Hydrogen Dioxide** (See Hydrogen Peroxide 30% Page 233 )

**Hydrogen Carboxylic Acid** (See Formic Acid 99% Page 208 )

**Hydrogen Iodide** (See Hydriodic Acid 55% Page 228 )

## Hydrogen Peroxide

CAS 7722-84-1  
H<sub>2</sub>O<sub>2</sub> = 34.01

U.N Number.....2014  
ADG Class.....5.1  
SUB.....8  
Packing Group.....II



### 260 Hydrogen Peroxide 30% (100 vol)

UNIVAR

Description: clear liquid.

Density.....about 1.10g/mL  
Assay.....29.0 - 32.0% w/w  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.E..... 0.002  
Titratable acid.....0.06 mmol H  
Cl..... 0.00005  
Ca..... 0.00005  
NO<sub>3</sub>..... 0.0002  
PO<sub>4</sub>..... 0.0002  
SO<sub>4</sub>..... 0.0002  
Al..... 0.00003  
As..... 0.0003  
NH<sub>4</sub>..... 0.0005  
B..... 0.000005  
Mg..... 0.000005  
Ni..... 0.000005

Na..... 0.001  
Sn..... 0.001  
Ti..... 0.000002  
Au..... 0.000002  
Cu..... 0.000002  
Pb..... 0.000002  
Zn..... 0.000002  
Cr..... 0.000001  
Mn..... 0.000001  
Fe..... 0.00001  
K..... 0.00002  
HM (as Pb)..... 0.0001

Conform to ACS  
Physical and Chemical parameters Conform to FCC  
Store below 25°C  
Decomposition is accelerated by heat.

Pack Size: 500mL, 2.5L, 20L

### 2430 Hydrogen Peroxide 35% (120 vol)

UNILAB

Density.....about 1.14 g/mL  
Assay.....34.0% w/w min.  
Stabilised with 0.2% orthophosphoric acid  
Store below 25°C  
Decomposition is accelerated by heat.

Pack Size: 500mL, 2.5L, 20L

### 2288 Hydrogen Peroxide 6%,(20 vol)

LABCHEM

Density.....about 1.02g/mL  
Assay.....6% w/w min.  
Acidity.....To pass test

Pack Size: 500mL, 2.5L

Hydroxyacetic Acid (See Glycolic Acid 70 % W/W Soln Page 217 )

2-Hydroxybenzoic Acid (See Salicylic Acid Page 379 )

4-Hydroxy-3-Methoxybenzaldehyde (See Vanillin Page 476 )

4-Hydroxy-4-Methyl-2-Pentanone (See Diacetone Alcohol Page 166 )

4-Hydroxyaniline (See 4-Aminophenol Page 45 )

2-Hydroxyethylamine (See Ethanolamine Page 195 )

4-Hydroxybutric Lactone (See g-Butyrolactone Page 113 )

## Hydroxylammonium Chloride

CAS 5470-11-1  
NH<sub>2</sub>OH.HCl = 69.49

U.N Number.....1759  
ADG Class.....8  
Packing Group.....III



### 263 Hydroxylammonium Chloride

UNIVAR

Description: colourless crystals.

Assay.....96.0% min

Maximum limit of impurities(%)

Insol. (in alcohol) ..... To pass test  
R.A.I..... 0.05  
Titratable free acid..... 0.25 mmol H  
S cpds (as SO<sub>4</sub>)..... 0.005

Fe..... 0.0005  
H.M. (as Pb)..... 0.0005  
NH<sub>4</sub>..... 0.1

Conforms to ACS

Pack Size: 100g, 500g, 5kg, 25kg

### 1102 Hydroxylammonium Chloride

UNILAB

Assay.....96% min

Maximum limit of impurities(%)

Sulph. ash..... 0.1  
Acidity..... 30 mmol H  
SO<sub>4</sub>..... 0.02

H.M. & Fe (as Fe)..... 0.005  
NH<sub>4</sub>..... 0.2

Pack Size: 500g

Hydroxylammonium Chloride (See Hydroxylammonium Chloride Page 134 )

## Hydroxylammonium Sulphate

CAS 10039-54-0  
(NH<sub>2</sub>OH)<sub>2</sub>.H<sub>2</sub>SO<sub>4</sub> = 164.10

U.N Number.....2865  
ADG Class.....8  
Packing Group.....III



### 1103 Hydroxylammonium Sulphate

UNIVAR

Description: White crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

Fe..... 0.0005  
Pb..... 0.0005  
Cl..... 0.001

Zn..... 0.0005  
SO<sub>4</sub>..... 0.05

Pack size: 100g, 500g, 5Kg

**2-Hydroxy-1(2-Hydroxy-4 Sulpho-1Naphthylazo)-3 Naphthoic Acid** (See Calcon Carboxylic Acid Page 127 )

## Hydroxy Naphthol Blue

CAS 63451-35-4  
MW = 598.50

### 2613 Hydroxy Naphthol Blue, disodium salt

UNIVAR

$\lambda$ (max).....650 nm  
Suitable for Calcium determinations.

Maximum limit of impurities(%)  
Suitable for Ca determination. ....To pass test

Conforms to ACS

Pack Size: 100g

## 8-Hydroxyquinoline

CAS 148-24-3  
C<sub>9</sub>H<sub>7</sub>ON = 145.16

### 265 8-Hydroxyquinoline

UNIVAR

Reagent for Al, Mg, Zn and other metals.

**Description:** White or cream-coloured crystals, crystalline powder or flakes.

M.P. ....72.5-74.0°C

Maximum limit of impurities(%)

Insol. (in alcohol)..... 0.05

SO<sub>4</sub>..... 0.02

R.A.I..... 0.05

Suitability for Mg detmn.....To pass test

Conforms to ACS

Pack Size: 100g

**2-Hydroxymethyl Furan** (See Furfuryl Alcohol Page 211 )

**Hydroquinone** (See Quinol Page 373 )

**4-Hydroxymethylbenzoate** (See Methyl 4-Hydroxybenzoate Page 289 )

**1-Hydroxynaphthalene** (See 1-Naphthol Page 299 )

**2-Hydroxynaphthalene** (See 2-Naphthol Page 299 )

**2-Hydroxypropionic Acid Calcium Salt** (See Calcium Lactate Page 124 )

**2-Hydroxypropionic Acid** (See Lactic Acid 85% Page 247 )

## Hypophosphorous Acid 50% w/w

CAS 6303-21-5  
 $H_3PO_2 = 66.00$

### 1104 Hypophosphorous Acid 50% w/w

LABCHEM

Density.....about 1.22g/mL.  
Assay.....49-51%  
S.G. @ 20°C.....1.19-1.22 g/mL

Maximum limit of impurities(%)

Na.....0.1  
Fe.....0.001

Cl.....0.015

Pack Size: 500mL

## Imidazole

CAS 288-32-4  
 $C_3H_4N_2 = 68.08$

U.N Number.....3263  
ADG Class.....8  
Packing Group.....III



### 3970 Imidazole

UNILAB

Description: White to off-white flakes

Assay.....99.0% min.  
M.P. ....87-89°C  
pH 5% Soln. ....9.5-10.5

Maximum limit of impurities(%)

Sulphated Ash.....0.1  
Iron.....0.005

Water.....0.5

Pack size: 500g

2,2-Iminodiethanol (See Diethanolamine Page 174 )

## Immersion Oil

### 3282 Immersion Oil

OP

For microscope specimen preparation. PCB content nil;  
Fluorescence free to 235nm.  
R.I. ....approx. 1.515

Pack Size: 100mL

IMS (See Methylated Spirits 95% Page 292 )

Indanetrione Hydrate (See Ninhydrin Page 307 )



## Indigo Carmine (CI 73015)

CAS 860-22-0

### 3224 Indigo Carmine (CI 73015)

OP

Stain for microscopy.  
 Redox indicator.  
 Transition EMF (@ pH=0).....+0.29V  
 Transition EMF (@ pH=7).....- 0.11 V  
 Colour change:  
 Oxidized (blue) to reduced (yellowish)

Pack Size: 25g

## Indole

CAS 120-72-9

 $C_8H_7N = 117.1$ 

### 3066 Indole

UNILAB

Description: White crystalline powder  
 Assay.....99.0% min.  
 Melting point.....50 - 52°C

Pack size: 25g

## Indol-3-Yl-Butyric Acid

CAS 133-32-4

 $C_{12}H_{13}O_2N = 203.24$ 

### 690 Indol-3-Yl-Butyric Acid

LABCHEM

M.P. ....124-127°C

Pack Size: 1g

## Inositol

CAS 6917-35-7

 $C_6H_6(OH)_6 = 180.16$ 

### 2464 Inositol

LABCHEM

M.R.....224 - 226 °C

Maximum limit of impurities(%)

H<sub>2</sub>O (K.F)..... 0.5

H.M (as Pb)..... 0.001

Pack Size: 25g

## Iodine

CAS 7553-56-2  
I = 126.90

U.N Number.....1579  
ADG Class.....8  
Packing Group.....II



### 267 Iodine

UNIVAR

**Description:** brittle plates or small crystals, greyish-violet in colour with a metallic sheen; odour, irritating.  
Volatilises slowly at room temperature.

Assay.....99.8% min.

Maximum limit of impurities(%)

Non-vol..... 0.01                      Cl & Br (as Cl)..... 0.005

Conforms to ACS

Pack Size: 100g, 500g, 5kg

### 268 Iodine, Resublimed

UNILAB

**Description:** brittle plates or small crystals, greyish-violet in colour with a metallic sheen; odour, irritating.

Volatilises slowly at room temperature.

Assay.....99.5 - 100.5%

Maximum limit of impurities(%)

Non-vol..... 0.1                      Cl & Br (as Cl)..... 0.025

Conforms to BP

Pack Size: 100g, 500g, 5kg

### 925 Iodine, Resublimed

LABCHEM

Assay.....99.0% min.

Pack Size: 100g

### 1396 Iodine 0.05mol Concentrate, Ampoule

OP

**Description:** plastic ampoule containing clear brown liquid  
0.05 mole (12.690g I<sub>2</sub>) to prepare 1L of 0.1N solution

Titer.....0.998 – 1.002

Pack size: Ampoule

## Iodine Solution (WIJS)

U.N Number.....2920  
ADG Class.....8  
SUB.....3  
Packing Group.....II



### 2614 Iodine Solution (WIJS)

LABCHEM

For the determination of Iodine Value for fats & oils.  
Molarity.....0.099 - 0.101mole/litre

Pack Size: 500mL, 2.5L

## Iodine Trichloride

CAS 865-44-1  
 $\text{ICl}_3 = 233.26$

U.N Number.....2923  
 ADG Class.....8  
 SUB.....6.1  
 Packing Group.....III



### 1107 Iodine Trichloride

UNIVAR

**Description:** orange-red crystalline masses with pungent irritating fumes.  
 Assay.....95.0% min.

Store below 4°C (refrigerate)

Pack Size: 100g

## Iodoethane

CAS 75-03-6  
 $\text{C}_2\text{H}_5\text{I} = 155.97$

U.N Number.....1993  
 ADG Class.....3  
 Packing Group.....III



### 1108 Iodoethane

UNILAB

Density.....about 1.94g/mL.  
 R.I .....about 1.513  
 B.R.(95% min.).....69 – 73°C  
 Assay(GC).....99% min.

Maximum limit of impurities(%)  
 Non-vol..... 0.01

Pack Size: 100mL

## Iodoform

CAS 75-47-8  
 $\text{CHI}_3 = 393.73$

### 821 Iodoform

UNILAB

M.P. ....about 115°C (dec)  
 Assay.....99.0% min.

Maximum limit of impurities(%)  
 R.A.I..... 0.2                      L.O.D..... 1.0

Pack Size: 500g, 5kg

# Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Non-Hazardous
- <> Safe for the environment
- <> Harmless

**Cat-No**    **Pack Size**  
**8745**      500g, 1kg, 3kg, 5kg, 25kg

## Di-Iodomethane

CAS 75-11-6  
CH<sub>2</sub>I<sub>2</sub> = 267.84

### 782 Di-Iodomethane UNILAB

Yellow to reddish coloured heavy liquid. B.P. about 181°C. Decomposes upon exposure to light to form iodine in solution.

Density.....3.315 - 3.325g/mL  
R.I. ....1.735 - 1.748  
Maximum limit of impurities(%)  
Non-vol..... 0.02

Pack Size: 100mL, 500mL, 25kg

## Iodomethane

CAS 74-88-4  
CH<sub>3</sub>I = 141.94

U.N Number.....2644  
ADG Class.....6.1  
Packing Group.....I



### 269 Iodomethane UNILAB

Reagent for tertiary amines.  
Stabilized with silver foil.

Density @ 20°C.....2.27 - 2.28 g/mL.  
R.I. ....about 1.531  
Assay.....(GC) 99% min.

Maximum limit of impurities(%)  
Water(K.F.)..... 0.1

Pack Size: 100mL

**Iodometric Indicator** (See Vitex Indicator Page 476 )

**IPA** (See Propan-2-Ol Page 368 )

## Iron

CAS 7439-89-6  
Fe = 55.85

### 2462 Iron-High Purity LABCHEM

High purity metallic iron in common form of chips wire or powder.  
Assay.....99% min.

Maximum limit of impurities(%)

Insoluble in HCl.....	0.5	Ni.....	0.05
As.....	0.0005	Pb.....	0.002
Cu.....	0.01	Zn.....	0.005
Mn.....	0.1	S.....	0.01

Pack Size: 100g

**596 Iron Filings 5-12 Mesh** TECHNICAL

Pack Size: 500g, 25kg

**777 Iron powder** TECHNICAL

Assay (total Fe) typical.....98% min.

Assay (Fe metal) typical.....96.5% min.

Maximum limit of impurities(%)

C (typical)..... 0.2

S..... 0.015

P..... 0.015

Pack Size: 500g

**Iron 1000ppm Single Element ICP Standard**

U.N Number.....3264

ADG Class.....8

Packing Group.....III



**2638 Iron 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Iron standard, ready for use.

Fe in 0.5% Nitric acid.

Pack Size: 100mL

**Iron AAS Standard**

U.N Number.....3264

ADG Class.....8

Packing Group.....III



**2629 Iron AAS Standard** SPECTROSOL

A 1000 ppm Iron standard, ready for use.

Each mL contains 1.00+/-0.005mg of iron in 0.5% Nitric acid.

Pack Size: 500mL

**Iron(II) Chloride**

CAS 13478-10-9  
FeCl<sub>2</sub>.4H<sub>2</sub>O = 198.81

U.N Number.....3260

ADG Class.....8

Packing Group.....III



**2363 Iron(II) Chloride** UNILAB

Assay.....(as FeCl<sub>2</sub>) 63% min.

Maximum limit of impurities(%)

As..... 0.001

Mn..... 0.07

Cu..... 0.01

Fe(III)..... 0.3

Pb..... 0.005

Pack Size: 500g, 10kg

## Iron(III) Chloride

CAS 7705-08-0  
FeCl<sub>3</sub> = 162.21

U.N Number.....1773  
ADG Class.....8  
Packing Group.....III



### 220 Iron(III) Chloride, Anhydrous

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)  
Fe(II)..... 0.6

Pack Size: 250g, 5kg

## Iron (III) Chloride

CAS 10025-77-1  
FeCl<sub>3</sub>.6H<sub>2</sub>O = 270.30

### 743 Iron (III) Chloride, Hexahydrate

UNILAB

Assay.....96% min.

Maximum limit of impurities(%)  
Free Cl..... 0.005                      Fe(II)..... .01 max

Pack Size: 500g, 5kg, 25kg

## Iron(III) Citrate

CAS 2338-05-8

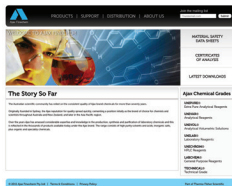
### 1523 Iron(III) Citrate, Granular

LABCHEM

Approx. ....C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>Fe.3H<sub>2</sub>O  
Contains.....about 18% Fe.

Maximum limit of impurities(%)  
Ca. .... 0.1                      H.M. (as Pb)..... 0.005  
Na. .... 0.05                      Cl. .... 0.05  
K. .... 0.001                      SO<sub>4</sub>..... 0.3

Pack Size: 500g



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

## Iron(III) Nitrate

CAS 7782-61-8  
 $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O} = 404.00$

U.N Number.....1466  
 ADG Class.....5.1  
 Packing Group.....III



827

### Iron(III) Nitrate

UNIVAR

**Description:** pale mauve coloured, moist crystals. Hydrolyses, becoming brown during storage.

Assay.....98.0-101.0%

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.0005

SO<sub>4</sub>..... 0.01

Ca..... 0.01

Mg..... 0.005

K..... 0.005

Na..... 0.05

Conforms to ACS

Store below 25°C in air-tight container

Pack Size: 500g, 5kg

1675

### Iron(III) Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Subs. not pptd. by NH<sub>4</sub>OH..... 0.5

Store below 25°C in air-tight container.

Pack Size: 500g

927

### Iron(III) Nitrate

LABCHEM

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

Store below 25°C in air-tight container.

Pack Size: 500g

## Iron(II) Oxalate

CAS 516-03-0  
 $(\text{COO})_2\text{Fe} \cdot 2\text{H}_2\text{O} = 179.90$

1061

### Iron(II) Oxalate

LABCHEM

Assay.....99% min.

Pack Size: 500g

## Iron(III)Oxide

CAS 1309-37-1

### 1060 Iron(III)Oxide,Red

LABCHEM

Assay.....(as Fe<sub>2</sub>O<sub>3</sub>) about 81%

Pack Size: 500g

## Iron(II) Sulphate (Ferrous Sulphate)

CAS 7782-63-0

FeSO<sub>4</sub>·7H<sub>2</sub>O = 278.01

### 226 Iron(II) Sulphate (Ferrous Sulphate)

UNIVAR

**Description:** green or bluish-green crystals or crystalline powder.

Assay.....99.0% min.  
pH(5%, 20°C).....3-4

Maximum limit of impurities(%)

Insol.....	0.01
Cl.....	0.001
PO <sub>4</sub> .....	0.001
Total N.....	0.001
Cu.....	0.001
Fe(III).....	0.025
Mn.....	0.05
Zn.....	0.005

Ca.....	0.005
Subs. not ppt. by NH <sub>4</sub> OH.....	0.05
As.....	0.0002
Na.....	0.002
K.....	0.002
Pb.....	0.0007
Mg.....	0.002

Conforms to ACS

Pack Size: 500g, 5kg

### 227 Iron(II) Sulphate

UNILAB

**Description:** bluish-green crystals or light green,crystalline powder; odourless. Efflorescent in air. Oxidises in moist air, becoming brown.

Assay.....98.0 - 105.0%  
pH(5% soln. @ 20°C).....3.0 - 4.0

Maximum limit of impurities(%)

Clarity of soln.....	To pass test
Fe (III).....	0.5
H.M. (as Pb).....	0.005

Mn.....	0.1
Zn.....	0.05
Cl.....	0.03

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

## Iron(II) Sulphide

CAS 1317-37-9

FeS = 87.92

### 228 Iron(II) Sulphide, Sticks

TECHNICAL

Suitable for H<sub>2</sub>S generation.

Pack Size: 1kg, 3kg



## Iron(III) Sulphate

CAS 10028-22-5  
 Approx.  $\text{Fe}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$   
 ( $\text{Fe}_2(\text{SO}_4)_3 = 399.88$ )

### 1268 Iron(III) Sulphate, Powder

UNILAB

Assay(as Fe).....21-23%

Maximum limit of impurities(%)

Cl. .... 0.005  
 $\text{NO}_3$  ..... 0.02  
 Fe(II)..... 0.02  
 As ..... 0.0005  
 Cu ..... 0.002

Zn ..... 0.005  
 Subs. not pptd. by  $\text{NH}_4\text{OH}$ , as  
 sulphates..... 0.05  
 Insol in HCl ..... 0.01  
 $\text{PO}_4$  ..... 0.003

Pack Size: 500g, 25kg

## Isatin

CAS 91-56-5  
 $\text{C}_8\text{H}_5\text{NO}_2 = 147.14$

### 1109 Isatin (Chromatographic spray reagent for amino acid)

UNILAB

Assay.....98% min.  
 M.P. ....199 – 202°C

Pack Size: 25g, 100g

**1,3-Isobenzofurandione** (See Phthalic Anhydride Page 336 )

**Isobutanol** (See 2-Methylpropan-1-ol Page 293 )

**Isobutyl Alcohol** (See 2-Methylpropan-1-ol Page 293 )

**Isobutyl Methyl Ketone** (See 4-Methylpentan-2-One Page 293 )

**Iso-Octane** (See 2-2-4-Trimethylpentane Page 461 )

## Isophorone

CAS 78-59-1  
 Synonyms: 3,5,5-Trimethyl-2-Cyclohexen-1-One  
 $\text{C}_9\text{H}_{14}\text{O} = 138.21$

### 122 Isophorone For Synthesis

LABCHEM

Assay.....>98%  
 Density @ 20°C.....0.920 – 0.922  
 R.I. @ 20°C.....1.4759 – 1.4761

Pack Size: 500 mL

**Isopropanol** (See Propan-2-ol Page 368 )

**Isopropyl Alcohol** (See Propan-2-ol Page 368 )

**Iso-Propyl Ether** (See Di-Iso-Propyl Ether Page 187 )

**2-iso-Propyl-5-Methylphenol** (See Thymol Page 449 )

## Janus Green

CAS 2869-83-2  
C<sub>30</sub>H<sub>31</sub>ClN<sub>6</sub> = 511.07

### 3225 Janus Green

LABCHEM

Description: Dark brown, dark green, or black powder  
Dye content.....50% min.

Pack size: 25g

## Jenner's Stain

### 3226 Jenner's Stain

OP

Stain for microscopy.

Pack Size: 25g

## Kaolin, Acid Washed

CAS 1332-58-7

### 1111 Kaolin, Acid Washed

UNILAB

Heavy powder

Maximum limit of impurities(%)

Sol in acid (as SO<sub>4</sub>)..... 0.1  
Ca..... 0.025  
H.M (as Pb)..... 0.0025  
Cl..... 0.025

SO<sub>4</sub>..... 0.1  
Adsorption power..... to pass test  
Swelling power..... to pass test  
Organic Impurities..... to pass test

Chemical and physical parameters conform to BP

Pack Size: 500g

## Karl Fischer Reagent

### 3600 Karl Fischer Reagent Single Solution Pyridine Free 5mg/ml

LABCHEM

Titer Strength.....5.0 mg/ml min.  
Suitability.....To pass test

Pack Size: 1L

## Kieselguhr

CAS 61790-53-2

### 1112 Kieselguhr, Acid washed LABCHEM

Maximum limit of impurities(%)		
Soluble in HCl (25%)	.....1	H.M.(as Pb)..... 0.005
L.O.I.	..... 0.1	Cl. .... 0.02
Fe.	..... 0.05	SO <sub>4</sub> ..... 0.05

Pack Size: 500g, 10kg

## Kjeldahl Catalyst Tablets

### 2206 Kjeldahl Catalyst Tablets, High Selenium LABCHEM

Each tablet contains 1.0g sodium sulphate anhydrous and the equivalent of 0.05g selenium.

Pack Size: 1000 tablets

### 1509 Kjeldahl Catalyst Tablets, Low Selenium LABCHEM

Each tablet contains 1.0g sodium sulphate anhydrous and the equivalent of 0.01g selenium.

Pack Size: 1000 tablets

## Lactic Acid

CAS 589-82-3

CH<sub>3</sub>CHOHCOOH = 90.08

### 270 Lactic Acid 85% UNIVAR

**Description:** clear, viscous liquid; 10-15% is present as anhydride. Density about 1.20g/mL

Assay.....85.0 - 90.0%

Maximum limit of impurities(%)		
R.A.I.	..... 0.02	Fe. .... 0.0005
Cl.	..... 0.001	H.M. (as Pb)..... 0.0005
SO <sub>4</sub>	..... 0.002	Subs. darkened by H <sub>2</sub> SO <sub>4</sub> .....To pass test

Conforms to ACS

Pack Size: 500mL, 2.5L

### 271 Lactic Acid 85% UNILAB

Density.....about 1.20g/mL

Assay.....85.0% w/w min.

Maximum limit of impurities(%)		
Sulph. ash	..... 0.05	Fe. .... 0.001
Cl.	..... 0.01	H.M. (as Pb)..... 0.001
SO <sub>4</sub>	..... 0.01	

Pack Size: 500mL

**5509 Lactic Acid 90%** UNIVAR

**Description:** clear, viscous liquid; 10-15% is present as anhydride. Density about 1.20g/mL  
 Assay.....85.0 - 90.0%

Maximum limit of impurities(%)  
 R.O.I..... 0.05  
 Sugars..... to pass test  
 Cl..... to pass test

SO<sub>4</sub>..... to pass test  
 H.M. (as Pb)..... 0.001

Conforms to ACS

Pack Size: 20L

**Lactophenol**

U.N Number.....2821  
 ADG Class.....6.1  
 Packing Group.....III



**3227 Lactophenol** LABCHEM

Pack Size: 250mL

**Lactophenol Cotton Blue Stain**

U.N Number.....2927  
 ADG Class.....6.1  
 SUB.....8  
 Packing Group.....II



**1835 Lactophenol Cotton Blue Stain** LABCHEM

0.05% Aniline blue in 20% Lactic acid, 40% Glycerol, and 20% Phenol

Pack Size: 100mL, 500mL

**Lactose**

CAS 63-42-3  
 $C_{12}H_{22}O_{11} \cdot H_2O = 360.32$

**871 Lactose** UNIVAR

**Description:** white crystalline powder.

Maximum limit of impurities(%)  
 H<sub>2</sub>O..... 4.0 - 6.0%  
 Insol..... 0.005  
 Sulph. ash..... 0.03  
 Dextrose.....To pass test

Sucrose.....To pass test  
 H.M. (as Pb)..... 0.0005  
 Fe..... 0.0005

Pack Size: 500g, 5kg

**1678 Lactose** UNILAB

A white or almost white, crystalline powder; odourless.  
 Spec. rotn. (dry basis).....+54.4 to +55.9o  
 Water(K.F.).....4.5 – 5.5%

Maximum limit of impurities(%)  
 Clarity odour & colour soln. .... To pass test  
 Acidity or alkalinity. .... To pass test  
 Sulphated ash..... 0.1  
 H.M.(as Pb)..... 0.0005

Proteins & light absorbing impurities.  
 Absorbance 300-270 nm. .... 0.07  
 220-210 nm. .... 0.25

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

**Laevulose** (See D(-)-Fructose Page 209 )

**Lanolin Anhydrous**

CAS 8006-54-0

**1113 Lanolin Anhydrous** UNILAB

M.P. ....38 – 44°C  
 Acid value.....1.0 max.  
 Peroxide value.....20 max.  
 Saponification value.....90 – 105

Maximum limit of impurities(%)  
 L.O.D..... 0.5  
 Sulphated ash..... 0.15

Acidity/alkalinity.....To pass test

Pack Size: 500g

**Lanthanum 1000ppm Single Element ICP Standard**

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



**2657 Lanthanum 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Lanthanum standard, ready for use.  
 La in 0.5% hydrochloric acid.

Pack Size: 100mL

**Lanthanum AAS Standard**

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



**2634 Lanthanum AAS Standard** SPECTROSOL

A 1000 ppm Lanthanum standard, ready for use. Each mL contains 1.00 +/-0.005mg of La in 0.5% hydrochloric acid.

Traceable to NIST

Pack Size: 500mL

## Lanthanum Chloride

CAS 10025-84-0  
LaCl<sub>3</sub>·7H<sub>2</sub>O = 371.38

### 2333 Lanthanum Chloride

UNIVAR

Description: colourless crystals.

Assay.....(as LaCl<sub>3</sub>) 64.5 - 70.0%

Maximum limit of impurities(%)

Insol..... 0.01

Ca..... 0.001

Mg..... 0.0001

Conforms to ACS

Pack Size: 100g, 5kg

## Lanthanum Oxide

CAS 1312-81-8  
La<sub>2</sub>O<sub>3</sub> = 325.82

### 1539 Lanthanum Oxide

UNILAB

Assay.....98% min

Maximum limit of impurities(%)

Cu..... 0.005

Ni..... 0.005

Fe..... 0.005

Pb..... 0.005

Pack Size: 100g, 500g, 5kg

### 2493 Lanthanum Oxide

LABCHEM

Pack Size: 500g

## Lauric Acid

CAS 143-07-7  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>10</sub>COOH = 200.33

### 1735 Lauric Acid

LABCHEM

Assay(C<sub>12</sub>).....about 98%

M.R. ....43-44°C

Acid Value.....278 - 282mg KOH/g

Maximum limit of impurities(%)

Iodine Value..... 0.2

Unsapon Matter..... 0.5

Pack Size: 500g

Lauth's Violet (See Thionin Page 448 )

L-Dopa (See 3,(3-4 Dihydroxy Phenyl) L-Alanine Page 178 )

## Lead

CAS 7439-92-1  
Pb = 207.2

### 1114 **Lead, Foil** UNIVAR

**Description:** soft, bluish grey metal.

Maximum limit of impurities(%)

Ag. ....	0.0002	Fe. ....	0.001
As. ....	0.001	Ni. ....	0.001
Bi. ....	0.02	Sb. ....	0.005
Cu. ....	0.001		

**Pack Size:** 500g

### 597 **Lead Shot** TECHNICAL

About 3-4mm diameter

**Pack Size:** 500g

## Lead 1000ppm Single Element ICP Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2639 **Lead 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Lead standard, ready for use.  
Pb in 0.5% Nitric acid.

**Pack Size:** 100mL

## Lead AAS Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2615 **Lead AAS Standard** SPECTROSOL

A 1000 ppm lead standard, ready for use. Each mL contains 1.00 +/-0.005mg of Pb in 0.5% nitric acid. Traceable to NIST

**Pack Size:** 500mL

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)

## Lead(II) Acetate

CAS 6080-56-4  
(CH<sub>3</sub>COO)<sub>2</sub>Pb.3H<sub>2</sub>O = 379.3

U.N Number.....1616  
ADG Class.....6.1  
Packing Group.....III



### 273 Lead(II) Acetate

UNIVAR

**Description:** colourless or white crystals, or crystalline powder.

Assay.....99.0 – 103.0%

Maximum limit of impurities(%)

Insol. in acetic acid..... 0.01

Cl..... 0.0005

NO<sub>3</sub>..... 0.005

Cu..... 0.002

Fe..... 0.001

Ca..... 0.005

Cd..... 0.0005

K..... 0.005

Mg..... 0.005

Na..... 0.01

Zn..... 0.0005

Conforms to ACS

Pack Size: 500g

### 274 Lead(II) Acetate

UNILAB

Assay.....99.5 - 104.5%

Maximum limit of impurities(%)

Insol..... 0.05

Cl..... 0.035

Cu..... 0.01

Fe..... 0.01

Pack Size: 500g, 5kg

### 275 Lead(II)Acetate

TECHNICAL

Assay.....98.5% min

Pack Size: 500g

## Lead Acetate

CAS 51404-69-4  
Approx. (CH<sub>3</sub>COO)<sub>2</sub>Pb.Pb(OH)<sub>2</sub>

U.N Number.....2291  
ADG Class.....6.1  
Packing Group.....III



### 289 Lead Acetate, Basic, Powder

UNIVAR

For sugar analysis according to Horne.

**Description:** heavy white powder.

Basic lead (as PbO).....33.0% min

Total lead (as PbO).....75% min

Maximum limit of impurities(%)

Insol. (in CH<sub>3</sub>COOH)..... 0.02

Insol. (in H<sub>2</sub>O)..... 1.0

L.O.D..... 1.0

Cl..... 0.003

NO<sub>3</sub>..... 0.003

Cu..... 0.002

Fe..... 0.002

Ca..... 0.005

Cd..... 0.001

Co..... 0.001

K..... 0.01

Mg..... 0.005

Na..... 0.01

Conform to ACS

Pack Size: 500g, 5kg



## Lead Bromide

CAS 10031-22-8  
PbBr<sub>2</sub> = 367.01

U.N Number.....2291  
ADG Class.....6.1  
Packing Group.....III



### 2304 Lead Bromide

LABCHEM

Assay ( ex Pb).....99% min.

Pack Size: 500g

## Lead Carbonate

CAS 1319-46-6  
Approx <sup>2</sup>PbCO<sub>3</sub>.Pb(OH)<sub>2</sub> = 775.63

U.N Number.....3288  
ADG Class.....6.1  
Packing Group.....III



### 1116 Lead Carbonate,Basic

UNILAB

Assay(as Pb).....77 - 80% min

Maximum limit of impurities(%)

Fe..... 0.005  
Zn..... 0.005  
Cl..... 0.03

Cu..... 0.005  
Insol in CH<sub>3</sub>COOH..... 0.02  
Nitrate + Nitrite..... 0.005

Pack Size: 500g

## Lead(II) Chloride

CAS 7758-95-4  
PbCl<sub>2</sub> = 278.1

U.N Number.....2291  
ADG Class.....6.1  
Packing Group.....III



### 1117 Lead(II) Chloride

UNILAB

Assay.....98.0% min

Maximum limit of impurities(%)

NO<sub>3</sub>..... 0.01

Fe..... 0.005

Pack Size: 500g

# Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Lead Dioxide

CAS 1309-60-0  
PbO<sub>2</sub> = 239.2

U.N Number.....1872  
ADG Class.....5.1  
Packing Group.....III



### 285 Lead Dioxide

UNIVAR

Description: dark brown amorphous powder.

Assay.....96% min

Maximum limit of impurities(%)

Insol. (in Nitric Acid).....	0.1	Mn.....	0.002
Cl.....	0.1	Cu.....	0.02
SO <sub>4</sub> .....	0.05	Ni.....	0.02

Pack Size: 100g, 500g

### 1118 Lead Dioxide

UNILAB

Particle size approx.....0.15 mm max.

Assay.....95%

Maximum limit of impurities(%)

Halides (as Cl).....	0.2	SO <sub>4</sub> .....	0.1
Insol in HCl.....	0.2		

Pack Size: 500g

Lead Hydroxide Carbonate (See Lead Carbonate Basic Page 253)

## Lead Iodide

CAS 10101-63-0  
PbI<sub>2</sub> = 461.0

U.N Number.....2291  
ADG Class.....6.1  
Packing Group.....III



### 278 Lead Iodide

LABCHEM

Pack Size: 100g

## Lead Monoxide, Litharge

CAS 1317-36-8  
PbO = 223.2

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



### 284 Lead Monoxide, Litharge

UNILAB

Assay.....98% min

Maximum limit of impurities(%)

L.O.I.....	0.5	Fe.....	0.02
------------	-----	---------	------

Pack Size: 500g, 5kg, 25kg

## Lead(II) Nitrate

CAS 10099-74-8  
 $Pb(NO_3)_2 = 331.2$

U.N Number.....1469  
 ADG Class.....5.1  
 SUB.....6.1  
 Packing Group.....II



280

### Lead(II) Nitrate

UNIVAR

**Description:** white crystals or crystalline powder.

Assay.....99.0% min

Maximum limit of impurities(%)

Insol..... 0.005  
 Cl..... 0.001  
 Cu..... 0.002  
 Fe..... 0.001

Ca..... 0.005  
 K..... 0.005  
 Na..... 0.02

Conforms to ACS

Pack Size: 500g, 5kg

281

### Lead(II) Nitrate

UNILAB

Assay.....99.0% min

Maximum limit of impurities(%)

Cl..... 0.01

Fe..... 0.002

Pack Size: 500g, 5kg

932

### Lead(II) Nitrate

LABCHEM

Assay.....98.0% min

Maximum limit of impurities(%)

Cl..... 0.01

Fe..... 0.01

Pack Size: 500g

## Lead Oxide, (red)

CAS 1314-41-6  
 $Pb_3O_4 = 685.6$

U.N Number.....1479  
 ADG Class.....5.1  
 Packing Group.....III



748

### Lead Oxide, (red lead)

UNIVAR

**Description:** heavy, red powder.

Assay.....96% min

Maximum limit of impurities(%)

Insol. (in  $HNO_3-H_2O_2$ )..... 0.1  
 Cl..... 0.01

Matter not pptd by  $H_2S$  (as  $SO_4$ )..... 0.5

Pack Size: 500g, 5kg

**1119** **Lead Oxide**(red lead)

UNILAB

PbO.....approx. 15%  
 Assay.....85.0% min

Maximum limit of impurities(%)

Insol. (in acid)..... 0.5                      Cl..... 0.02

**Pack Size:** 500g**Lead (II) Oxide** (See Lead Monoxide Litharge Page 254 )**Lead (IV) Oxide** (See Lead Dioxide Page 254 )**Lead Oxide Brown** (See Lead Dioxide Page 254 )**Lead Oxide Yellow** (See Lead Monoxide Litharge Page 254 )**Lead Peroxide** (See Lead Dioxide Page 254 )**Lead Sub-Acetate** (See Lead Acetate Basic Pdr Page 252 )**Lead Sulphate**

CAS 7446-14-2  
 PbSO<sub>4</sub> = 303.25

U.N Number.....2291  
 ADG Class.....6.1  
 Packing Group.....III

**221** **Lead Sulphate**

UNILAB

Assay.....99% min

Maximum limit of impurities(%)

Insol in Amm Acet..... 0.1 max.                      LOI..... 0.5  
 Cl..... 0.005    Fe..... 0.005 max.

**Pack Size:** 500g**Lead Tetroxide** (See Lead Oxide Red Lead Page 255 )**Leishman's Stain**

CAS 12627-53-1

**3228** **Leishman's Stain**

OP

Stain for microscopy. A neutral dye suitable to differentiate & identify leucocytes, malarial parasites & trypanosomes.  
 Lambda max 642 (522)nm in Methanol.

**Pack Size:** 25g

## Leishman Stain Solution

U.N Number.....1230  
 ADG Class.....3  
 SUB.....6.1  
 Packing Group.....II



### 1836 Leishman Stain Solution

LABCHEM

0.25% in Methanol

Pack Size: 1L, 5L

## L-Leucine

CAS 61-90-5  
 $C_6H_{13}NO_2 = 131.2$

### 2019 L-Leucine

UNIVAR

**Description:** White crystalline powder

Assay.....99.0% min.

Specific rotation.....+14.9 to +16.5°

Maximum limit of impurities(%)

Fe..... 0.005

As..... 0.0003

H.M. (as Pb)..... 0.003

L.O.D..... 0.1

Pack size: 50g

**Levodopa** (See 3,(3-4 Dihydroxy Phenyl) L-Alanine Page 178 )

## Light Green (C.I. 42095)

CAS 5141-20-8  
 $C_{37}H_{34}N_2O_9S_3Na_2 = 792.9$

### 3230 Light Green (C.I. 42095)

OP

**Description:** Dark reddish powder

Absorption maximum.....629 – 634nm

Pack size: 10g

**Lime** (See Calcium Oxide Lump Page 125 )

**Lissamine Green SF** (See Light Green (CI 42095) Page 257 )

**Litharge** (See Lead Monoxide Litharge Page 254 )

## Lithium 1000ppm Single Element ICP Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2658 Lithium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Lithium standard, ready for use.  
Li in 0.5% nitric acid.

Pack Size: 100mL

## Lithium AAS Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2616 Lithium AAS Standard

SPECTROSOL

A 1000 ppm Lithium standard, ready for use. Each mL  
contains 1.00 +/-0.005mg of Li in 0.5% nitric acid.

Traceable to NIST

Pack Size: 500mL

## Lithium Bromide

CAS 7550-35-8  
LiBr = 86.84

### 2367 Lithium Bromide

UNILAB

Assay(after drying).....99.0% min

Maximum limit of impurities(%)

L.O.D. (@ 400°C)..... 0.5  
Cl..... 0.15  
SO<sub>4</sub>..... 0.01  
Ca..... 0.005

Fe..... 0.001  
K..... 0.05  
Mg..... 0.002

Pack Size: 100g

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## Lithium Carbonate

CAS 554-13-2  
Li<sub>2</sub>CO<sub>3</sub> = 73.89

### 1289 Lithium Carbonate UNILAB

**Description:** white powder.

Assay.....98.5 - 100.5%

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test

As..... 0.0002

Ca..... 0.0200

Cl..... 0.0200

Fe..... 0.0020

H.M. (as Pb)..... 0.0020

K..... 0.0300

Mg..... 0.0150

Na..... 0.0300

SO<sub>4</sub>..... 0.0200

Chemical and physical parameters conform to BP

**Pack Size:** 500g

## Lithium Chloride

CAS 7447-41-8  
LiCl = 42.40

### 292 Lithium Chloride, dried UNILAB

Assay.....98.0% min

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.03

Ca..... 0.1

Fe..... 0.001

K..... 0.01

Na..... 0.05

H.M. (as Pb)..... 0.001

**Pack Size:** 100g, 500g,5kg

## Lithium Fluoride

CAS 7789-24-4  
LiF = 25.94

U.N Number.....3288

ADG Class.....6.1

Packing Group.....II



### 293 Lithium Fluoride UNIVAR

**Description:** White fluffy powder

Assay.....99.5% min.

Maximum limit of impurities(%)

Mg..... 0.001

Ca..... 0.05

Fe..... 0.01

H.M. (as Pb)..... 0.0005

Cl..... 0.01

SO<sub>4</sub>..... 0.01

Mn..... 0.0005

Cu..... 0.0005

Cd..... 0.0005

**Pack size:** 100g, 500g

## Lithium Hydroxide

CAS 1310-66-3  
LiOH.H<sub>2</sub>O = 41.96

U.N Number.....2680  
ADG Class.....8  
Packing Group.....II



### 294 Lithium Hydroxide

UNILAB

Assay.....98.0% min

Maximum limit of impurities(%)

K.....0.05

Li<sub>2</sub>CO<sub>3</sub>......1

Cl.....0.02

SO<sub>4</sub>.....0.03

Ca.....0.02

Fe.....0.001

Na.....0.05

Pack Size: 500g,5kg

## Lithium Nitrate

CAS 7790-69-4  
LiNO<sub>3</sub> = 68.95

U.N Number.....2722  
ADG Class.....5.1  
Packing Group.....III



### 1069 Lithium Nitrate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....0.01

SO<sub>4</sub>.....0.2

Fe.....0.005

Water.....1.0

Alkalinity.....0.05

Pack Size: 500g

## Lithium Sulphate

CAS 10377-48-7  
Li<sub>2</sub>SO<sub>4</sub>.H<sub>2</sub>O = 127.95

### 624 Lithium Sulphate

UNIVAR

**Description:** white crystals or crystalline powder.

Assay.....99.0% min.

L.O.D. (150°C).....13.0 – 15.0%

Maximum limit of impurities(%)

Insol.....0.01

Cl.....0.002

NO<sub>3</sub>.....0.001

Fe.....0.001

H.M. (as Pb).....0.001

K.....0.05

Na.....0.05

Conforms to ACS

Pack Size: 500g



## Lithium Sulphate

CAS 12007-60-2

 $\text{Li}_2\text{B}_4\text{O}_7 = 169.16$ **773**

### Lithium Sulphate

UNIVAR

Description: light, white powder.

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl. .... 0.01

Ca. .... 0.009

Fe. .... 0.01

H.M. (Pb). .... 0.005

K. .... 0.01

Mg. .... 0.05

Na. .... 0.05

Sr. .... 0.05

Pack Size: 500g, 5kg

## Litmus

CAS 1393-92-6

**1203**

### Litmus

LABCHEM

Description: Blue powder

Visual transition interval: pH 4.5 (red) to pH 8.3 (blue)

Pack size: 100g, 500g

**20-EACH**

### Litmus Paper Blue

LABCHEM

For indication of acidity of chemical solution.

Red litmus paper turns red when in contact with acidic solution.

Pack Size: 200 Leaves

**19-EACH**

### Litmus Paper Red

LABCHEM

For indication of alkalinity of chemical solution.

Red litmus paper turns blue when in contact with alkaline solution.

Pack Size: 200 Leaves

## Lugol's Iodine

**1833**

### Lugol's Iodine Solution

LABCHEM

This is used generally to prepare Gram's stain (1 part Lugol's in 5 parts water)

Iodine.....1% max.

Potassium Iodide.....1% max.

Pack Size: 1L, 5L

## L-Lysine Monohydrochloride

CAS 657-27-2

$\text{NH}_2(\text{CH}_2)_4\text{CH}(\text{NH}_2)\text{COOH}\cdot\text{HCl} = 182.65$

### 2469 L-Lysine Monohydrochloride

UNILAB

Assay(L-form).....98.5% min  
Rotn. (C=8, 6NHCl).....+ 19.0 to 21.5°

Maximum limit of impurities(%)

$\text{SO}_4$ ..... 0.03  
Fe..... 0.003  
H.M. (as Pb)..... 0.0010

LOD..... 0.5  
ROI..... 0.1  
As..... 0.0001

Pack Size: 25g

## Magnesium 1000ppm Single Element ICP Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2640 Magnesium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Magnesium standard, ready for use.  
Mg in 0.5% Nitric acid.

Pack Size: 100mL

## Magnesium AAS Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2604 Magnesium AAS Standard

SPECTROSOL

1000 ppm magnesium standard, ready for use. Each mL contains 1.00mg +/- 0.005 mg of Mg in 0.5% nitric acid.  
Traceable to NIST

Pack Size: 500mL

## Magnesium, powder

CAS 7439-95-4  
Mg = 24.31

U.N Number.....1418  
ADG Class.....4.3  
SUB.....4.2  
Packing Group.....II



### 677 Magnesium, powder

LABCHEM

Assay.....95% min.

Maximum limit of impurities(%)

Fe..... 0.05  
Si..... 0.05  
Cu..... 0.02

Mn..... 0.1  
Al..... 0.05  
Ni..... 0.002

Pack Size: 100g, 5kg

## Magnesium Ribbon

CAS 7439-95-4  
Mg = 24.31

U.N Number.....1869  
ADG Class.....4.1  
Packing Group.....III



### 2289 Magnesium Ribbon

LABCHEM

Pack Size: 25g, 100g

## Magnesium Turnings

CAS 7439-95-4  
Mg = 24.31

U.N Number.....1869  
ADG Class.....4.1  
Packing Group.....III



### 1121 Magnesium Turnings, Grignard Reaction

LABCHEM

Assay.....99.5% min.

Maximum limit of impurities(%)

Insol in HCl.....	0.01	Mn.....	0.01
Al.....	0.01	Na.....	0.01
Cu.....	0.01	Ni.....	0.01
Fe.....	0.05	Si.....	0.01

Pack Size: 500g, 5kg

## Magnesium Acetate

CAS 142-72-3  
(CH<sub>3</sub>COO)<sub>2</sub>Mg.4H<sub>2</sub>O = 214.46

### 295 Magnesium Acetate

UNIVAR

Description: colourless crystals.

Assay.....99.5-102.0%  
pH(5%, 20°C).....8-9

Maximum limit of impurities(%)

Insol.....	0.005	H.M. (as Pb).....	0.0005
Cl.....	0.001	K.....	0.001
N cpds (as N).....	0.001	Mn.....	0.001
SO <sub>4</sub> .....	0.005	Na.....	0.001
Ba.....	0.001	Sr.....	0.001
Ca.....	0.01	Cd.....	0.0005
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g

### 1371 Magnesium Acetate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.02	Fe.....	0.001
SO <sub>4</sub> .....	0.03	H.M. (as Pb).....	0.002

Pack Size: 500g

## Magnesium Chloride

CAS 7791-18-6  
 $\text{MgCl}_2 \cdot 6\text{H}_2\text{O} = 203.30$

### 296 Magnesium Chloride UNIVAR

**Description:** colourless hygroscopic crystals.  
 Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol.....	0.005	
$\text{NO}_3$ .....	0.001	$\text{SO}_4$ .....
$\text{PO}_4$ .....	0.0005	Cu.....
Zn.....	0.0005	Fe.....
Mn.....	0.0005	Pb.....
H.M (as Pb).....	0.0005	K.....
As.....	0.0003	Na.....
Ba.....	0.002	Sr.....
$\text{NH}_4$ .....	0.002	Ca.....

Chemical and physical parameters conform to FCC  
 Conforms to ACS

Pack Size: 500g, 5kg, 25kg

### 297 Magnesium Chloride UNILAB

**Description:** colourless crystals; hygroscopic.  
 Assay.....98.0 - 101.0%

Maximum limit of impurities(%)

Acidity or alkalinity.....	0.6 mmol H or OH	
Appearance of solution.....	to pass test	H.M. (as Pb).....
$\text{SO}_4$ .....	0.01	Br.....
As.....	0.0002	Al.....
Ca.....	0.1	K.....
Fe.....	0.001	Water.....

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

## Magnesium Carbonate Light

CAS 12125-28-9  
 Approx.  $3\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$

### 1122 Magnesium Carbonate Light UNILAB

**Description:** white powder; odourless.  
 Bulk density.....about 83g/L  
 Assay(as MgO).....40.0 - 45.0%

Maximum limit of impurities(%)

Insol. (in $\text{CH}_3\text{COOH}$ ).....	0.05	As.....
Sol. (in $\text{H}_2\text{O}$ ).....	1.0	Ca.....
Colour of soln.....	To pass test	Fe.....
Cl.....	0.07	H.M. (as Pb).....
$\text{SO}_4$ .....	0.3	

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 20kg

## Magnesium Hydroxide

CAS 1309-42-8  
Mg(OH)<sub>2</sub> = 58.33

### 1372 Magnesium Hydroxide

UNILAB

**Description:** white, fine, amorphous powder; odourless.

Assay.....95.0 - 100.5%  
L.O.I. at 800°C.....30.0- 33.0%  
L.O.D. at 105°C,2h.....2.0% max

Maximum limit of impurities(%)

Insol. (in CH<sub>3</sub>COOH)..... 0.10  
Soluble salts..... To pass test  
Colour of soln..... To pass test  
Ca..... 1.5

CO<sub>3</sub>.....To pass test  
H.M. (as Pb)..... 0.0020  
Lead..... 0.0010

Chemical and physical parameters conform to USP

Pack Size: 500g, 25kg

## Magnesium Nitrate

CAS 13446-18-9  
Mg(NO<sub>3</sub>)<sub>2</sub>.6H<sub>2</sub>O = 256.41

U.N Number.....1474  
ADG Class.....5.1  
Packing Group.....III



### 299 Magnesium Nitrat

UNIVAR

**Description:** colourless or white deliquescent crystals or crystalline masses.

Assay.....98.0 - 102.0%  
pH(5% soln. @ 25°C).....5.0 - 8.2

Maximum limit of impurities(%)

Insol..... 0.005  
Cl..... 0.001  
PO<sub>4</sub>..... 0.0005  
SO<sub>4</sub>..... 0.005  
Ba..... 0.005  
Ca..... 0.01  
Fe..... 0.0005

H.M. (as Pb)..... 0.0005  
K..... 0.005  
Mn..... 0.0005  
Na..... 0.005  
NH<sub>4</sub>..... 0.003  
Sr..... 0.005

Conforms to ACS

Pack Size: 500g

### 300 Magnesium Nitrate

UNILAB

Assay.....98-102%  
pH(5% soln. @ 25°C).....5.0-8.2

Maximum limit of impurities(%)

Cl..... 0.005  
SO<sub>4</sub>..... 0.01  
Ca..... 0.1

Fe..... 0.002  
H.M. (as Pb)..... 0.001

Pack Size: 500g, 5kg

## Magnesium Oxide

CAS 1309-48-4  
MgO = 40.30

### 828 Magnesium Oxide, Light UNIVAR

Assay.....	98.0 – 100.5%		
Maximum limit of impurities(%)			
L.O.I. ....	5.0	Pb. ....	0.0005
Soluble matter in water. ....	1.0	Zn. ....	0.001
Insolubles in Acetic Acid. ....	0.1	H.M. (as Pb). ....	0.002
Insolubles in HCl. ....	0.1	Cl. ....	0.05
As. ....	0.0002	SO <sub>4</sub> . ....	0.5
Ca. ....	1.0	Free alkali + soluble salts. ....	to comply
Cu. ....	0.001	Appearance of the solution. ....	to comply
Fe. ....	0.02	Residual solvents. ....	to comply

Pack Size: 100g, 500g

### 1124 Magnesium Oxide, Light UNILAB

**Description:** white, fine, amorphous powder; odourless.

Assay(after ign.).....	96.0 - 100.5%
Bulk density.....	130g/L min.

Maximum limit of impurities(%)

Insol. (in CH <sub>3</sub> COOH). ....	0.1	Ca. ....	1.1
L.O.I. (@800 Deg.C). ....	10.0	Fe. ....	0.05
Free alkali & soluble salts. ....	2.0	H.M.(as Pb). ....	0.004
As. ....	0.0003		

Coforms to USP

Pack Size: 500g, 5kg

### 835 Magnesium Oxide, Heavy UNILAB

**Description:** white to off-white granules.

Bulk density.....	about 350g/L
Assay(after ign.).....	96%

Maximum limit of impurities(%)

Insol. (in HCl). ....	0.1	Ca. ....	1.5
L.O.I. ....	10.0	Fe. ....	0.05
Sol. (in H <sub>2</sub> O). ....	2.0	H.M. (as Pb). ....	0.004

Pack Size: 500g, 5kg

## HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)

## Magnesium Perchlorate

CAS 10034-81-8  
Mg(ClO<sub>4</sub>)<sub>2</sub> = 223.22

U.N Number.....1475  
ADG Class.....5.1  
Packing Group.....II



### 1679 Magnesium Perchlorate

UNIVAR

**Description:** white, porous granules.

Maximum limit of impurities(%)

Titrateable free acid.....0.005 meq/g

Titrateable base.....0.025 meq/g

H<sub>2</sub>O..... 8.0

Suitability for moisture absorption.....To pass test

Conforms to ACS

Pack Size: 500g

## Magnesium sulphate

CAS 10034-99-8  
Approx MgSO<sub>4</sub>.3H<sub>2</sub>O

### 1548 Magnesium sulphate, dried

UNILAB

**Description:** white solid ; odourless or almost odourless.

Assay(as MgSO<sub>4</sub>).....62.0 - 70.0%

Maximum limit of impurities(%)

Insol..... To pass test

Acidity or alkalinity..... To pass test

Cl..... 0.04

As..... 0.0003

Fe..... 0.003

H.M. (as Pb)..... 0.0015

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

## Magnesium Sulphate,Hydrated

CAS 10034-99-8  
MgSO<sub>4</sub>.7H<sub>2</sub>O = 246.47

### 302 Magnesium Sulphate,Hydrated

UNIVAR

**Description:** colourless, efflorescent crystals.

Assay.....98.0 - 102.0%

pH(5% soln. @ 25°C).....5.0-8.2

Maximum limit of impurities(%)

Insol..... 0.005

Cl..... 0.0005

Mn..... 0.0005

Zn..... 0.0005

H.M.(as Pb)..... 0.0005

NO<sub>3</sub>..... 0.002

NH<sub>4</sub>..... 0.002

As..... 0.0002

Ca..... 0.002

Sr..... 0.002

Fe..... 0.0001

Cu..... 0.0001

Pb..... 0.0001

K..... 0.001

Na..... 0.001

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

### 303 Magnesium Sulphate, Hydrated UNILAB

**Description:** brilliant, colourless crystals or a white, crystalline powder; odourless.

Assay.....99.0 - 100.5% min.  
L.O.D.....48.0 - 52.0%

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test  
Acidity or alkalinity..... 0.2 mmol H or OH  
Cl..... 0.03  
As..... 0.0002

Fe..... 0.002  
H.M. (as Pb)..... 0.001  
Se..... 0.003

Chemical and physical parameters conform to BP & FCC

**Pack Size:** 500g, 5kg, 25kg

### Malachite Green (C.I.42000)

CAS 569-64-2

### 3233 Malachite Green (C.I.42000) OP

Stain for microscopy. pH indicator.

Assay.....90% min.

Maximum limit of impurities(%)

Zn..... 0.0025

Pb..... 0.005

**Pack Size:** 25g, 50g

### Maleic Acid

CAS 110-16-7

HOOCCH:CHCOOH = 116.07

### 1125 Maleic Acid UNILAB

**Description:** white, crystalline powder; odourless.

Assay(after drying).....99.0-101.0%

Maximum limit of impurities(%)

Sulph. ash..... 0.1  
L.O.D..... 2.0  
Fumaric acid..... to pass test

Clarity & colour of solution..... to pass test  
H.M. (as Pb)..... 0.0010  
Iron..... 0.0005

Chemical and physical parameters conform to BP

**Pack Size:** 100g, 5kg

### DL-Malic Acid

CAS 617-48-1

HOCOCH<sub>2</sub>CHOHCOOH = 134.09

### 2361 DL-Malic Acid UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Residue on ignition..... 0.25  
Fe..... 0.005

H.M. (as Pb)..... 0.005

**Pack Size:** 500g



## Malonic Acid

CAS 141-82-2  
 $\text{CH}_2(\text{COOH})_2 = 104.06$

### 305 Malonic Acid UNILAB

Assay.....98.5% min.  
 MR.....130 – 135°C

Maximum limit of impurities(%)

Sulph. ash.....	0.5	
Cl.....	0.01	SO <sub>4</sub> ..... 0.1

Pack Size: 100g

## Maltose

CAS 69-79-4  
 $\text{C}_{12}\text{H}_{22}\text{O}_{11} \cdot \text{H}_2\text{O} = 360.32$

### 1126 Maltose Bacteriological LABCHEM

Spec. rotn. ....+135 to +139°.

Pack Size: 100g, 1kg

## Manganese 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2641 Manganese 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Manganese standard, ready for use.  
 Mn in 0.5% Nitric acid.

Pack Size: 100mL

## Manganese AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2617 Manganese AAS Standard SPECTROSOL

A 1000 ppm Manganese standard, ready for use.  
 Each mL contains 1.00+/-0.005mg of Mn in 0.5% Nitric acid.

Traceable to NIST

Pack Size: 500mL

## Manganese Powder

CAS 7439-96-5  
Mn = 54.93

U.N Number.....3089  
ADG Class.....4.1  
Packing Group.....III



### 2345 Manganese Powder

LABCHEM

Description: Grey-brown-black powder  
Assay.....99.0%

Pack size: 100g

## Manganese(II) Acetate

CAS 638-38-0  
(CH<sub>3</sub>COO)<sub>2</sub>Mn.4H<sub>2</sub>O = 245.09

### 1533 Manganese(II) Acetate

UNILAB

Assay.....99.5% min.

Maximum limit of impurities(%)

Fe.....	0.0005	Cl.....	0.001
Cu.....	0.0005	SO <sub>4</sub> .....	0.005
Ni.....	0.002	Insol.....	0.01

Pack Size: 500g

## Manganese(II) Carbonate

CAS 598-62-9  
MnCO<sub>3</sub>.xH<sub>2</sub>O

### 306 Manganese(II) Carbonate

UNILAB

Assay(as Mn).....43% min.

Maximum limit of impurities(%)

Cl.....	0.02	Na.....	0.2
SO <sub>4</sub> .....	0.02	H.M.(as Pb).....	0.005
Fe.....	0.005		

Pack Size: 500g

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Manganese(II) Chloride

CAS 7773-01-5  
MnCl<sub>2</sub>·4H<sub>2</sub>O = 197.90

### 307 Manganese(II) Chloride UNIVAR

**Description:** pink deliquescent crystals.

Assay.....98.0-101.0%  
pH(5% soln. @ 25°C).....3.5 – 6.0

Maximum limit of impurities(%)

Insol.....	0.005		
SO <sub>4</sub> .....	0.005	Ca.....	0.005
Fe.....	0.0005	Mg.....	0.005
H.M. (as Pb).....	0.0005	K.....	0.01
Zn.....	0.005	Na.....	0.05

Conforms to ACS

Pack Size: 500g

### 1127 Manganese(II) Chloride UNILAB

Assay.....96% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.06		
Fe.....	0.01	H.M. (as Pb).....	0.001

Pack Size: 500g

## Manganese Dioxide

CAS 1313-13-9  
MnO<sub>2</sub> = 86.94

### 793 Manganese Dioxide, Precipitated UNILAB

Assay.....90% min.  
Typical Mesh Size.....200

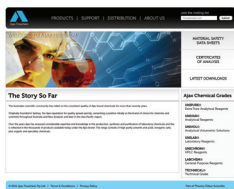
Maximum limit of impurities(%)

Insol. (in acid).....	3.5	Fe.....	0.5
L.O.D (@105DegC).....	0.3	SiO <sub>2</sub> .....	3

Pack Size: 500g

### 598 Manganese Dioxide TECHNICAL

Pack Size: 500g



## Your Window to Ajax Finechem

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## Manganese(II) Sulphate, Monohydrate

CAS 7785-87-7  
MnSO<sub>4</sub>.H<sub>2</sub>O = 169.01

### 309 Manganese(II) Sulphate, Monohydrate UNIVAR

**Description:** pale pink crystalline powder.

Assay.....98.0 - 101.0%

L.O.I. (@ 400-500°C).....10.0 - 12.0%

Maximum limit of impurities(%)

Insoluble matter..... 0.01

Cl..... 0.005

Ca..... 0.005

H.M. (as Pb)..... 0.002

Ni..... 0.02

Zn..... 0.005

Subs. reducing KMnO<sub>4</sub>..... To pass test

Fe..... 0.002

Mg..... 0.005

K..... 0.01

Na..... 0.05

Conforms to ACS

Pack Size: 500g, 5kg

### 298 Manganese(II) Sulphate, Monohydrate UNILAB

Assay (after ign. @ 450 - 500°C).....98% min.

L.O.I. (@ 450-500°C) .....10.0 - 12.0%

Maximum limit of impurities(%)

Cl..... 0.035

Ca..... 0.005

Fe..... 0.004

H.M. (as Pb)..... 0.004

Zn..... 0.05

Pack Size: 500g, 5kg, 25kg

**Manganous Acetate** (See Manganese (II) Acetate Page 270 )

**Manganous Carbonate** (See Manganese (II) Carbonate Page 270 )

**Manganous Chloride** (See Manganese (II) Chloride Page 271 )

**Manganous Sulphate** (See Manganese (II) Sulphate Monohydrate Page 272 )

# Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Mannitol

CAS 69-65-8  
 $\text{CH}_2\text{OH}(\text{CHOH})_4\text{CH}_2\text{OH} = 182.17$

**310**

### Mannitol

UNIVAR

**Description:** white, crystalline powder.  
 Assay.....99.0 - 101.5% min.  
 M.P. ....164 – 168°C  
 Spec. rotn. (@ 25°C)..... + 23.3 to +24.3°

Maximum limit of impurities(%)  
 Insol. .... 0.01  
 R.A.I. .... 0.01  
 L.O.D. .... 0.05  
 Titratable acid. .... 0.0008 meq/g  
 H.M. (as Pb)..... 0.0005

Red. Sugars. .... passes test  
 As. .... passes test  
 Cl. .... 0.007  
 SO<sub>4</sub>..... 0.01

Conforms to ACS & FCC

**Pack Size:** 500g, 5kg

**1101**

### Mannitol

UNILAB

Assay (W.R.T.D.S.).....98.0 - 101.5%  
 M.P. ....165-170°C  
 Spec rotn. ....+23 to +25°C  
 Conductivity.....(20mS-cm max)

Maximum limit of impurities(%)  
 Sulph. ash. .... 0.1  
 L.O.D. .... 0.5  
 Acidity..... 0.12  
 Cl. .... 0.005  
 SO<sub>4</sub>..... 0.01  
 Pb..... 0.00005

Absence of reducing sugars. . . . 0.2 cal as glucose equ  
 Clarity & colour of soln.....To pass test  
 Ni. .... 0.0001  
 Sorbitol. ....To pass test  
 Related substances. .... To pass test  
 Identity..... pass BP

Chemical and physical parameters conform to BP

**Pack Size:** 500g, 5kg, 25kg

## D(+)-Mannose

CAS 3458-28-4  
 $\text{C}_6\text{H}_{12}\text{O}_6 = 180.2$

**3073**

### D(+)-Mannose

UNILAB

**Description:** White crystalline hygroscopic powder  
 Assay.....98.0% min.

Maximum limit of impurities(%)  
 Mg. .... 0.0005  
 Ca. .... 0.001  
 Fe..... 0.0005  
 H.M. (as Pb)..... 0.005

Insoluble matter. .... 0.1  
 Cl. .... 0.005  
 SO<sub>4</sub>..... 0.005

**Pack size:** 100g

## Marble Chips

### 1515 Marble Chips

TECHNICAL

About.....3-5mm

Pack Size: 1kg, 3kg, 25Kg

## Mayer'S Haematoxylin

### 1831 Mayer'S Haematoxylin Solution

LABCHEM

Haematoxylin.....1g/L

Pack Size: 1L, 5L

## May-Grunwald's Stain

### 3234 May-Grunwald's Stain

OP

Stain for microscopy.

Pack Size: 25g

## May-Grunwald Stain Solution

U.N Number.....1992

ADG Class.....3

SUB.....6.1

Packing Group.....II



### 3235 May-Grunwald Stain Solution

LABCHEM

0.25% w/v in Methanol

Pack Size: 500mL

MEK (See Ethyl Methyl Ketone Page 202 )

## Mek/Cyclohexanone 40/60

CAS 108-94-1

U.N Number.....1224

ADG Class.....3

Packing Group.....II



### 4578 Mek/Cyclohexanone 40/60

LABCHEM

M.E.K.....39 - 41% v/v

Density (@ 20°C).....0.885 - 0.895

Cyclohexanone.....59 - 61% v/v

Pack Size: 20L

## Menthol

CAS 89-78-1  
 $C_{10}H_{20}O = 156.26$

### 1283 Menthol

UNILAB

Description: Colourless to white crystals or granules  
 Assay.....99.0%  
 Melting point.....41 - 44°C

Pack size: 100g

**Mercaptoacetic Acid** (See Thioglycolic Acid Page 448 )

## 2-Mercaptobenzothiazole

CAS 149-30-4  
 $C_7H_5NS_2 = 167.25$

U.N Number.....3077  
 ADG Class.....9  
 Packing Group.....III



### 3164 2-Mercaptobenzothiazole

LABCHEM

Assay.....99% Min.  
 M.P. ....176 – 179°C

Pack Size: 25g

## 2-Mercaptoethanol

CAS 60-24-2  
 $HS.CH_2CH_2OH = 78.13$

U.N Number.....2966  
 ADG Class.....6.1  
 Packing Group.....II



### 3170 2-Mercaptoethanol For Synthesis

LABCHEM

Assay.....98% Min.  
 Wt per ml @ 20°C.....About 1.12g  
 R.I. ....1.499 – 1.502

Pack Size: 100 mL

## Mercurisorb Mercury Clean Up Kit

U.N Number.....1493  
 ADG Class.....5.1  
 Packing Group.....II



### 3283 Mercurisorb Mercury Clean Up Kit

AJAX

The kit comprises of all the necessary equipment to clean up a spill of up to 100 grams of mercury, i.e. disposable pipettes for collection of globules before clean up using brush, scoop, disposable gloves and Mercurisorb absorbent.

Pack Size: EACH

## Mercurisorb Refill

U.N Number.....1493  
ADG Class.....5.1  
Packing Group.....II



### 3284 Mercurisorb Refill

AJAX

Refill for Mercurisorb kit. Absorbent capacity for treatment of mercury spills is approx. 250g mercury per 250g Mercurisorb.

Pack Size: 250g

### 3285 Mercurisorb Refill

AJAX

Refill for Mercurisorb kit. Absorbent capacity for treatment of mercury spills is approx. 1kg mercury per 1kg Mercurisorb.

Pack Size: 1kg

**Mercuric Nitrate** (See Mercury (II) Nitrate Page 281 )

## Mercury

CAS 7439-97-6  
Hg = 200.59

U.N Number.....2809  
ADG Class.....8  
Packing Group.....III



### 317 Mercury

UNIVAR

**Description:** Silvery liquid metal with a bright surface. Triple distilled fine virgin mercury.

Density.....about 13.5g/mL  
Assay.....99.99%

Maximum limit of impurities(%)

**Appearance.**.....To pass test

Cd.....	0.0001
Ca.....	0.002
Cu.....	0.0002
Fe.....	0.0003
Pb.....	0.0002

Mg.....	0.0005
K.....	0.005
Zn.....	0.003
Ni.....	0.0001
Ag.....	0.002

Pack Size: 500g

# Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

**Cat-No**    **Pack Size**  
**8745**      500g, 1kg, 3kg, 5kg, 25kg



**1761 Mercury** LABCHEM

Density.....about 13.5 g/mL  
 Assay.....99.9% min.  
 Appearance – To pass Test

Maximum limit of impurities(%)  
 Cd..... 0.001  
 Pb..... 0.001  
 Fe..... 0.001

Pack Size: 500g

**5583 Mercury** TECHNICAL

May contain rust & dust impurities.  
 Density.....about 13.5 g/mL  
 Assay.....99% min.

Pack Size: 500g

**Mercury 1000ppm Single Element ICP Standard**

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....II



**2642 Mercury 1000ppm Single Element ICP Standard** UNIPURE

A 1000 ppm Mercury standard, ready for use.  
 Hg in 6.5% Nitric acid.

Pack Size: 100mL

**Mercury AAS Standard**

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....II



**2618 Mercury AAS Standard** SPECTROSOL

A 1000 ppm Mercury standard, ready for use.  
 Each ml contains 1.00mg+/-0.005mg of Hg in 6.5% Nitric acid.

Pack Size: 500mL

**Mercury(II) Acetate**

CAS 1600-27-7  
 (CH<sub>3</sub>COO)<sub>2</sub>Hg = 318.68

U.N Number.....1629  
 ADG Class.....6.1  
 Packing Group.....II



**1129 Mercury(II) Acetate** UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)  
 Fe..... 0.001  
 Cl..... 0.005

Pack Size: 100g

**Mercuric Acetate** (See Mercury (II) Acetate Page 277 )

**Mercuric Chloride** (See Mercury (II) Chloride Powder Page 279 )

**Mercuric Iodide** (See Mercury (II) Iodide Red Page 280 )

**Mercuric Oxide** (See Mercury (II) Oxide Red Page 281 )

**Mercuric Sulphate** (See Mercury (II) Sulphate Page 282 )

**Mercuric Thiocyanate** (See Mercury (II) Thiocyanate Page 282 )

## Mercury (II) Bromide

CAS 7789-47-1  
HgBr<sub>2</sub> = 360.4

U.N Number.....1634  
ADG Class.....6.1  
Packing Group.....II



### 3052 Mercury (II) Bromide

UNILAB

Description: white crystalline powder  
Assay.....99.0%  
Melting point.....236 - 238°C

Maximum limit of impurities(%)  
Cl.....0.2

Pack size: 100g

## Mercurous Chloride

CAS 10112-91-1  
Synonyms: Calomel, Mercury (I) Chloride  
Hg<sub>2</sub>Cl<sub>2</sub> = 472.09

U.N Number.....2025  
ADG Class.....6.1  
Packing Group.....III



### 316 Mercurous Chloride

UNILAB

Assay(by iodometry).....99% min.

Maximum limit of impurities(%)  
Foreign heavy metals soluble.....0.002  
Mercury salts (as Pb)  
NH<sub>4</sub>.....0.01  
Substances not reducible with  
formic acid (R.O.I.).....0.1

L.O.D.....0.5  
Impurities with an..... To pass test  
acidic or alkaline reaction

Pack Size: 100g

## Mercury (I) Chloride

CAS 10112-91-1  
Hg<sub>2</sub>Cl<sub>2</sub> = 471.1

U.N Number.....2025  
ADG Class.....6.1  
Packing Group.....III



### 3160 Mercury (I) Chloride

UNILAB

**Description:** white to colourless fine powder

Assay.....98.0%

Maximum limit of impurities(%)

Ca. .... 0.005

Cd. .... 0.005

Fe. .... 0.005

Cu. .... 0.005

Pack size: 100g

## Mercury(II) Chloride

CAS 7487-94-7  
HgCl<sub>2</sub> = 271.50

U.N Number.....1624  
ADG Class.....6.1  
Packing Group.....II



### 311 Mercury(II) Chloride, Powder

UNIVAR

**Description:** heavy, white crystalline powder.

Assay.....99.5% min.

Maximum limit of impurities(%)

Sol. (in ether). .... To pass test

Res. after reduction. .... 0.02

Fe. .... 0.002

Conforms to ACS

Pack Size: 100g, 500g

### 312 Mercury(II) Chloride, Powder

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Sol. (in ether). .... To pass test

Sulph. ash. .... 0.05

Fe. .... 0.005

Pack Size: 100g, 500g

Mercury (I) Chloride (See Mercurous Chloride Page 278 )

## Mercury(II) Iodide, Red

CAS 7774-29-0  
HgI<sub>2</sub> = 454.40

U.N Number.....1638  
ADG Class.....6.1  
Packing Group.....II



### 313 Mercury(II) Iodide, Red

UNIVAR

**Description:** heavy, red powder.

Assay.....99.0% min.

Maximum limit of impurities(%)

Sol. (in KI soln.)..... To pass test

Hg(I) (as Hg)..... 0.1

Sol. Hg salts (as Hg)..... 0.05

Conforms to ACS

Pack Size: 100g, 500g

### 314 Mercury(II) Iodide, Red

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Sol. Hg salts (as Hg)..... 0.1

Pack Size: 100g, 500g

## Mercury(I) Nitrate

CAS 14836-60-3  
Hg<sub>2</sub>(NO<sub>3</sub>)<sub>2</sub>·2H<sub>2</sub>O = 561.22

U.N Number.....1627  
ADG Class.....6.1  
Packing Group.....II



### 1133 Mercury(I) Nitrate

UNIVAR

**Description:** colourless or white crystals becoming yellow during storage.

Assay.....97.0% min.

Maximum limit of impurities(%)

Insol..... 0.01

Fe..... 0.005

Non-vol..... 0.05

Hg<sup>2+</sup>..... 2.00

SO<sub>4</sub>..... 0.01

Chlorides (Cl)..... 0.02

Pack Size: 100g

### 1134 Mercury(I) Nitrate

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Non-vol..... 0.1

SO<sub>4</sub>..... 0.05

Pack Size: 100g

## Mercury(II) Nitrate

CAS 10045-94-0  
 $\text{Hg}(\text{NO}_3)_2 \cdot \text{H}_2\text{O} = 342.62$

U.N Number.....1625  
 ADG Class.....6.1  
 Packing Group.....II



**836**

### Mercury(II) Nitrate

UNIVAR

**Description:** colourless or white, moist crystals, turning yellow during storage.

Assay.....98.0% min.

Maximum limit of impurities(%)

Res. after reduction..... 0.01

Cl..... 0.002

SO<sub>4</sub>..... 0.002

Fe..... 0.001

Hg(I) (as Hg)..... 0.2

Conforms to ACS

Pack Size: 100g, 500g

**1130**

### Mercury(II) Nitrate

UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Sulph. ash..... 0.05

Cl..... 0.05

SO<sub>4</sub>..... 0.04

Pack Size: 500g

## Mercury(II) Oxide, Red

CAS 21908-53-2  
 $\text{HgO} = 216.59$

U.N Number.....1641  
 ADG Class.....6.1  
 Packing Group.....II



**1286**

### Mercury(II) Oxide, Red

UNILAB

Assay(after drying).....98.5% min.

Maximum limit of impurities(%)

Insoluble matter in HCl..... 0.3

Nitrogen Compounds (as N)..... 0.01

Chloride (Cl)..... 0.1

Sulphate (SO<sub>4</sub>)..... 0.05

Cu..... 0.005

Fe..... 0.005

Ni..... 0.005

Pb..... 0.005

Pack Size: 100g, 500g

**315**

### Mercury(II) Oxide, Yellow

UNILAB

Assay (after drying).....99.0 min.

Maximum limit of impurities(%)

Insoluble matter in HCl..... 0.05

R O I.(as SO<sub>4</sub>)..... 0.05

Nitrogen compounds (as N)..... 0.005

Residue after reducti on..... 0.05

SO<sub>4</sub>..... 0.01

Cl..... 0.03

Fe..... 0.003

Pb..... 0.001

Cu..... 0.001

Ni..... 0.001

Zn..... 0.001

Cd..... 0.001

Pack Size: 500g

## Mercury(II) Sulphate

CAS 7783-35-9  
HgSO<sub>4</sub> = 296.65

U.N Number.....1645  
ADG Class.....6.1  
Packing Group.....II



### 1131 Mercury(II) Sulphate

UNIVAR

**Description:** heavy, white powder.

Assay.....98.0% min.

Maximum limit of impurities(%)

Residue after reduction..... 0.02

Cl..... 0.003

NO<sub>3</sub>..... To Pass Test

Mercurous mercury(as Hg)..... 0.15

Fe..... 0.003

Cd..... 0.001

Ni..... 0.001

Zn..... 0.001

Cu..... 0.001

Pb..... 0.001

Pack Size: 25g, 100g

### 1669 Mercury(II) Sulphate

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

NO<sub>3</sub>..... 0.01

Pack Size: 100g

## Mercury(II) Thiocyanate

CAS 592-85-8  
Hg(SCN)<sub>2</sub> = 316.73

U.N Number.....1646  
ADG Class.....6.1  
Packing Group.....II



### 2458 Mercury(II) Thiocyanate

LABCHEM

**Description:** yellowish white powder.

Assay.....99% min.

Pack Size: 100g

**Mercurous Nitrate** (See Mercury (I) Nitrate Page 280 )

## Mes Biological Buffer

CAS 4432-31-9  
C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S= 195.20

### 3428 Mes Biological Buffer

UNIVAR

**Description:** White powder

Solubility (0.5M in H<sub>2</sub>O): Clear and complete

Assay.....99.0% min.

pKa @ 20°C.....6.0 – 6.3

pH(0.5M in H<sub>2</sub>O).....2.5 – 4.0

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 100g, 1kg

## Metanil Yellow (C.I. 13065)

CAS 587-98-4  
 $C_{18}H_{14}N_3NaO_3S = 375.4$

### 2351 Metanil Yellow (C.I. 13065)

LABCHEM

**Description:** Orange-coloured fine crystalline powder  
 Dye content.....70.0% min.  
 Assay.....95.0%  
 Indicator range pH.....1.2 – 2.8

Pack size: 100g, 500g

**Methanal** (See Formaldehyde Soln Page 207 )

**Methanethiomethane** (See Dimethyl Sulphide Page 183 )

## Methanol

CAS 67-56-1  
 $CH_3OH = 32.04$

U.N Number.....1230  
 ADG Class.....3  
 SUB.....6.1  
 Packing Group.....II



### 2314 Methanol

UNICHROM

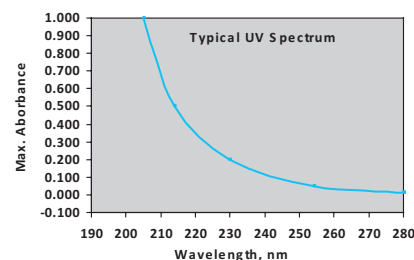
Assay.....98% min.  
 pH (5% soln. @ 20°C).....4.5-5.5

Maximum limit of impurities(%)  
 Cl.....0.005

Pack Size: 500g, 5kg

**Description:** clear liquid, characteristic odour.  
 R.I.....about 1.329  
 Viscosity @ 20°C.....about 0.59cP  
 Assay (GLC).....>99.7%

Maximum limit of impurities(%)  
 Non-vol.....0.001  
 Acidity.....0.03 mmol H  
 $H_2O$  (by K.F.).....0.1



**U.V. Absorbance:**

λ(nm)	205	214	254	280
Max. abs.	1.00	0.50	0.05	0.01

Suggested Applications:  
 Specially purified grade filtered through 0.45 micron filter for HPLC.

Pack Size: 2.5L, 4L

# Spectroscopy Materials

**SPECTROSOL**

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: [www.ajaxfinechem.com/Spectrosol](http://www.ajaxfinechem.com/Spectrosol)

591

## Methanol

SPECTROSOL

**Description:** clear liquid; characteristic odour.  
 Colour (APHA).....10 max.  
 Assay.....99.8% min.

Maximum limit of impurities(%)  
 R.A.E..... 0.001  
 Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test  
 Subs. red. KMnO<sub>4</sub> (as O).....To pass test  
 Water..... 0.1  
 Acetone,aldehydes (as (CH<sub>3</sub>)<sub>2</sub>CO)..... 0.001

Sol.in water.....To pass test  
 Titratable acid..... 0.03 mmol H  
 Titratable base.....0.02 mmol OH

**U.V. Absorbance:**

λ(nm)	205	210	220	230	240	260	280-400
Max. abs.	1.00	0.80	0.40	0.20	0.10	0.04	0.01

Conforms to ACS

Pack Size: 500mL, 2.5L

318

## Methanol

UNIVAR

**Description:** clear liquid with a characteristic odour.  
 Assay.....99.8% min.  
 R.I. @ 20°C.....1.3280 – 1.3300  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)  
 R.A.E..... 0.001  
 Sol. (in H<sub>2</sub>O)..... To pass test  
 Titratable acid..... 0.03 mmol H  
 Titratable base..... 0.02 mmol OH  
 Carbonyl compounds..... 0.003  
 Na..... 0.0001  
 Reaction to KMnO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub> (each).....To pass test  
 Fe..... 0.00002  
 K..... 0.00002  
 Zn..... 0.00002  
 H<sub>2</sub>O..... 0.1  
 Al..... 0.00001

Ba.....	0.000005
Mg.....	0.000005
Cd.....	0.000005
Pb.....	0.000005
Ca.....	0.000005
Cr.....	0.000002
Co.....	0.000002
Cu.....	0.000002
Mn.....	0.000002
Ni.....	0.000002
Sr.....	0.000002

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

723

## Methanol Anhydrous

UNIVAR

**Description:** a clear, hygroscopic liquid with a characteristic odour.  
 Assay.....99.8% min.  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)  
 R.A.E..... 0.001  
 Sol. (in H<sub>2</sub>O)..... To pass test  
 Titratable acid..... 0.03 mmol H  
 Titratable base..... 0.02 mmol OH

Acetone,aldehydes (as (CH<sub>3</sub>)<sub>2</sub>CO)..... 0.005  
 Subs. darkened by H<sub>2</sub>SO<sub>4</sub>.....To pass test  
 Subs. red. KMnO<sub>4</sub> (as O).....To pass test  
 H<sub>2</sub>O..... 0.01

Pack Size: 500mL, 2.5L, 20L

319

## Methanol

UNILAB

Density.....about 0.79g/mL  
 B.R. (95% min.).....63 – 65°C  
 R.I. ....1.328 – 1.329

Maximum limit of impurities(%)  
 Non-vol..... 0.005  
 Acidity..... 0.2 mmol H

Aldehydes & ketones (as (CH<sub>3</sub>)<sub>2</sub>CO)..... 0.02

Pack Size: 500mL, 2.5L, 20L, 200L



**5005 Methanol** HP

Solvent for Histopathology

Pack Size: 10L, 20L

**DL-Methionine**

CAS 59-51-8

**2346 DL-Methionine** LABCHEM

Assay.....99% min.  
 Maximum limit of impurities(%)  
 L.O.D..... 0.5  
 Cl..... 0.05                      SO<sub>4</sub>..... 0.05

Pack Size: 100g, 50kg

- 4-Methoxyaniline (See P-Anisidine Page 65 )
- 3-Methoxyaniline (See M-Anisidine Page 65 )
- 2-Methoxyaniline (See O-Anisidine Page 65 )
- 4-Methoxybenzoic Acid (See P-Anisic Acid Page 64 )
- 4-Methoxybenzaldehyde (See P-Anisaldehyde Page 64 )
- 4-Methoxybenzeneamine (See P-Anisidine Page 65 )

**2-Methoxyethanol**

CAS 109-86-4  
 CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OH = 76.09

U.N Number.....1188  
 ADG Class.....3  
 Packing Group.....III



**737 2-Methoxyethanol** UNIVAR

**Description:** clear liquid. Density about 0.96g/mL  
 Assay.....99% min.  
 Maximum limit of impurities(%)  
 Non-volatile matter..... 0.003  
 Water (K.F)..... 0.2                      Peroxides (as H<sub>2</sub>O<sub>2</sub>)..... 0.003

Pack Size: 500mL, 2.5L, 20L

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
 Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## Methyl Acetate

CAS 79-20-9  
 $\text{CH}_3\text{COOCH}_3 = 74.08$

U.N Number.....1231  
ADG Class.....3  
Packing Group.....II



### 1136 Methyl Acetate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

R.A.E..... 0.003

Water..... 0.1

Pack Size: 500mL, 2.5L

Methyl Acetic Acid (See Propionic Acid Page 370 )

Methyl Alcohol (See Methanol Page 283 )

## Methylamine

CAS 74-89-5  
 $\text{CH}_3\text{NH}_2 = 31.06$

U.N Number.....1235  
ADG Class.....3  
SUB.....8  
Packing Group.....II



### 130 Methylamine

UNILAB

Density.....about 0.90g/mL

Assay.....39 - 42%w/v

Pack Size: 500mL

## Methylamine Hydrochloride

CAS 593-51-1  
 $\text{CH}_6\text{ClN} = 67.52$

### 656 Methylamine Hydrochloride

LABCHEM

Assay ( $\text{HClO}_4$  tit).....99% min.

M.P. ....228 - 231°C

Pack Size: 250g

4-Methylaminophenol Sulphate (See Metol Page 294 )

4-Methylaniline (See P-Toluidine Page 456 )

## N-Methylaniline

CAS 100-61-8

Synonyms: Mono methylaniline

 $C_7H_9N = 107.16$ 

U.N Number.....2294

ADG Class.....6.1

Packing Group.....III



### 3075 N-Methylaniline

LABCHEM

Assay.....&gt;98%

Density @ 20°C.....0.982 – 0.987

R.I. ....1.5705 – 1.5715

Pack Size: 500 mL

Methyl Benzene (See Toluene Page 454 )

## Methyl Benzoate

CAS 93-58-3

 $C_6H_5COOCH_3 = 136.15$ 

### 2305 Methyl Benzoate

UNILAB

Density.....about 1.08g/mL

R.I.....approx 1.517

Assay (GC).....99% min.

B.R. ....197 – 199°C

Maximum limit of impurities(%)

Water,(KF)..... 0.1

Sulphated ash. .... 0.05

Free acid (as  $C_6H_5COOH$ )..... 0.2

Pack Size: 500mL

Methyl Benzol (See Toluene Page 454 )

## Methyl Blue (CI 42780)

CAS 28983-56-4

### 3236 Methyl Blue (CI 42780)

OP

Stain for microscopy. Pack Size: 25gStain for microscopy.

Pack Size: 25g

# Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## 2-Methylbutan-2-ol

CAS 75-85-4  
 $C_2H_5C(CH_3)_2OH = 88.15$

U.N Number.....1105  
 ADG Class.....3  
 Packing Group.....II



### 1306 2-Methylbutan-2-ol

UNILAB

Assay (GC).....99.0% min.

Maximum limit of impurities(%)

R.A.E.....0.004

Water (K.F.).....0.5

Pack Size: 500mL, 2.5L

### 3-Methyl-1-Butanol (See Iso-Amyl Alcohol Page 62 )

### 3-Methyl-1-Butyl Acetate (See Iso-Amyl Acetate Page 62 )

## Methyl Green

CAS 7114-03-6  
 $C_{27}H_{35}BrClN_3.ZnCl_2 = 653.24$

U.N Number.....3147  
 ADG Class.....8  
 Packing Group.....III



### 3351 Methyl Green For microscopical staining C.I. 42590

LABCHEM

Dye content .....85% min.

By titanometry.....630 – 635nm

Pack Size: 10g, 25g

### 5-Methyl-2-Hexanone (See Methyl Isoamyl Ketone Page 289 )

# Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



### Summary of Ampoules available

#### Cat-No Description

**1366** Hydrochloric Acid 0.1M  
**1395** Oxalic Acid 0.05M  
**1373** Sulphuric Acid 0.05M  
**1398** Ammonium Thiocyanate 0.1M

#### Cat-No Description

**1376** Silver Nitrate 0.1M  
**1377** EDTA 0.1M  
**1396** Iodine 0.01M  
**1359** Potassium Dichromate 1/60M

#### Cat-No Description

**1378** Potassium Hydroxide 0.1M  
**1361** Potassium Permanganate 0.02M  
**1386** Sodium Hydroxide 0.1M  
**1388** Sodium Thioulphate 0.1M

## Methyl 4-Hydroxybenzoate

CAS 99-76-3  
 $\text{HOC}_6\text{H}_4\text{COOCH}_3 = 152.15$

### 327 Methyl 4-Hydroxybenzoate

UNILAB

Colourless crystals or a white, crystalline powder.

Assay.....98.0 – 102.0%  
 M.P. ....125 – 128°C  
 L.O.D. ....0.5% max

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test  
 Sulph. ash..... 0.1

Acidity......5 mmol H  
 Related substances..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

Methyl Icinol (See 2-Methoxyethanol Page 285 )

Methyl Iodide (See Iodomethane Page 240 )

Methyl Isobutyl Ketone (See 4- Methylpentan-2-One Page 293 )

## Methyl Isoamyl Ketone

CAS 110-12-3  
 $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{COCH}_3 = 114.19$

U.N Number.....2302  
 ADG Class.....3  
 Packing Group.....III



### 1337 Methyl Isoamyl Ketone

UNILAB

Assay.....99.0% min.  
 Colour (APHA).....10

Maximum limit of impurities(%)

Water..... 0.05

Pack size: 500mL

## Methyl Methacrylate

CAS 80-62-6  
 $\text{C}_5\text{H}_8\text{O}_2 = 100.12$

U.N Number.....1247  
 ADG Class.....3  
 Packing Group.....II



### 3240 Methyl Methacrylate

OP

Density.....about 0.94 g/mL  
 Assay(GLC).....99% min.  
 Boiling point.....99-102°C

Pack Size: 1L

1-Methyl-4Nitrobenzene (See 4-Nitrotoluene Page 313 )

## Methyl Orange Screened

CAS 547-58-0

U.N Number.....3143

ADG Class.....6.1

Packing Group.....III



### 470 Methyl Orange Screened

LABCHEM

Mixed pH indicator

Pack Size: 25g

## Methyl Orange Sodium Salt (CI 13025)

CAS 547-58-0

$C_{14}H_{14}N_3SO_3Na = 327.34$

U.N Number.....3143

ADG Class.....6.1

Packing Group.....III



### 725 Methyl Orange Sodium Salt (CI 13025)

LABCHEM

pH indicator

Clarity of solution.....To pass test

Visual Transition Interval.....pH 3.2 (red) to pH 4.4 (yellow)

Maximum limit of impurities(%)

Insol. (in  $H_2O$ )..... To pass test

Conforms to ACS

Pack Size: 25g, 100g, 1kg

## Methyl Orange Solution

CAS 547-58-0

$C_{14}H_{14}N_3SO_3Na = 327.34$

U.N Number.....1602

ADG Class.....6.1

Packing Group.....II



### 753 Methyl Orange Solution

LABCHEM

pH indicator: 0.05% aqueous solution.

pH 3.0 : Red

pH 3.2: Reddish – orange

pH 4.4: Yellow

Pack Size: 100mL

Methyl Oxitol (See 2-Methoxyethanol Page 285 )

Methyl Phenyl Ketone (See Acetophenone Page 26 )

Methyl P-Hydroxybenzoate (See Methyl 4-Hydroxybenzoate Page 289 )

## Methyl Red Sodium Salt (CI 13020)

CAS 845-10-3  
 $C_{15}H_{14}N_3NaO_2 = 291.29$

### 609 Methyl Red Sodium Salt (CI 13020)

LABCHEM

pH and redox indicator.

Maximum limit of impurities(%)

Insol. (in alc.) ..... To pass test

Insol. (in H<sub>2</sub>O).....To pass test

Pack Size: 10g, 100g

## Methyl Red Solution

U.N Number.....1993

ADG Class.....3

Packing Group.....III



### 610 Methyl Red Solution

LABCHEM

pH indicator.

0.1% aqueous solution.

Pack Size: 100mL

## Methyl Salicylate

CAS 119-36-8  
 $HOC_6H_4COOCH_3 = 152.15$

### 1138 Methyl Salicylate

UNILAB

Colourless or pale yellow liquid; odour strong, persistent, characteristic and aromatic.

Assay.....99.0 - 100.5%

Relative density.....1.180 – 1.186 g/mL

R.I .....1.535 – 1.538

Maximum limit of impurities(%)

Acidity .....To pass test

Clarity and colour of soln..... To pass test

Chemical and physical parameters conform to BP

Pack Size: 500mL, 2.5L

**Methyl Sulphide** (See Dimethyl Sulphide Page 183 )

**Methyl Sulphoxide** (See Dimethyl Sulphoxide Page 183 )

## Methylthymol Blue

CAS 1945-77-3  
 $C_{37}H_{41}N_2O_{13}SNa_3 = 822.78$

### 2474 Methylthymol Blue

LABCHEM

Metal indicator.

Pack Size: 1g

## Methyl Violet 6B (CI 42535)

CAS 8004-87-3

### 3241 Methyl Violet 6B (CI 42535)

OP

Stain for microscopy.

Pack Size: 25g

## Methylated Spirits

CAS 64-17-5

U.N Number.....1170

ADG Class.....3

Packing Group.....II



### 4546 Denatured Absolute Alcohol F3

LABCHEM

Pack Size: 2.5L, 20L, 200L

### 2512 Methylated Spirit 95%

LABCHEM

Ethanol approx. ....95%

Density.....about 0.806g/mL

Pack Size: 12x500mL, 2.5L, 20L

### 5591 Methylated Spirit 95SGF3 (SMS)

LABCHEM

Weight per ml: Maximum:.....0.810g

This material is denatured with meth:.....2.0+-0.2%

Acidity:.....0.05ml N%

Non-volatile matter:.....0.005%

Pack Size: 2.5L, 20L, 200L

### 5111 Methylated Spirits 95% IMS, HP

LABCHEM

Pack Size: 10L, 20L

### 2514 Methylated Spirit 70% v/v Special, Green

LABCHEM

Pack Size: 12x500mL

## Methylene Blue

CAS 61-73-4

$C_{16}H_{18}N_3ClS \cdot 2H_2O = 355.89$

### 1137 Methylene Blue (C.I.52015)

UNILAB

Reagent for Mo. Redox indicator.

Pure dye content 82% min. Transition EMF (@ pH=0) +0.53V

Transition EMF (@ pH=7) +0.01V

Colour change: Oxidized (blue) to reduced (colourless)

Pack Size: 25g, 100g, 500g



**1838** **Methylene blue solution** LABCHEM

1% Aqueous stain solution

Pack Size: 1L, 5L

**Methylene Chloride** (See Dichloromethane Page 171 )

**4-Methylpentan-2-One**

CAS 108-10-1  
(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>COCH<sub>3</sub> = 100.16

U.N Number.....1245  
ADG Class.....3  
Packing Group.....II



**2219** **4-Methylpentan-2-One** UNIVAR

**Description:** clear liquid with a characteristic odour.  
Assay (by GLC).....99.0% min.  
Colour (APHA).....15 max.

Maximum limit of impurities(%)  
R.A.E..... 0.001  
Titratable acid..... 0.2 mmol H  
H<sub>2</sub>O..... 0.1

Pack Size: 500mL, 2.5L, 20L

**120** **4-Methylpentan-2-One** UNILAB

Density.....about 0.80g/mL  
Assay.....99% min.  
B.R. (95% min.).....114 – 117°C

Maximum limit of impurities(%)  
Non-vol..... 0.005  
Acidity..... 2 mmol H

Pack Size: 2.5L, 20L

**3-Methylphenol** (See m-Cresol Page 159 )

**4-Methylphenol** (See p-Cresol Page 159 )

**2-Methylpropan-1-ol**

CAS 78-83-1  
(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH = 74.12

U.N Number.....1212  
ADG Class.....3  
Packing Group.....III



**110** **2-Methylpropan-1-ol** UNIVAR

**Description:** clear liquid with a characteristic odour.  
Assay (GLC).....99.0% min.  
B.R.....(100% ) 15°C  
Incl.....107.9 +/- 0.1°C  
Colour (APHA).....10 max.  
R.I.....1.395 – 1.396

Maximum limit of impurities(%)  
R.A.E..... 0.001  
Sol. (in H<sub>2</sub>O).....To pass test  
Titratable acid.....0.0005 meq/g  
H<sub>2</sub>O..... 0.1

Pack Size: 2.5L

## 111 2-Methylpropan-1-ol UNILAB

Density.....about 0.80g/mL  
B.R. (95% min.).....106 - 108°C

Maximum limit of impurities(%)  
Non-vol..... 0.005                      H<sub>2</sub>O..... 0.25

Pack Size: 500mL

## 2-Methylpropan-2-ol

CAS 75-65-0  
(CH<sub>3</sub>)<sub>3</sub>COH = 74.12

U.N Number.....1120  
ADG Class.....3  
Packing Group.....II



## 16 2-Methylpropan-2-ol UNIVAR

Description: clear liquid. Solid or semi-solid at room temperature

M.P. ....25.0 – 25.5°C  
Assay (GC).....99.5%min

Maximum limit of impurities(%)  
Non-vol..... 0.001                      H<sub>2</sub>O..... 0.05

Pack Size: 500mL, 2.5L

## 113 2-Methylpropan-2-ol UNILAB

B.R. (95% min.).....81-83 °C  
M.P. ....24.0 – 26.0 °C

Maximum limit of impurities(%)  
Non-vol..... 0.01                      H<sub>2</sub>O..... 0.2

Pack Size: 500mL, 2.5L, 20L, 200L

## Metol

CAS 55-55-0  
C<sub>14</sub>H<sub>20</sub>N<sub>2</sub>O<sub>6</sub>S = 344.39

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



## 1139 Metol LABCHEM

Assay.....99% min.

Pack Size: 100g, 500g

Milk Sugar (See Lactose Page 248 )

Mirbane Oil (See Nitrobenzene Page 311 )

## Molecular Sieve

### 1467 Molecular Sieve, Type 3A, 1.5 – 2.5mm LABCHEM

Absorbent, for moisture removal.

Pack Size: 500g, 25Kg

### 1461 Molecular Sieve Type 4A, 2.5-5.0mm LABCHEM

Absorbent for moisture, ethanol, ammonia etc. removal.

Pack Size: 500g

### 1462 Molecular Sieve Type 5A, 1.6-2.5mm LABCHEM

Absorbent, for removal of moisture, R12; larger molecules.

Pack Size: 500g

## Molybdenum 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



### 2643 Molybdenum 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Molybdenum standard, ready for use.  
Mo in 8% Hydrochloric acid.

Pack Size: 100mL

## Molybdenum AAS Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



### 2619 Molybdenum AAS Standard SPECTROSOL

A 1000 ppm Molybdenum standard, ready for use.  
Mo in 8% Hydrochloric acid.

Traceable to NIST

Pack Size: 500mL

# Spectroscopy Materials

**SPECTROSOL**

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: [www.ajaxfinechem.com/Spectrosol](http://www.ajaxfinechem.com/Spectrosol)

## Molybdenum Trioxide

CAS 1313-27-5  
MoO<sub>3</sub> = 143.94

### 332 Molybdenum Trioxide UNIVAR

Description: pale yellow-green or grey crystalline powder.  
Assay.....99.5% min.

Maximum limit of impurities(%)

Insol. (in NH <sub>4</sub> OH).....	0.01	AsO <sub>4</sub> , PO <sub>4</sub> , SiO <sub>3</sub> (as SiO <sub>2</sub> ).....	0.002
Cl.....	0.002	SO <sub>4</sub> .....	0.02
NO <sub>3</sub> .....	0.003	H.M. (as Pb).....	0.005
PO <sub>4</sub> .....	0.0005	NH <sub>4</sub> .....	0.002

Pack Size: 100g, 500g

### 1379 Molybdenum Trioxide UNILAB

Description: pale yellow-green or grey crystalline powder.  
Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	H.M. (as Pb).....	0.005
PO <sub>4</sub> .....	0.005		

Pack Size: 500g

## Molybdic Acid

CAS 11099-00-6

### 330 Molybdic Acid UNIVAR

Description: white to off-white crystalline powder,  
containing ammonium molybdate.  
Assay(as MoO<sub>3</sub>).....85.0% min.

Maximum limit of impurities(%)

Insol. (in NH <sub>4</sub> OH).....	0.01	PO <sub>4</sub> .....	0.001
Cl.....	0.002	SiO <sub>3</sub> (as SiO <sub>2</sub> ).....	0.001
PO <sub>4</sub> .....	0.0005	SO <sub>4</sub> .....	0.2
AsO <sub>4</sub> .....	0.001	H.M. (as Pb).....	0.003

Conforms to ACS

Pack Size: 500g

### 331 Molybdic Acid UNILAB

Contains ammonium molybdate.  
Assay(as MoO<sub>3</sub>).....85% min.

Maximum limit of impurities(%)

PO <sub>4</sub> .....	0.005
-----------------------	-------

Pack Size: 500g

Molybdic Acid Anhydride (See Molybdenum Trioxide Page 296 )

## Dodeca-Molybdophosphoric Acid

CAS 12026-57-2  
Approx.  $12\text{MoO}_3 \cdot \text{H}_3\text{PO}_4 \cdot 24\text{H}_2\text{O} = 22576$

U.N Number.....1759  
ADG Class.....8  
Packing Group.....III



### 333 Dodeca-Molybdophosphoric Acid

UNIVAR

**Description:** yellow crystals or crystalline powder.

Maximum limit of impurities(%)

Insol.....	0.01		
Cl.....	0.02	Fe.....	0.002
SO <sub>4</sub> .....	0.025	NH <sub>4</sub> .....	0.01
Ca.....	0.02	HM (as Pb).....	0.005

Conforms to ACS

Pack Size: 100g

### 1140 Dodeca-Molybdophosphoric Acid

UNILAB

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.04		
NH <sub>4</sub> .....	0.02	Ca.....	0.04

Pack Size: 100g

**Monobromobenzene** (See Bromobenzene Page 98 )

**Monochlorobenzene** (See Chlorobenzene Page 136 )

**Monochlorobenzol** (See Chlorobenzene Page 136 )

**Monoethanolamine** (See Ethanolamine Page 195 )

**Monomethylamine** (See Methylamine Aqueous Soln Page 286 )

**Mono Methylaniline** (See N-Methylaniline Page 287 )

**Mordant Black 11** (See Eriochrome Black T Page 191 )

**Mordant Black 17, Calcon** (See Eriochrome Blue Black R Page 191 )

# Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Morpholine

CAS 110-91-8  
 $C_4H_{10}ON = 87.12$

U.N Number.....2054  
ADG Class.....8  
SUB.....3  
Packing Group.....I



### 1141 Morpholine

UNILAB

Density.....about 1.0g/mL  
Assay.....99% min.  
B.R. (95% min.).....125 - 130°C

Maximum limit of impurities(%)  
Non-vol..... 0.005

Pack Size: 500ML

## Mountant, Fast Drying

U.N Number.....1866  
ADG Class.....3  
Packing Group.....III



### 1840 Mountant, Fast Drying

LABCHEM

Pack Size: 100mL, 500mL

## Murexide (CI 56085)

CAS 3051-09-0  
 $C_8H_8N_6O_6 = 284.19$

### 55 Murexide (CI 56085)

LABCHEM

Metal indicator.

Pack Size: 10g

Muriatic Acid (See Hydrochloric Acid Page 229)

## Naphthalene, Pure Chip

CAS 91-20-3  
 $C_{10}H_8 = 128.17$

U.N Number.....1334  
ADG Class.....4.1  
Packing Group.....III



### 334 Naphthalene, Pure Chip

Technical

Pack Size: 500g

1-Naphthalenol (See 1-Naphthol Page 299 )

2-Naphthalenol (See 2-Naphthol Page 299 )

## 1-Naphthol

CAS 90-15-3  
C<sub>10</sub>H<sub>7</sub>OH = 144.17

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 1142 1-Naphthol

UNIVAR

**Description:** white to light pink crystals or crystalline powder.

Assay.....99% min.  
M.P. ....94-97°C

Maximum limit of impurities(%)

Water (Karl Fischer)..... 0.2  
Sulph. ash..... 0.05  
Fe..... 0.001  
Cl..... 0.005

H.M. (as Pb)..... 0.001  
Naphthalene(GC)..... 0.2  
2-Naphthol (GC)..... 0.5

Pack Size: 100g

## 2-Naphthol

CAS 135-19-3  
C<sub>10</sub>H<sub>7</sub>OH = 144.17

### 1143 2-Naphthol

UNIVAR

**Description:** white to light pink crystals or crystalline powder.

Assay.....99.0% min.  
MP.....120 - 124°C

Pack Size: 100g

## Naphthol Green B (C.I. 10020)

CAS 19381-50-1  
C<sub>30</sub>H<sub>15</sub>FeN<sub>3</sub>Na<sub>3</sub>O<sub>15</sub>S<sub>3</sub> = 878.5

### 2747 Naphthol Green B (C.I. 10020)

LABCHEM

**Description:** Yellowish green coloured powder  
pH(1% Aqueous soln. @ 25°C).....8.9 – 9.3

Pack size: 50g

## 1-Naphtholbenzein (pH Indicator)

CAS 145-50-6  
C<sub>27</sub>H<sub>18</sub>O<sub>2</sub> = 374.44

### 2358 1-Naphtholbenzein (pH Indicator) (Used as an indicator in 0 – 1.0 in 100ml 2-Propanol) LABCHEM

pH 8.5 – 9.8.....Yellow to green

Pack Size: 5g

## 1-Naphtholphthalien

CAS 596-01-0  
 $C_{28}H_{18}O_4 = 418.45$

### 3114 1-Naphtholphthalien

LABCHEM

pH 7.1 – 8.3.....Brownish pink to blue

Maximum limit of impurities(%)

L.O.D. @ 105°C.....2

Pack Size: 1g

## 1,2-Naphthoquinone-4-Sulfonic Acid Sodium Salt

CAS 521-24-4  
Synonyms: 1,2-Naphthoquinone-4-Sulphate  
 $C_{10}H_5NaO_3S = 260.20$

### 3076 1,2-Naphthoquinone-4-Sulfonic Acid Sodium Salt (For determination of amines and amino acid)

LABCHEM

Assay.....99% Min.

Maximum limit of impurities(%)

SO<sub>4</sub>.....0.05

Total N.....0.05

L.O.D. @ 105°C.....1%

Solubility for detection of..... To pass test amino acid

Pack Size: 5g, 25g

1,2-Naphthoquinone-4-Sulphate (See 1,2-Naphthoquinone-4-Sulphonic Acid Page 300 )

## 1-Naphthyl Acetate

CAS 830-81-9  
 $C_{12}H_{10}O_2 = 186.21$

### 244 1-Naphthyl Acetate (Naphthol free substrate for esterase assay, store in refrigerator )

LABCHEM

Assay.....99.5% Min.

M.P.....44 – 49°C

1 Naphthalene.....0.1%

Pack Size: 25g

## 1-Naphthylacetic Acid

CAS 86-87-3  
 $C_{10}H_7CH_2COOH = 186.21$



766

**1-Naphthylacetic Acid**

LABCHEM

Assay.....96% min.  
 M.P. ....129-132°C

Maximum limit of impurities(%)  
 2-Naphthylactic Acid. .... 3.0

Pack Size: 25g

**N-(1-Naphthyl)Ethylenediamine, Dihydrochloride**

CAS 1465-25-4

 $(C_{10}H_7NH_2CH_2CH_2NH_3)Cl_2 = 259.18$ 

3077

**N-(1-Naphthyl)Ethylenediamine, Dihydrochloride**

LABCHEM

Assay (ex N).....99% min.

Maximum limit of impurities(%)  
 Sulph.ash..... 0.2  
 Suitability for detection of Sulphonamides. .... To pass test

Pack Size: 10g

**Natural Red 4** (See Carminic Acid Page 129 )

**Natural Red 28** (See Orcein Page 316 )

**Natural Yellow 3** (See Curcumin Page 161 )

**Neocuproine Hydrochloride Hydrate**

CAS 41066-08-4

**Synonym:** 2,9 Dimethyl-1-10-Phenanthroline hydrochloride hydrate

$C_{14}H_{13}ClN_2 = 244.73$  (anhydrous basis)

1030

**Neocuproine Hydrochloride Hydrate** (Clinical reagent for automatic determination of blood glucose, reagent for copper)

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)  
 Sulphated ash. .... 0.1

Pack Size: 1g

## Neomycin Sulphate

CAS 1405-10-3

**3432** Neomycin Sulphate For Bacteriology Activity per mg 670 IU (Keep in refrigerator) *LABCHEM*

pH ( 5% soln).....5.0 – 8.0

Pack Size: 25g

Neothorone (See Arsenazo I Page 70 )

## Nessler's Reagent

U.N Number.....3287  
ADG Class.....6.1  
Packing Group.....III



**668** Nessler's Reagent *LABCHEM*

For the detection of ammonium salts.  
Potassium mercury (II) iodide solution.

SG.....1.15g/mL.

Pack Size: 500mL

## Neutral Buffered Formalin

**2518** Neutral Buffered Formalin *LABCHEM*

A micro anatomical fixative for preservation of specimens.

Appearance: Clear (APHA).....10 max.

Formaldehyde.....3.9 – 6.0% w/v

pH.....(@ 25°C) 6.8 – 7.2

Pack Size: 500mL, 5L, 20L

**2653** Neutral Buffered Formalin, Self Indicating *LABCHEM*

A micro anatomical fixative for preservation of specimens, tinted pale purple. Change the solution if colour is yellow, which indicates an acidic, inactive fixative.

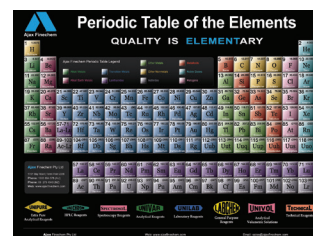
Formaldehyde Content.....3.9-4.2% w/v

pH@ 25°C.....6.8 – 7.2

Pack Size: 6X2.5L, 20L

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Neutral Red (CI 50040)

CAS 553-24-2  
 $C_{15}H_{17}ClN_4 = 288.78$

### 2355 Neutral Red (CI 50040)

LABCHEM

Adsorption, pH and redox indicator.  
 Visual Transition Interval: pH 6.8 (red) to pH 8.0 (yellow)

Transition EMF (@ pH=0).....+0.24V  
 Transition EMF (@ pH=7).....-0.29V  
 Colour change: Oxidised (purple) to reduced (colourless)

Pack Size: 25g

### 1841 Neutral Red Solution

LABCHEM

1% aqueous solution

Pack Size: 1L, 5L

## Nickel 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2644 Nickel 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Nickel standard, ready for use.  
 Ni in 0.5% Nitric acid.

Pack Size: 100mL

## Nickel AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2635 Nickel AAS Standard

SPECTROSOL

A 1000 ppm nickel standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ni in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)

## Nickel Fine Powder

CAS 7440-02-0  
Ni = 58.71

U.N Number.....3089  
ADG Class.....4.1  
Packing Group.....II



### 3080 Nickel Fine Powder

LABCHEM

Assay.....99.8% min.

Maximum limit of impurities(%)

Fe..... 0.01  
S..... 0.001

C..... 0.08  
O..... 0.15

Pack Size: 100g

## Nickel Acetate

CAS 373-02-4  
(CH<sub>3</sub>COO)<sub>2</sub>Ni.4H<sub>2</sub>O = 248.86

### 1504 Nickel Acetate

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

Cl..... 0.01  
SO<sub>4</sub>..... 0.05

Fe..... 0.01  
Co..... 0.1

Pack Size: 500g

**Nickel Ammonium Sulphate** (See Ammonium Nickel Sulphate Page 57 )

## Nickel Carbonate

CAS 3333-67-3  
Approx. NiCO<sub>3</sub>.2Ni(OH)<sub>2</sub>.4H<sub>2</sub>O

### 338 Nickel Carbonate

UNILAB

Assay(Ni).....44.0 - 50.0%

Maximum limit of impurities(%)

Cl..... 0.02  
Co..... 0.1

Fe..... 0.01

Pack Size: 500g, 10kg

# Silica Gel - Self Indicating Orange

Orange Silica Gel is:

- <> Safe for the user
- <> Safe for the environment

- <> Non-Hazardous
- <> Harmless

**Cat-No**    **Pack Size**  
**8745**      500g, 1kg, 3kg, 5kg, 25kg

## Nickel Chloride

CAS 7718-54-9  
 $\text{NiCl}_2 \cdot 6\text{H}_2\text{O} = 237.71$

U.N Number.....3288  
 ADG Class.....6.1  
 Packing Group.....III



829

### Nickel Chloride

UNIVAR

**Description:** green crystals or crystalline powder.

Assay.....99% min.  
 pH (5% soln.) .....3.5 min.

Maximum limit of impurities(%)

Insolubles.....	0.005	Cu.....	0.005
SO <sub>4</sub> .....	0.02	Fe.....	0.002
Zn.....	0.005	Na.....	0.005
Ca.....	0.005	Pb.....	0.003
Cd.....	0.002	K.....	0.01
Co.....	0.005		

Pack Size: 500g

830

### Nickel Chloride

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.02	Fe.....	0.02
-----------------------	------	---------	------

Product solidifies on storage.

Pack Size: 500g

## Nickel Nitrate

CAS 13138-45-9  
 $\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O} = 290.81$

U.N Number.....2725  
 ADG Class.....5.1  
 Packing Group.....III



1144

### Nickel Nitrate

UNIVAR

**Description:** green crystals or crystalline powder.

Assay.....98.0% min.  
 pH (5% soln.).....3.5 min.

Maximum limit of impurities(%)

Insol.....	0.003	Pb.....	0.002
Cl.....	0.001	Cu.....	0.002
SO <sub>4</sub> .....	0.005	Fe.....	0.0005
Ca.....	0.02	K.....	0.005
Cd.....	0.002	Na.....	0.01

Pack Size: 500g

**339** **Nickel Nitrate** UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	Fe.....	0.05
SO <sub>4</sub> .....	0.1	Pb.....	0.05

Pack Size: 500g

**Nickel oxide**

**340** **Nickel Oxide Green** UNILAB

Assay (Ni).....70% min.

Maximum limit of impurities(%)

Fe.....	0.01	H.M. (as Pb).....	0.02
SO <sub>4</sub> .....	0.3	Insoluble (HCl).....	0.05

Pack Size: 500g

**Nickel Sulphate**

CAS 7786-81-4  
NiSO<sub>4</sub>·6H<sub>2</sub>O = 262.86

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



**831** **Nickel Sulphate** UNIVAR

**Description:** Green crystals or crystalline powder.

Assay.....99 min.

pH (5%) .....4-6

Maximum limit of impurities(%)

Insol.....	0.005	Pb.....	0.003
Cl.....	0.001	Ca.....	0.005
N cpds. (as N).....	0.002	Cu.....	0.002
Co.....	0.002	K.....	0.005
Mn.....	0.0005	Mg.....	0.005
Fe.....	0.001	Na.....	0.01

Conforms to ACS

Pack Size: 500g

**832** **Nickel Sulphate** UNILAB

Assay.....96.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	Fe.....	0.005
---------	------	---------	-------

Pack Size: 500g

## Nicotinic Acid

CAS 59-67-6  
 $C_5H_4NCOOH = 123.11$

### 2369 Nicotinic Acid UNILAB

Assay(after drying).....99.0% min.  
 M.P. ....234-237°C

Maximum limit of impurities(%)

Sulph. ash..... 0.1  
 Pb..... 0.001                      H<sub>2</sub>O..... 0.5

Pack Size: 100g

## Nigrosine (C.I. 50420)

CAS 8005-03-6

### 3243 Nigrosine (C.I. 50420) LABCHEM

Description: Blackish blue crystalline powder

Pack size: 25g, 100g

## Nile Blue Chloride For Microscopy C. I. 51180

CAS 2381-85-3  
 $C_{20}H_{20}ClN_3O = 353.85$

### 3238 Nile Blue Chloride For Microscopy C. I. 51180 LABCHEM

Absorption.....638nm max.  
 Dye Content.....90% min.

Pack Size: 25g

## Ninhydrin

CAS 485-47-2  
 $C_9H_4O_3 \cdot H_2O = 178.14$

### 801 Ninhydrin UNIVAR

Reagent for amino acids.

Description: White to brownish-white crystals or crystalline powder.

Identification and M.P. To pass test

Maximum limit of impurities(%)

Sol. (in H<sub>2</sub>O). .... To pass test                      Sensitivity to amino acids. ....To pass test

Conforms to ACS

Pack Size: 5g, 25g, 500g

## Nitric Acid

CAS 7697-37-2  
HNO<sub>3</sub> = 63.01

U.N Number.....2031  
ADG Class.....8  
Packing Group.....II



### 1404 Nitric Acid, Extra Pure

UNIPURE

Assay.....67 - 70%

Maximum limit of impurities (ppb)

Al.....	1	Mn.....	1
Sb.....	1	Hg.....	1
As.....	1	Mo.....	1
Ba.....	1	Ni.....	1
Be.....	1	K.....	1
Bi.....	1	Se.....	1
B.....	1	Ag.....	1
Cd.....	1	Na.....	1
Ca.....	1	Sr.....	1
Cr.....	1	Th.....	1
Co.....	1	Sn.....	1
Cu.....	1	Ti.....	1
Fe.....	1	U.....	1
Pb.....	1	V.....	1
Li.....	1	Zn.....	1
Mg.....	1	Zr.....	1

Pack size: 500mL, 2.5L

### 341 Nitric Acid 70%

UNIVAR

**Description:** colourless liquid, free from suspended matter or sediment. May darken during storage due to a photochemical reaction.

Density.....about 1.42g/mL  
Assay.....68.0 - 70.0% w/w  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.I.....	0.0005	Mn.....	0.000001
Cl.....	0.00005	Sr.....	0.000002
SO <sub>4</sub> .....	0.0001	Mo.....	0.000002
PO <sub>4</sub> .....	0.00005	Cu.....	0.000002
SiO <sub>2</sub> .....	0.00005	Cd.....	0.000002
Al.....	0.00001	Ba.....	0.000005
Zn.....	0.00001	Cr.....	0.000005
K.....	0.00002	Pb.....	0.000005
Mg.....	0.00002	Ni.....	0.000005
Fe.....	0.00002	Ca.....	0.0001
As.....	0.000001	Na.....	0.0003
Co.....	0.000001	Heavy metals(as Pb).....	0.00002

Conforms to ACS

Pack Size: 500mL, 2.5L, 15L, 200L

### 937 Nitric Acid 70%

LABCHEM

Assay.....67.0% w/w min.

Maximum limit of impurities(%)

Cl.....	0.001	Heavy metals(as Pb).....	0.001
SO <sub>4</sub> .....	0.001		

Pack Size: 500mL, 2.5L GL, 2.5L PL



**1380 Nitric Acid 70% W/W** TECHNICAL

Density.....about 1.42g/mL  
 Appearance: Colourless to straw.  
 Assay.....69 - 71% w/w

Pack Size: 2.5L

**Nitrilotriacetic Acid**

CAS 139-13-9  
 $N(CH_2COOH)_3 = 191.14$

**342 Nitrilotriacetic Acid** UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.07                      L.O.D..... 0.5

Pack Size: 100g

**2-Nitroaniline**

CAS 88-74-4  
 $C_6H_6N_2O_2 = 138.12$

U.N Number.....1661  
 ADG Class.....6.1  
 Packing Group.....II

**343 2-Nitroaniline** UNILAB

Assay.....98% min.  
 M.P. ....68 – 71°C

Pack Size: 250g

**3-Nitroaniline**

CAS 99-09-2  
 $C_6H_6N_2O_2 = 138.12$

U.N Number.....1661  
 ADG Class.....6.1  
 Packing Group.....II

**3081 3-Nitroaniline** UNILAB

Assay.....99% min.  
 M.P. ....109 – 112°C

Pack Size: 250g

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
 Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## 4-Nitroaniline

CAS 100-01-6  
 $C_6H_6N_2O_2 = 138.12$

U.N Number.....1661  
ADG Class.....6.1  
Packing Group.....II



### 344 4-Nitroaniline

UNILAB

Assay.....98.5% min.  
M.P. ....146 – 149°C

Maximum limit of impurities(%)  
Sulphated ash..... 0.05

Pack Size: 250g

## 2-Nitrobenzaldehyde

CAS 552-89-6  
 $C_7H_5NO_3 = 151.12$

### 3082 2-Nitrobenzaldehyde (Fluorometric reagent for PCA formed by L-Amino acid oxidase, reagent for methyl ketones)

UNIVAR

Assay (hydroxylamine titration).....99% min.  
M.P. ....41 – 43°C

Maximum limit of impurities(%)  
H.M. (as Pb)..... 0.001  
Fe..... 0.0005

Sulphated ash..... 0.1

Pack Size: 10g

## 4-Nitrobenzaldehyde

CAS 555-16-8  
 $C_7H_5NO_3 = 151.12$

### 3083 4-Nitrobenzaldehyde (for colorimetric determination of aminosugars)

UNIVAR

EC No. ....209-084-5  
Assay (HPLC).....≥ 99.0%  
M.P. ....104 – 106°C

Maximum limit of impurities(%)  
Ignition residue..... 0.05

Pack Size: 25g

# HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)

## Nitrobenzene

CAS 98-95-3  
 $C_6H_5NO_2 = 123.11$

U.N Number.....1662  
 ADG Class.....6.1  
 Packing Group.....II



345

### Nitrobenzene

UNIVAR

**Description:** pale yellow liquid with a characteristic odour.

R.I .....about 1.553  
 Assay.....99.0% min.

Maximum limit of impurities(%)

R.A.E..... 0.005  
 Water-sol. titratable acid.....0.0005 meq/g

Cl..... 0.0005

Conforms to ACS

Pack Size: 500mL, 2.5L

346

### Nitrobenzene

UNILAB

Density.....about 1.2g/mL  
 Assay.....99.0% min.

Maximum limit of impurities(%)

Free Acid ( $HNO_3$ )..... 0.005

Pack Size: 2.5L

**Nitrobenzol** (See Nitrobenzene Page 311 )

**Nitro Blue Tetrazolium Chloride** (See Nitro B.T. Page 311 )

## Nitro B.T.

CAS 298-83-9

Synonyms: Nitro blue tetrazolium chloride

$C_{40}H_{30}N_{10}O_6Cl_2 = 817.65$

2344

**Nitro B.T.** (Used for estimating dehydrogenase enzymes. totally soluble formazan free)

LABCHEM

Absorption maxima in methanol.....256 – 259nm  
 Spec. Absorptivity.....800 - 900  
 (A 1%/1cmlambdamax;.....0.001%  
 methanol; calc. on dried substance)

Maximum limit of impurities(%)

L.O.D. @ 110°C..... <10

Suitability for microscopy..... to pass test

Pack Size: 1g

**Nitrocarbol** (See Nitromethane Page 312 )

## Nitromethane

CAS 75-52-5  
 $\text{CH}_3\text{NO}_2 = 61.04$

U.N Number.....1261  
ADG Class.....3  
Packing Group.....II



### 712 Nitromethane

UNILAB

R.I.....about 1.382  
B.R.(95% min.).....98-100 °C  
Density.....1.13 – 1.14 g/mL  
Assay (GC).....99% min.

Pack Size: 500mL

## 2-Nitrophenol

CAS 88-75-5  
 $\text{C}_6\text{H}_5\text{NO}_3 = 139.11$

U.N Number.....1663  
ADG Class.....6.1  
Packing Group.....III



### 3085 2-Nitrophenol

LABCHEM

Assay.....99% min.  
M.P. ....43 – 45°C

Pack Size: 500g

## 3-Nitrophenol Indicator

CAS 554-84-7  
 $\text{C}_6\text{H}_5\text{NO}_3 = 139.11$

U.N Number.....1663  
ADG Class.....6.1  
Packing Group.....III



### 1148 3-Nitrophenol Indicator

UNILAB

Assay (acidimetric).....99% min.  
M.P. ....96 – 98°C  
pH 6.6 – 8.6.....Colourless to yellow orange

Pack Size: 5g, 25g

## 4-Nitrophenol

CAS 100-02-7  
 $\text{C}_6\text{H}_4\text{OHNO}_2 = 139.11$

U.N Number.....1663  
ADG Class.....6.1  
Packing Group.....III



### 3086 4-Nitrophenol

OP

pH indicator.

Pack Size: 25g

## 1-Nitroso-2-Naphthol

CAS 131-91-9  
 $C_{10}H_7NO_2 = 173.17$

### 1149 1-Nitroso-2-Naphthol(Metal and Micro Reagent)

LABCHEM

M.P. ....107 – 109°C

Maximum limit of impurities(%)  
 Sulphated ash..... 0.2

Pack Size: 25g

**1-Nitroso-2-Naphthol-3,6 Disulphonic Acid,Disodium Salt Hydrate** (See Nitroso-R-Salt Page 313 )

**N-Nitroso-N-Phenylhydroxylamine Ammonium Salts** (See Cupferron Page 160 )

## Nitroso-R-Salt

CAS 525-05-3  
**Synonym:** 1-Nitroso-2-Naphthol-3,6 disulphonic acid,disodium salt hydrate  
 $C_{10}H_5O_8NS_2Na_2 \cdot xH_2O = 377.3$

### 2299 Nitroso-R-Salt

UNILAB

Assay (iodometric).....90% min.  
 Sensitivity to cobalt.....1:1000000

Maximum limit of impurities(%)  
 R.O.I. (as  $SO_4$ ).....37  
 L.O.D.....1

Suitability for determination of Co. ....To pass test

Pack Size: 25g

## 4-Nitrotoluene

CAS 99-99-0  
**Synonyms:** 1-Methyl-4Nitrobenzene  
 $C_7H_7NO_2 = 137.14$

U.N Number.....1664  
 ADG Class.....6.1  
 Packing Group.....II



### 1150 4-Nitrotoluene For Synthesis

UNILAB

Assay.....98% min.  
 M.P. ....50 – 53°C

Maximum limit of impurities(%)  
 Sulphated ash..... 0.05

Pack Size: 500g

**Octadecanoic Acid** (See Stearic Acid Pdr Page 432 )

## 1-Octadecanol

CAS 112-92-5

Synonyms: Stearyl alcohol; Octadecyl alcohol

$C_{18}H_{38}O = 270.49$

### 3088 1-Octadecanol

LABCHEM

Assay (GC).....>96%

M.P. ....55 – 58°C

Pack Size: 500g

Octadecyl Alcohol (See 1-Octadecanol Page 314 )

## 1-Octane Sulphonic Acid

CAS 3944-72-7

$C_8H_{17}SO_3Na.H_2O = 234.30$

U.N Number.....2920

ADG Class.....8

SUB.....3

Packing Group.....II



### 2341 1-Octane Sulphonic Acid 0.25M in acetic acid

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Pack Size: 5X20mL

## 1-Octane Sulphonic Acid Sodium Salt

CAS 5324-84-5

$C_8H_{17}SO_3Na = 216.26$

### 2417 1-Octane Sulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Assay.....99% min.

Pack Size: 10g

## n-Octanoic Acid

CAS 124-13-0

$C_8H_{16}O_2 = 144.21$

U.N Number.....3265

ADG Class.....8

Packing Group.....III



### 2465 n-Octanoic Acid

UNILAB

Description: Pale yellow oily liquid

Assay.....99.0% min.

Pack size: 250mL

## Octan-1-Ol

CAS 111-87-5  
 $\text{CH}_3(\text{CH}_2)_7\text{OH} = 130.23$

### 2370 Octan-1-Ol

UNILAB

Density.....about 0.827g/mL  
 R.I.....about 1.429  
 Boiling Point (760mm).....196°C  
 Colour(APHA).....10  
 Assay.....99% min.

Maximum limit of impurities(%)

R.A.E..... 0.004

Titration acid.....0.0002 meq/g

Conforms to ACS

Pack Size: 500mL, 2.5L GL

## Octan-2-Ol

CAS 123-96-6  
 $\text{CH}_3(\text{CH}_2)_5\text{CHOHCH}_3 = 130.23$

### 2379 Octan-2-Ol

LABCHEM

Assay (GC).....97% min.

Maximum limit of impurities(%)

N.V.M..... 0.01

Pack Size: 500mL

**n-Octanol** (See Octan-1-ol Page 315 )

**Sec-Octanol** (See Octan-2-ol Page 315 )

## Octyl Sulphate, Sodium Salt For HPLC

CAS 142-31-4  
 $\text{CH}_3(\text{CH}_2)_7\text{OSO}_3\text{Na} = 232.28$

### 3762 Octyl Sulphate, Sodium Salt For HPLC

OP

Assay.....99.0% min.  
 U.V. max. absorption.....250nm

Maximum limit of impurities(%)

L.O.D..... 2.0

Cl..... 0.05

Pack size: 5g

## Oil Red O (C.I. 26125)

CAS 1320-06-5  
 $C_{26}H_{24}N_4O = 408.51$

### 3248 Oil Red O (C.I. 26125)

LABCHEM

Appearance: Reddish brown powder

Pack size: 25g

## Oleic Acid

CAS 112-80-1  
 $C_{17}H_{33}COOH = 282.47$

### 1151 Oleic Acid

LABCHEM

Congealing point.....about 8°C  
Acid Value (mg KOH/gm).....195 – 204  
Iodine (gm I<sub>2</sub>/ 100 gm).....86-97  
Cloud point.....10°C  
Colour (5 ¼ " LOV) .....11.0Y/1.3R

Pack Size: 500mL, 2.5L

## Orange G (CI 16230)

CAS 1936-15-8

### 3246 Orange G (CI 16230)

OP

Stain for microscopy.

Pack Size: 50g

## Orcein

CAS 1400-62-0

### 3247 Orcein

OP

Pack Size: 25g

## Orcinol Monohydrate

CAS 6153-39-5  
Synonyms: 3,5-Dihydroxytoluene  
 $C_7H_8O_2 \cdot H_2O = 142.16$

### 3089 Orcinol Monohydrate (Reagent for sugars)

LABCHEM

Assay.....99% min.  
M.P. ....56 – 58°C

Pack Size: 10g



## Orthophosphoric Acid 85%

CAS 7664-38-2  
H<sub>3</sub>PO<sub>4</sub> = 98.00

U.N Number.....1805  
ADG Class.....8  
Packing Group.....III



### 371 Orthophosphoric Acid 85%

UNIVAR

**Description:** Clear, viscous liquid; odourless.

Density.....about 1.69g/mL  
Assay.....85.0% w/w min.  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

Cl. .... 0.0003  
NO<sub>3</sub> ..... 0.0005  
SO<sub>4</sub> ..... 0.003  
Silicate (SiO<sub>2</sub>) ..... 0.005  
Volatile acids (asCH<sub>3</sub>COOH)K,Na ..... 0.001  
Reducing substances To pass test  
Fe..... 0.0015  
Cu ..... 0.0001  
Co ..... 0.0001  
Cd ..... 0.0001

As ..... 0.0001  
Zn ..... 0.0002  
Pb ..... 0.0002  
Ni ..... 0.0005  
Sb ..... 0.0005  
Ca ..... 0.002  
Mn ..... 0.00005  
Insol. matter ..... 0.001  
H.M. (as Pb) ..... 0.001  
Mg ..... 0.002

Conforms to ACS

Pack Size: 500mL, 2.5L

### 372 Orthophosphoric Acid 85%

UNILAB

Density.....about 1.7g/mL  
Assay.....84.0% w/w min.

Maximum limit of impurities(%)

Cl. .... 0.001  
NO<sub>3</sub> ..... 0.002  
SO<sub>4</sub> ..... 0.01

Ca & Mg ppt ..... 0.01  
Fe ..... 0.01

Pack Size: 500mL, 2.5L

### 373 Orthophosphoric Acid 81%

UNIVAR

**Description:** Colourless, clear or light colour viscous liquid

Assay.....81.0% w/w min.  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

As ..... 0.0005  
F ..... 0.001  
H.M. (as Pb) ..... 0.0005  
Readily Oxidizable subs. (as H<sub>3</sub>PO<sub>3</sub>) ..... 0.012  
Cl ..... 0.0001

SO<sub>4</sub> ..... 0.003  
Fe ..... 0.0001  
Cd ..... 0.0003  
Pb ..... 0.0003

Pack Size: 2.5L

### 2212 Orthophosphoric Acid 81%

LABCHEM

**Description:** Clear, viscous liquid; odourless.

Assay.....80-82%

Maximum limit of impurities(%)

As ..... 0.0001

H.M. (as Pb) ..... 0.001

Pack Size: 2.5L

## 1530 Orthophosphoric Acid 25%

UNIVAR

Description: Clear liquid

Assay.....24.0 – 26.0% w/w

Density @ 25°C.....~1.1468

Pack Size: 2.5L

Orthophosphorous Acid (See Phosphorous Acid (Crystals) Page 335 )

## Osmic Acid

CAS 20816-12-0

OsO<sub>4</sub> = 254.20

U.N Number.....2471

ADG Class.....6.1

Packing Group.....I



## 369 Osmic Acid

LABCHEM

Suitable for EM work.

Appearance: Yellow monoclinic crystals.

M.P:.....39.5°C

B.P:.....130°C (sublimes)

Assay.....99.95% min.

Maximum limit of impurities(%)

Ru (DCP-AES)..... 0.002

H<sub>2</sub>O..... 0.004

NVM..... 0.002

Store below 4°C (refrigerate do NOT freeze)

Pack Size: 0.1g, 1g

Osmium Tetroxide (See Osmic Acid Page 318 )

## Oxalic Acid

CAS 6153-56-6

(COOH)<sub>2</sub>.2H<sub>2</sub>O = 126.07

U.N Number.....3261

ADG Class.....8

Packing Group.....III



## 350 Oxalic Acid

UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....99.5 - 102.5%

Maximum limit of impurities(%)

Insol..... 0.005

R.A.I..... 0.01

Cl..... 0.002

N cpds (as N)..... 0.001

SO<sub>4</sub>..... 0.005

Ca..... 0.001

Fe..... 0.0002

H.M. (as Pb)..... 0.0005

Subs. darkened by hot H<sub>2</sub>SO<sub>4</sub> To pass test

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

**351 Oxalic Acid** UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Sulph. ash.....	0.05	Fe.....	0.001
Cl.....	0.002	H.M. (as Pb).....	0.002
SO <sub>4</sub> .....	0.05		

Pack Size: 500g

**1152 Oxalic Acid** TECHNICAL

Pack Size: 500g, 3kg

**1395 Oxalic Acid 0.05mol Concentrate, Ampoule** OP

**Description:** plastic ampoule containing clear colourless liquid  
0.05 mole (6.303g C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>) to prepare 1L of 0.1N solution  
Molarity.....0.0499 - 0.0501

Pack size: Ampoule

**Palladium Chloride (Pd 59-60%)**

CAS 7647-10-1  
PdCl<sub>2</sub> = 17731

U.N Number.....3288  
ADG Class.....6.1  
Packing Group.....II



**195 Palladium Chloride (Pd 59-60%)** LABCHEM

Pd content.....59 - 60%

Pack Size: 1g

**Palmitic Acid**

CAS 57-10-3  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>COOH = 256.43

**1505 Palmitic Acid** UNILAB

Assay (GC).....98% min.

Maximum limit of impurities(%)

Stearic acid (GC).....	.1	Acid number.....	.240
Iodine number.....	0.5	Saponification number.....	.240

Pack Size: 500g

**(+) Pantothenic Acid Calcium** (See Calcium-D-Pantothenate Page 125 )

**PAR Indicator** (See 4-(2-Pyridylazo)-Resorcinol Page 372 )

## Paraffin Liquid

CAS 8012-95-1

### 356 Paraffin Liquid

LABCHEM

Density.....0.83 - 0.89g/mL

Pack Size: 500mL, 2.5L, 20L

## Paraffin Wax

CAS 8002-74-2

### 3251 Paraffin Wax, pastillated, M.P.56-58 °C

LABCHEM

Specially purified for histological embedding.

Pack Size: 1Kg

### 3250 Paraffin Wax, pastillated

OP

Melting point 52°C.

Pack Size: 1kg, 5kg

PAN (See 1-(2-Pyridylazo)-2-Naphthol Page 372 )

PEG 200 (See Polyethylene Glycol 200 Page 338 )

## N-Pentane

CAS 109-66-0  
 $\text{CH}_3(\text{CH}_2)_3\text{CH}_3 = 72.15$

U.N Number.....1265  
ADG Class.....3  
Packing Group.....I



### 276 N-Pentane 99%

SPECTROSOL

Density.....0.626 g/mL  
M.P. ....-129°C  
B.P. ....36.1°C  
Assay (GC).....99.0% min.  
Acidity (mEq/g).....0.0005 max.

FTIR Spectrum.....To Pass test

Maximum limit of impurities(%)  
Water (by Coulometry)..... 0.01  
R.O.E. .... 0.0005

Max. UV. Absorbance:  
 $\lambda$ (nm)      200   210   220   230   240  
Absorbance   0.70   0.22   0.07   0.02   0.009

Pack Size: 500mL, 2.5L GL

### 632 n-Pentane

UNIVAR

Description: clear volatile liquid.  
Assay(GC).....99.0 % w/w min.  
Density.....0.620-0.630 g/mL  
R.I. ....1.356 – 1.359

Maximum limit of impurities(%)  
Non-vol. .... 0.002

Acidity (as  $\text{CH}_3\text{COOH}$ )..... 0.002

Pack Size: 500mL, 2.5L, 20L, 200L

**1153** n-Pentane

UNILAB

Assay.....99% min.  
 Density.....about 0.62 g/mL  
 B.R.(95% min.).....34 – 37°C

Maximum limit of impurities(%)  
 Non-vol..... 0.005

Pack Size: 500mL, 2.5L, 20L, 200L

**Iso-Pentane**

CAS 78-78-4  
 $(\text{CH}_3)_2\text{CHC}_2\text{H}_5 = 72.15$

U.N Number.....1265  
 ADG Class.....3  
 Packing Group.....I

**1521** Iso-Pentane

UNILAB

Density.....about 0.62g/mL  
 B.R.(95% min.).....27 - 30°C  
 Assay.....95% min.  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)  
 Non-vol..... 0.005

Pack Size: 500mL, 20L, 200L

**1-Pentane Sulphonic Acid Sodium Salt**

CAS 22767-49-3  
 $\text{C}_5\text{H}_{11}\text{SO}_3\text{Na} = 174.19$

**2414** 1-Pentane Sulphonic Acid Sodium Salt

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Appearance: White flakes

Assay.....98% min.

Pack Size: 10g

**1-Pentane Sulphonic Acid**

CAS 35452-30-3  
 $\text{C}_5\text{H}_{12}\text{SO}_3 = 152.19$

**2338** 1-Pentane Sulphonic Acid 0.25 mol/L in acetic acid

UNICHROM

Specially purified for HPLC. An ion-pairing reagent for the separation of basic compounds.

Non-volatile matter.....42.8 - 44.2mg/mL

UV absorbance.....1.0 max (@ 354 nm)

Pack Size: 5X20mL

**2,4-Pentanedione** (See Acetylacetone Page 27 )

## Pentan-1-ol

CAS 71-41-0  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>OH = 88.15

U.N Number.....1105  
ADG Class.....3  
Packing Group.....III



### 1357 Pentan-1-ol (n-Amyl Alcohol)

UNIVAR

Assay.....98.0% min.  
Colour (APHA).....30

Maximum limit of impurities(%)

Acids and Esters..... 0.075 meq/g  
Carbonyl compounds (HCHO)..... 0.1

Residue after Evaporation..... 0.003  
Water..... 0.5

Pack size: 500mL

### 63 Pentan-1-ol

UNILAB

Density.....about 0.81g/mL  
R.I.....about 1.410  
Assay (GC).....99% min.  
Water.....0.2% max.  
Colour (APHA).....15 max.

Pack Size: 500mL, 2.5L

Iso-Pentyl Alcohol (See Iso-Amyl Alcohol Page 62 )

## Peptone

### 2331 Peptone, Bacteriological

LABCHEM

High purity for general bacteriological work.

Pack Size: 250g

# Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation

Simply visit: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)



## Perchloric Acid

CAS 7601-90-3  
HClO<sub>4</sub> = 100.46

U.N Number.....1873  
ADG Class.....5.1  
SUB.....8  
Packing Group.....I



359

### Perchloric Acid 70%

UNIVAR

**Description:** clear, viscous liquid; odourless.

Density.....about 1.70g/mL  
Assay.....69.0 - 72.0% w/w  
Colour (APHA).....10 max.

Maximum limit of impurities(%)

R.A.I.....	0.003
Cl.....	0.001
N cpds (as N).....	0.001
HM (as Pb).....	0.0001
SiO <sub>2</sub> & PO <sub>4</sub> (as SiO <sub>2</sub> ).....	0.0005
SO <sub>4</sub> .....	0.001
Free Chlorine.....	0.0001
Al.....	0.000005
As.....	0.000005
Ba.....	0.000005
Co.....	0.000005
Pb.....	0.000005

Mo.....	0.000005
Cd.....	0.000005
Ca.....	0.000005
Mg.....	0.000005
Na.....	0.000005
Cu.....	0.000001
Ni.....	0.000001
K.....	0.000001
Ag.....	0.000001
Zn.....	0.000001
Sr.....	0.000002
Fe.....	0.000001

Conforms to ACS

Pack Size: 500mL, 2.5L

## Perchloric Acid 0.1M In Acetic Acid

U.N Number.....2920  
ADG Class.....8  
SUB.....3  
Packing Group.....II



2281

### Perchloric Acid 0.1M In Acetic Acid

UNIVOL

For non-aqueous titrations.

Molarity.....0.0995-0.1005mol/L

Pack Size: 2.5L

Perchloroethylene (See Tetrachloroethylene Page 445 )

## Periodic Acid

CAS 13444-71-8  
HIO<sub>4</sub>·2H<sub>2</sub>O = 227.94

U.N Number.....1479  
ADG Class.....5.1  
Packing Group.....II



2389

### Periodic Acid

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Sulphated ash..... 0.5

Pack Size: 25g

## Periodic Acid 1% Solution

U.N Number.....3265  
ADG Class.....8  
Packing Group.....III



### 1834 Periodic Acid 1% Solution

LABCHEM

Periodic Acid 1% aqueous solution

Pack Size: 500mL

## Periodic Acid 50% Solution

U.N Number.....3265  
ADG Class.....8  
Packing Group.....III



### 1846 Periodic Acid 50% Solution

LABCHEM

Periodic Acid 50% aqueous solution

Pack Size: 500mL

Petroleum Ether (See Petroleum Spirit 30 - 40°C Page 324 )

## Petroleum Spirit B.R.30-40 °C.

CAS 64742-49-0

U.N Number.....1268  
ADG Class.....3  
Packing Group.....I



### 1158 Petroleum Spirit B.R.30-40 °C.

UNIVAR

Description: clear, colourless, volatile liquid.

Density.....about 0.62g/mL

B.R.(90% min.).....30 - 40°C

Maximum limit of impurities(%)

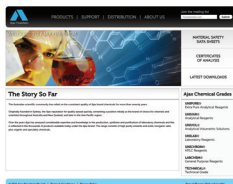
Non-vol..... 0.001

Acidity..... 0.0013 mmol H

S cpds (as CS<sub>2</sub>)..... 0.0003

H<sub>2</sub>O..... 0.015

Pack Size: 2.5L, 20L



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.



## Petroleum Spirit B.R.40-60°C.

CAS 64742-49-0

U.N Number.....3295  
 ADG Class.....3  
 Packing Group.....II



### 2324 Petroleum Spirit B.R.40-60°C.

UNICHROM

**Description:** clear, colourless, volatile liquid.

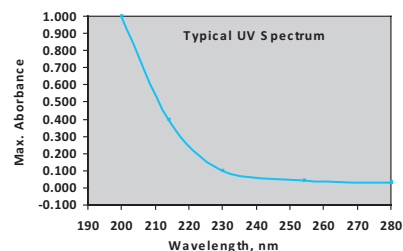
R.I .....1.369  
 Viscosity @ 20°C.....0.28cP  
 B.R. ....40 - 60°C  
 ASSAY.....>99.5

Maximum limit of impurities(%)

Non-vol..... 0.001  
 Acidity..... 0.013 mmol H  
 H<sub>2</sub>O (by K.F.)..... 0.01

**Suggested Applications:**

Specially purified grade filtered through 0.45 micron filter for HPLC. and pesticide residue analysis.



**U.V. Absorbance:**

λ(nm)	200	214	254	280
Max. abs	1.00	0.40	0.04	0.03

**Pack Size:** 2.5L

## Petroleum Spirit B.R.40-60°C.(Aromatic free)

CAS 8032-32-4

### 756 Petroleum Spirit B.R.40-60°C. (Aromatic free)

UNIVAR

**Description:** Clear, colourless, volatile liquid.

Free from aromatic hydrocarbons.

Density.....about 0.64g/mL.  
 B.R.(90% min.).....40 - 60°C

Maximum limit of impurities(%)

Non-vol..... 0.001  
 Acidity..... 0.0013 mmol H  
 Aromatics (as C<sub>6</sub>H<sub>6</sub>)..... 0.001

S cpds (as CS<sub>2</sub>)..... 0.0003  
 H<sub>2</sub>O..... 0.015

**Pack Size:** 2.5L, 20L

### 361 Petroleum Spirit B.R.40-60°C.

UNIVAR

**Description:** Clear, colourless, volatile liquid.

Density.....about 0.64g/mL.  
 B.R.(90% min.).....40 - 60°C

Maximum limit of impurities(%)

Non-vol..... 0.001  
 Acidity..... 0.0013  
 S cpds (as CS<sub>2</sub>)..... 0.0003  
 H<sub>2</sub>O (K.F.)..... 0.015  
 Al..... 0.00001  
 Ba..... 0.000005  
 Mg..... 0.000005  
 Cd..... 0.000005  
 Pb..... 0.000005  
 Ca..... 0.000005

Na..... 0.00005  
 Zn..... 0.00005  
 Cr..... 0.000002  
 Co..... 0.000002  
 Cu..... 0.000002  
 Mn..... 0.000002  
 Ni..... 0.000002  
 Sr..... 0.000002  
 Fe..... 0.00002  
 K..... 0.00002

Conforms to ACS

**Pack Size:** 2.5L, 10L, 20L, 200L

## Petroleum Spirit B.R.40-70°C.

CAS 110-54-3

U.N Number.....1208

ADG Class.....3

Packing Group.....II



### 1384 Petroleum Spirit B.R.40-70°C.

UNILAB

Density.....about 0.65g/mL  
B.R.(90% min.).....40 - 70°C

Maximum limit of impurities(%)  
Non-vol..... 0.005

Pack Size: 2.5L, 20L

## Petroleum Spirit B.R.60-80°C.

CAS 110-54-3

U.N Number.....3295

ADG Class.....3

Packing Group.....II



### 362 Petroleum Spirit B.R.60-80°C.

UNIVAR

**Description:** Clear, colourless, volatile liquid.  
Density.....about 0.67g/mL.  
B.R.(90% min.).....60 - 80 °C

Maximum limit of impurities(%)  
Non-vol..... 0.001  
Acidity..... 0.0013  
S cpds (as CS<sub>2</sub>)..... 0.0003  
H<sub>2</sub>O..... 0.015

Pack Size: 2.5L, 20L

## Petroleum Spirit B.R. 80-110°C

CAS 8032-32-4

U.N Number.....1268

ADG Class.....3

Packing Group.....II



### 363 Petroleum Spirit B.R. 80-110 °C

UNIVAR

**Description:** Clear, colourless, volatile liquid.  
Density.....about 0.69g/mL.  
B.R.(90% min.).....80 - 110°C

Maximum limit of impurities(%)  
Non-vol..... 0.001  
Acidity..... 0.0013  
S cpds (as CS<sub>2</sub>)..... 0.0003  
H<sub>2</sub>O..... 0.015

Pack Size: 2.5L, 20L

# Coatasil

## Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

**2401** pH Sticks, 0-14 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions  
 Gradation: 0-1-2-3-4-5-6-7-8-9-10-11-12-13-14

Pack Size: 100

**7870** pH Sticks 0-6 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions  
 Gradation: 0-0.5-1.0-1.5-2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0

Pack Size: 100

**7873** pH Sticks 2-9 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions  
 Gradation: 2.0-2.5-3.0-3.5-4.0-4.5-5.0-5.5-6.0-6.5-7.0-7.5-8.0-8.5-9.0

Pack Size: 100

**7871** pH Sticks 6-10 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions  
 Gradation: 6.0-6.4-6.7-7.0-7.3-7.6-7.9-8.2-8.4-8.6-8.8-9.1-9.5-10.0

Pack Size: 100

**7872** pH Sticks 7-14 AJAX

For pH measurement in weakly buffered or strongly alkaline solutions  
 Gradation: 7.0-7.5-8.0-8.5-9.0-9.5-10.0-10.5-11.0-11.5-12.0-12.5-13.0-13.5-14.0

Pack Size: 100

**1,10 -Phenanthroline-Ferrous Complex Solution** (See Ferroin Soln 0.025M Page 204 )

**1,10-Phenanthroline Hydrate**

CAS 5144-89-8  
 $C_{12}H_8N_2 \cdot H_2O = 198.23$

U.N Number.....2811  
 ADG Class.....6.1  
 Packing Group.....III



**365** 1,10-Phenanthroline Hydrate UNIVAR

Reagent for Fe. Redox indicator.  
**Description:** white to off-white crystals or crystalline powder.

Maximum limit of impurities(%)	
Suitability as redox indicator. ....	To pass test
Suitability for determining Fe. ....	To pass test
Transition EMF (@ pH=0). ....	+1.08 V
Transition EMF (@ pH=7). ....	+ 1.12 V
Colour change: Oxidized (faint blue) to reduced red)	

Conforms to ACS

Pack Size: 5g, 100g

**O-Phenanthroline Hydrate** (See 1-10 -Phenanthroline Hydrate Page 327 )

**Phenazone** (See Antipyrine Page 69 )

## Phenethyl Alcohol

CAS 60-12-8  
 $C_6H_5CH_2CH_2OH = 122.17$

### 1012 Phenethyl Alcohol

OP

Assay.....99.0% min.  
 Density.....1.0200  
 Dielectric constant @ 25°C.....9.93  
 R.I. (n<sub>20</sub>/D).....1.5310 - 1.5330

Pack size: 100g

## Phenol

CAS 108-95-2  
 $C_6H_5OH = 94.11$

U.N Number.....1671  
 ADG Class.....6.1  
 Packing Group.....II



### 366 Phenol

UNIVAR

**Description:** colourless hygroscopic crystals becoming pink on exposure to light or moisture.  
 F.P.(dry basis).....40°C

Maximum limit of impurities(%)

Insol.....	0.005	Cu.....	0.000005
Non-vol.....	0.02	Tarry matter.....	no reaction
Acidity or alkalinity.....	0.04 mmol H or OH	Ba.....	0.00006
Cl.....	0.0005	Ca.....	0.0001
Al.....	0.0005	Sr.....	0.000002
Mg.....	0.0005	Co.....	0.000002
Zn.....	0.0005	Mn.....	0.000002
Fe.....	0.00015	Mo.....	0.000002
Pb.....	0.000005	Ni.....	0.000002
Cd.....	0.000005	K.....	0.001
Cr.....	0.000005	Na.....	0.001

Store below 4°C (refrigerate)

Pack Size: 500g, 5kg

### 1159 Phenol crystals

UNILAB

Colourless or faintly pink or faintly yellowish crystals or crystalline masses.

Assay.....99.0 - 100.5%  
 F.P.....39.5°C min.

Maximum limit of impurities(%)

Acidity.....	To pass test	ROE.....	0.05
Clarity & colour of sol.....	To pass test		

Store below 4°C (refrigerate)

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

## Phenol Red

CAS 143-74-8  
 $C_{19}H_{14}O_5S = 354.37$

### 2300 Phenol Red LABCHEM

pH indicator.  
 Visual transition colour  
 pH (0.0) pink.....To pass test  
 pH (2.0) and 6.8 yellow.....To pass test  
 pH (8.2) red.....To pass test

Pack Size: 5g, 100g

### 7880 Phenol Red 1% Solution LABCHEM

Appearance: Intense red solution  
 Free Alkalinity: Colour change red to orange @ 18.5mL  $\pm$  2mL  
 Absorbance (0.05% @ 559nm).....0.80 – 0.92

Pack Size: 20L

## Phenolphthalein

CAS 77-09-8  
 $(HOC_6H_4)_2CC_6H_4COO = 318.33$

### 2656 Phenolphthalein UNILAB

A white or yellowish-white, crystalline or amorphous powder; odourless or almost odourless  
 Assay(dried subst.).....98.0 - 102.0%  
 Melting point.....258 – 263°C

Maximum limit of impurities(%)		
Heavy metals (as Pb).....	0.0020	L.O.D..... 1.0
Fluoran. ....	.To pass test	Sulphated ash..... 0.1

Chemical and physical parameters conform to BP

Pack Size: 100g

### 368 Phenolphthalein LABCHEM

Assay.....min 98%

Pack Size: 25g, 100g, 500g, 5kg, 25kg

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Phenolphthalein Solution

CAS 64-17-5

U.N Number.....1993

ADG Class.....3

Packing Group.....II



### 754 Phenolphthalein Solution

LABCHEM

pH indicator solution.

1.0% in methylated spirit.

pH 8.0 (colourless).....To pass test

pH 8.2 (pale pink).....To pass test

pH 8.6 (pink).....To pass test

pH 10.0 (red)..... To pass test

Pack Size: 100mL, 500mL

## 2-Phenoxyethanol

CAS 122-99-6

$C_6H_5OCH_2CH_2OH = 138.17$

### 586 2-Phenoxyethanol

LABCHEM

Density at (20°C).....about 1.07g/mL

Description: Mobile, colourless liquid. The product is sensitive to iron.

Assay by GLC.....99.0%

Pack Size: 500mL, 20L

Phenylacetonitrile (See Benzyl Cyanide Page 87 )

N-Phenylacetamide (See Acetanilide Page 20 )

## Phenylacetic Acid

CAS 103-82-2

$C_6H_5CH_2COOH = 136.15$

### 1160 Phenylacetic Acid

UNILAB

Assay.....99% min.

M.P. ....75-78°C

Pack Size: 500g

## DL-Phenylalanine

CAS 150-30-1

$C_9H_{11}NO_2 = 165.2$

### 3092 DL-Phenylalanine

UNILAB

Appearance: White crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

H.M (as Pb)..... 0.0005

Pack size: 25g

## L-Phenylalanine

CAS 63-91-2  
 $C_9H_{11}NO_2 = 165.2$

### 3430 L-Phenylalanine

UNIVAR

Appearance: White crystalline powder  
 Assay.....99.0% min.  
 Specific Rotation.....-33.0 to -35.2°

Maximum limit of impurities(%)  
 H.M (as Pb)..... 0.002  
 As..... 0.0003  
 L.O.D..... 0.3

Pb..... 0.001  
 R.O.I..... 0.1

Pack size: 25g

## N-Phenylanthralinic Acid

CAS 91-40-7  
 Synonyms: DPC; Diphenylamine-2-Carboxylic acid  
 $C_{13}H_{11}NO_2 = 213.24$

### 2526 N-Phenylanthralinic Acid (Redox indicator colourless to pinkish violet)

LABCHEM

Assay (T).....99% min.  
 M.P. ....182 – 185°C

Maximum limit of impurities(%)  
 Sulphated ash..... 0.05

Pack Size: 10g

Phenyl Bromide (See Bromobenzene Page 98 )

Phenylcarbinol (See Benzyl Alcohol Page 86 )

Phenyl Chloride (See Chlorobenzene Page 136 )

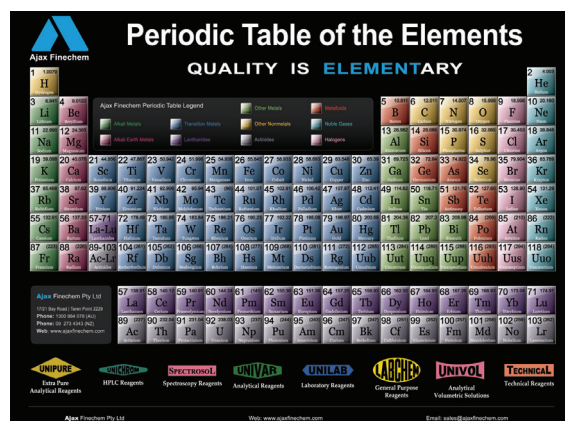
Phenyl Cyanide (See Benzonitrile Page 84 )

# Ajax Finechem Periodic Table

The latest edition of the Ajax Finechem Periodic Table of the Elements is now available.

The slick and colourful Periodic Table of the Elements poster will be a welcome addition to your laboratory.

To request your copy simply visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) complete the "literature request"-form or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com) and a FREE Ajax Finechem Periodic Table will be delivered to you promptly.



## m-Phenylenediamine Dihydrochloride

CAS 541-69-5  
 $C_6H_8N_2 \cdot 2HCl = 181.07$

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 3094 m-Phenylenediamine Dihydrochloride

LABCHEM

Assay (AT).....99.0% min.

Pack Size: 100g

## p-Phenylenediamine

CAS 106-50-3  
Synonyms: 1,4-Diaminobenzene; 1,4-Benzenediamine  
 $C_6H_4(NH_2)_2 = 108.14$

U.N Number.....1673  
ADG Class.....6.1  
Packing Group.....III



### 1161 p-Phenylenediamine

UNILAB

Assay.....97% min.  
M.P. ....139 – 141°C

Maximum limit of impurities(%)  
Sulphated ash..... 0.05

Pack Size: 250g

## Phenylhydrazine

CAS 100-63-0  
 $C_6H_8N_2 = 108.14$

U.N Number.....2527  
ADG Class.....6.1  
Packing Group.....II



### 1514 Phenylhydrazine (Reagent for aldehyde, ketones and sugar, For the detection of molybdenum)

UNILAB

Assay (HClO<sub>4</sub> Titration).....98% min.  
M.P. ....19 – 20°C

Maximum limit of impurities(%)  
Sulphated ash..... 0.005

Pack Size: 100mL

Phenylhydrazine Hydrochloride (See Phenylhydrazinium Chloride Page 333 )

# Extra Pure Analytical Reagents



UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards. Discover More: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)



## Phenyhydrazinium Chloride

CAS 59-88-1  
 $C_6H_5NHNH_2 \cdot HCl = 144.61$

U.N Number.....2527  
 ADG Class.....6.1  
 Packing Group.....III



### 1538 Phenyhydrazinium Chloride

LABCHEM

Reagent for aldehydes & ketones.  
 Assay (iodate titration).....99.0% min.

Maximum limit of impurities(%)  
 Sulphated ash..... 0.1

Pack Size: 250g

Phenyl Methane (See Toluene Page 454 )

## Phenyl Disodium Orthophosphate

CAS 3279-54-7  
 $C_6H_5Na_2PO_4 \cdot 2H_2O = 254.09$

### 1285 Phenyl Disodium Orthophosphate

LABCHEM

Assay.....98% min.  
 Maximum limit of impurities(%)  
 L.O.D. .... .15  
 Free Phenol..... 0.02

Suitable for detmn of phosphatase

To pass test

Store below 4°C (refrigerate)

Pack Size: 100g

## Phenyl Mercury Nitrate (Basic)

CAS 8003-05-2  
 $C_{12}H_{11}Hg_2NO_4 = 634.41$

U.N Number.....1895  
 ADG Class.....6.1  
 Packing Group.....II



### 3095 Phenyl Mercury Nitrate (Basic) For Synthesis

LABCHEM

Assay (ex Hg).....99% min.  
 M.P. (decomposition).....180 – 190°C

Pack Size: 25g, 100g

## Phenyl Salicylate

CAS 118-55-8  
 $HOC_6H_4COOC_6H_5 = 214.22$

### 2332 Phenyl Salicylate

LABCHEM

Appearance: White crystals.  
 MP.....about 43°C

Pack Size: 100g

## Phloroglucinol

CAS 108-73-6  
C<sub>6</sub>H<sub>6</sub>O<sub>3</sub> = 126.1

### 1162 Phloroglucinol

UNIVAR

Appearance: White crystalline powder  
Assay.....99.0% min.  
Melting Point.....219 - 222°C

Maximum limit of impurities(%)  
R.O.I..... 0.05

Pack size: 25g, 100g

## Phloxine B

CAS 18472-87-2  
Synonyms: Acid red 92; Cyanosine  
C<sub>20</sub>H<sub>2</sub>Br<sub>4</sub>Cl<sub>4</sub>Na<sub>2</sub>O<sub>5</sub> = 829.64

### 3173 Phloxine B For Microscopy (Microbial, protozoa, algal staining & eosinophile counting) C.I. 45410

LABCHEM

Absorption (in 50% ethanol).....546 – 550nm  
Dye content.....80% min.

Pack Size: 25g

Phosphomolybdic Acid (See dodeca-Molybdophosphoric acid Page 297 )

## Meta-Phosphoric Acid

CAS 37267-86-0

U.N Number.....3260  
ADG Class.....8  
Packing Group.....III



### 3096 Meta-Phosphoric Acid (Glacial sticks)

UNILAB

HPO<sub>3</sub> (approx.).....60%  
NaPO<sub>3</sub> (approx.).....40%

Maximum limit of impurities(%)  
Cl..... 0.005                      Fe..... 0.002  
SO<sub>4</sub>..... 0.02                      Pb..... 0.002

Pack Size: 500g

Phthalic Acid Dibutyl Ester (See Di-N-Butyl Phthalate Page 110 )

Phosphoric Anhydride (See Phosphoric Oxide Page 335 )

## Phosphoric Oxide (Phosphorus Pentoxide)

CAS 1314-56-3  
P<sub>2</sub>O<sub>5</sub> = 141.95

U.N Number.....1807  
ADG Class.....8  
Packing Group.....II



### 324 Phosphoric Oxide (Phosphorus Pentoxide)

UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

As.....0.01

H.M. (as Pb).....0.02

Fe.....0.005

Cl.....0.005

Pack Size: 250g, 5kg

## Phosphorus Pentachloride

CAS 10026-13-8  
Synonyms: Phosphorus (V) chloride  
PCl<sub>5</sub> = 208.24

U.N Number.....1806  
ADG Class.....8  
Packing Group.....II



### 3097 Phosphorus Pentachloride For Synthesis

LABCHEM

Assay (argentometry).....>99%

Decomposes with water

Corrosive, irritant

Pack Size: 500g

Phosphorus Pentoxide (See Phosphoric Oxide Page 335 )

## Phosphorus, Red, Amorphous

CAS 7723-14-0  
P = 30.97

U.N Number.....1338  
ADG Class.....4.1  
Packing Group.....III



### 1164 Phosphorus, Red, Amorphous

LABCHEM

Assay.....97% min.

Maximum limit of impurities(%)

Fe.....0.2

Pack Size: 500g, 10kg

# Laboratory Reagents

UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Phosphorus Trichloride

CAS 7719-12-2  
PCl<sub>3</sub> = 137.33

U.N Number.....1809  
ADG Class.....6.1  
SUB.....8  
Packing Group.....I



### 374 Phosphorus Trichloride UNILAB

Density.....about 1.57g/mL  
Assay.....99.0% min.

Maximum limit of impurities(%)

Cu.....	0.0001	Fe.....	0.0001
Ni.....	0.0001	Pb.....	0.0001

Pack Size: 500mL

## Phosphoryl Chloride

CAS 10025-87-3  
POCl<sub>3</sub> = 153.33

U.N Number.....1810  
ADG Class.....8  
Packing Group.....II



### 1167 Phosphoryl Chloride UNILAB

Density.....about 1.67g/mL  
Assay.....99% min.

Pack Size: 500mL

Phosphotungstic Acid (See Dodeca-Tungstophosphoric Acid Page 472 )

## Phthalic Acid

CAS 88-99-3  
C<sub>8</sub>H<sub>6</sub>O<sub>4</sub> = 166.1

### 3150 Phthalic Acid UNIVAR

Appearance: White crystalline powder  
Assay.....99.5% min.

Maximum limit of impurities(%)

Fe.....	0.001	Cl.....	0.001
H.M. (as Pb).....	0.001	SO <sub>4</sub> .....	0.005

Pack size: 250g

## Phthalic Anhydride

CAS 85-44-9  
C<sub>8</sub>H<sub>4</sub>O<sub>3</sub> = 148.12

### 375 Phthalic Anhydride UNILAB

Appearance: White crystalline powder, M.P. 129°C -132°C  
Assay.....98.0% min.

Pack Size: 500g

## Picric Acid

CAS 88-89-1  
 $(\text{NO}_2)_3\text{C}_6\text{H}_2\text{OH} = 229.11$

U.N Number.....1344  
 ADG Class.....4.1  
 Packing Group.....I



### 3099 Picric Acid

UNIVAR

All data related to water-free substance.

Assay.....98.0% min.  
 M.P. ....119 - 122°C

Maximum limit of impurities(%)

Insoluble in toluene.....	0.1	Cl.....	0.005
Sulph. ash.....	0.1	SO <sub>4</sub> .....	0.5

Pack Size: 100g, 500g

## Piperazine-N-N'-Bis(2-Ethanesulfonic Acid) (See Pipes Page 337 )

## Piperidine

CAS 110-89-4  
 $\text{C}_5\text{H}_{11}\text{N} = 85.15$

U.N Number.....2401  
 ADG Class.....8  
 SUB.....3  
 Packing Group.....I



### 3101 Piperidine

UNIVAR

Assay (GC).....99% min.

Maximum limit of impurities(%)

H.M. (as Pb).....	0.0001	Pyridine.....	0.3
Fe.....	0.0001	N.V.....	0.01
Picoline.....	0.1	H <sub>2</sub> O.....	0.3

Pack Size: 100 mL, 500 mL

## Pipes, Biological Buffer

CAS 5625-37-6  
 $\text{C}_8\text{H}_{18}\text{N}_2\text{O}_6\text{S}_2 = 302.37$

### 3434 Pipes, Biological Buffer

UNIVAR

Description: White powder

Assay.....99.0% min.  
 pKa.....6.6 – 7.0

Maximum limit of impurities(%)

Moisture.....1.0

Pack size: 1KG

## Platinic Chloride (See Chloroplatinic Acid Page 141 )

## Platinum Wire

CAS 7440-06-4  
Pt = 195.09

### 1170 Platinum Wire 0.375mm diameter LABCHEM

Assay.....99.9% min.

Maximum limit of impurities(%)

Au. ....	0.0009	Pd. ....	0.0009
Ag. ....	0.0009	Rh. ....	0.0009
Cu. ....	0.0009		

Pack Size: 25cm

## Platinum (IV)Oxide Hydrate

CAS 52785-06-5  
PtO<sub>2</sub>xH<sub>2</sub>O = 227.09

U.N Number.....1479  
ADG Class.....5.1  
Packing Group.....II



### 3102 Platinum (IV)Oxide Hydrate (Adam's Catalyst) LABCHEM

Assay of Pt.....80%

Pack Size: 1g

## Polyethylene Glycol 200

CAS 25322-68-3  
Synonym: PEG 200  
H(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>OH = 190-200

### 1682 Polyethylene Glycol 200 LABCHEM

Hydroxyl number.....535 – 590  
Density @ 20°C.....1.124 – 1.126

Pack Size: 500 mL

## Polyethylene Glycol 4000

CAS 25322-68-3  
HO(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>H (n approx. 80)

### 1683 Polyethylene Glycol 4000 TECHNICAL

Apparent MW= 3600-4400 .  
Colour.....30 Hazen  
pH (5% ).....soln 5.0 - 7.0  
Viscosity (@ 99°C).....130 – 180 cs

Maximum limit of impurities(%)

Ash.....0.05  
Acidity (HAc).....0.05

Pack Size: 500g

## Polyethylene Glycol 6000

CAS 25322-68-3  
 HO (CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>H (n approx.120).

### 5720 Polyethylene Glycol 6000 TECHNICAL

Apparent MW(5800 - 6800)  
 Colour.....50 Hazen max.

Maximum limit of impurities(%)  
 Acidity (HAc)..... 0.05

Pack Size: 500g, 5kg

**Polysorbate 20** (See Ecoteric T20 Page 190 )

**Polysorbate 80** (See Ecoteric T80 Page 190 )

## Polyvinyl Pyrrolidone (PVP)

CAS 9003-39-8  
 (C<sub>6</sub>H<sub>9</sub>NO)<sub>n</sub> = approx. 40000

### 553 Polyvinyl Pyrrolidone (PVP) LABCHEM

Viscosity @ 25°C (5% aqu. Soln).....about 2.4 cP

Maximum limit of impurities(%)  
 Residual monomer content..... 0.8  
 H<sub>2</sub>O..... 5 Sulphated ash..... 0.02

Pack Size: 100g

## Polyvinyl Alcohol BF17W

CAS 9002-89-5

### 4877 Polyvinyl Alcohol BF17W TECHNICAL

Fully hydrolysed grade  
 Viscosity.....25 – 30cps  
 Hydrolysis (mole%).....95.0 – 97.0  
 pH.....5 – 7  
 Volatile matter.....5.0% max.  
 Ash.....1.0% max.

Pack Size: 500g

# Coatasil

### Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Ponceau S

CAS 6226-79-5

$C_{22}H_{12}N_4Na_4O_{13}S_4 = 760.56$

### 3254 Ponceau S For Electrophoresis C.I. 27195 (For the staining of albumins and globulins) LABCHEM

Dye content (titrimetric).....80% min.  
Absorption (in water).....517 – 523 nm  
Suitability for microscopy                      To pass test

Maximum limit of impurities(%)  
L.O.D. @ 110°C......10

Pack Size: 25g

## Popop, Scintillation Grade

CAS 1806-34-4

$C_{24}H_{16}N_2O_2 = 364.4$

### 720 Popop, Scintillation Grade LABCHEM

Description: Yellow to yellow-green solid  
Assay.....97.0% min.  
Melting point.....243 - 246°C

Pack size: 25g

## PPO Scintillation Grade

CAS 92-71-7

Synonyms: 2,5-Diphenyloxazole

$C_{15}H_{11}NO = 221.26$

### 443 PPO Scintillation Grade LABCHEM

Assay.....99% min.  
M.P. ....72 – 74°C

Pack Size: 25g

## Potassium 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



### 2645 Potassium 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Potassium standard, ready for use.  
K in 0.5% Nitric acid.

Pack Size: 100mL



## Potassium AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2603 Potassium AAS Standard

SPECTROSOL

A 1000 ppm Potassium standard, ready for use.  
 Each ml contains 1.00+/- 0.005mg of K in 0.5% Nitric acid.

Pack Size: 500mL

Traceable to NIST

## Potassium Acetate

CAS 127-08-2  
 $\text{CH}_3\text{COOK} = 98.14$

### 3930 Potassium Acetate, Anhydrous

UNIVAR

Description: White to colourless crystalline powder  
 Assay.....99.0% min.

Maximum limit of impurities(%)

Mg. .... 0.002  
 Ca. .... 0.005  
 Fe. .... 0.0005

H.M. (as Pb)..... 0.0005  
 Cl. .... 0.003  
 $\text{SO}_4$ ..... 0.001

Conforms to ACS

Pack size: 500g, 5Kg

### 352 Potassium Acetate

UNILAB

Assay(after drying).....99.0% min.

Maximum limit of impurities(%)

L.O.D. .... 1  
 H.M (as Pb)..... 0.005

Cl. .... 0.005  
 $\text{SO}_4$ ..... 0.005

Pack Size: 500g

**Potassium Aluminium Sulphate** (See Aluminium Potassium Sulphate) Page 40 )

**Potassium Alum** (See Aluminium Potassium Sulphate Page 40 )

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
 Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)

## Potassium Antimonate

CAS 1333-78-4  
K<sub>3</sub>SbO<sub>3</sub>·3H<sub>2</sub>O = 262.91

U.N Number.....1549  
ADG Class.....6.1  
Packing Group.....III



### 1171 Potassium Antimonate

UNIVAR

**Description:** white to cream coloured crystalline powder.  
Reagent for Na  
Suitable for the detection of Na  
Assay.....99.0% min

**Pack Size:** 100g

**Potassium Antimony Tartrate** (See Antimony Potassium (+) Tartrate Page 68 )

**Potassium Bicarbonate** (See Potassium Hydrogen Carbonate Page 351 )

**Potassium Bichromate** (See Potassium Dichromate Page 348 )

**Potassium Biphosphate Monobasic** (See Potassium Dihydrogen Ortho-Phosphate Page 349 )

**Potassium Biphthalate** (See Potassium Hydrogen Phthalate Page 352 )

**Potassium Bi-Tartrate** (See Potassium Hydrogen Tartrate Page 354 )

## Potassium Bromate

CAS 7758-01-2  
KBrO<sub>3</sub> = 167.00

U.N Number.....1484  
ADG Class.....5.1  
Packing Group.....II



### 1802 Potassium Bromate, Certified Reference Standard

UNIPURE

Assay (Iodom.) (dried at 130°C).....99.95 – 100.05%  
pH (5% Soln).....5.0 – 9.0

Maximum limit of impurities(%)

Insoluble matter in H<sub>2</sub>O..... 0.005  
Nitrogen Compounds (as N)..... 0.001  
Br..... 0.02  
SO<sub>4</sub>..... 0.005  
Heavy Metals (as Pb)..... 0.0005  
Ca..... 0.005  
Cd..... 0.0005  
Co..... 0.0005

Cu..... 0.0005  
Fe..... 0.0005  
Mg..... 0.001  
Mn..... 0.0005  
Na..... 0.01  
Ni..... 0.0005  
Pb..... 0.0005  
Zn..... 0.0005

**Pack Size:** 100g

378

Potassium Bromate

UNIVAR

Description: white crystalline powder.

Assay.....99.8% min.  
pH (5% soln. @ 25°C).....5.0 – 9.0

Maximum limit of impurities(%)

Insol..... 0.005  
Br To pass test  
N cpds (as N)..... 0.001  
SO<sub>4</sub>..... 0.005  
Fe..... 0.002

H.M. (as Pb)..... 0.0005  
Na..... 0.01  
Cl..... 0.05  
L.O.D..... 0.1

Conforms to ACS

Pack Size: 500g

353

Potassium Bromate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Bromide..... 0.05  
SO<sub>4</sub>..... 0.005

H.M (as Pb)..... 0.002  
Fe..... 0.002

Pack Size: 500g

Potassium Bromide

CAS 7758-02-3

KBr = 119.00

379

Potassium Bromide

UNIVAR

Description: colourless crystals or crystalline powder.

Assay.....99.0% min.  
pH (5% soln. @ 25°C).....5.8 – 8.8

Maximum limit of impurities(%)

Insol..... 0.005  
BrO<sub>3</sub>..... 0.001  
Cl..... 0.2  
I..... 0.001  
N cpds (as N)..... 0.005  
SO<sub>4</sub>..... 0.005  
Ba..... 0.002  
Fe..... 0.0005

Na..... 0.02  
Ca..... 0.002  
Mg..... 0.001  
IO<sub>3</sub>..... 0.001  
Ca..... 0.002  
Mg..... 0.001  
HM (as Pb)..... 0.0005

Conforms to ACS

Pack Size: 500g

354

Potassium Bromide

UNILAB

Description: colourless crystals or a white, crystalline powder; odourless.

Assay (after drying).....98.0 - 100.5%

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test  
L.O.D..... 1.0  
Acidity or alkalinity..... To pass test  
BrO<sub>3</sub>..... To pass test  
I..... To pass test

SO<sub>4</sub>..... 0.01  
H.M.(as Pb)..... 0.001  
Fe..... 0.002  
Mg & alk-earth metals (as Ca)..... 0.02  
Cl..... 0.6

Chemical and physical parameters conform to BP

Pack Size: 500g

## Potassium Carbonate, Anhydrous

CAS 584-08-7  
K<sub>2</sub>CO<sub>3</sub> = 138.21

### 380 Potassium Carbonate, Anhydrous UNIVAR

Description: white powder.  
Assay(after drying @ 285°C).....99.5 – 100.5%

Maximum limit of impurities(%)

Insol.....	0.01	NH <sub>4</sub> OH ppt.....	0.01
L.O.D. (@ 285°C).....	1.0	Ca&Mg ppt.....	0.01
Cl.....	0.003	As.....	0.0001
N cpds (as N).....	0.001	Pb.....	0.001
PO <sub>4</sub> .....	0.001	Fe.....	0.0005
SiO <sub>2</sub> .....	0.005	H.M. (as Pb).....	0.0005
S cpds (as SO <sub>4</sub> ).....	0.004	Na.....	0.02

Conforms to ACS

Pack Size: 500g

### 381 Potassium Carbonate Anhydrous UNILAB

Assay(after drying @ 285°C).....99.0% min.

Maximum limit of impurities(%)

L.O.D. (@ 285 °C).....	2.5	SO <sub>4</sub> .....	0.02
Cl.....	0.03	Fe.....	0.001

Pack Size: 500g, 5kg, 25kg

## Potassium Chlorate

CAS 3811-04-9  
KClO<sub>3</sub> = 122.55

U.N Number.....1485  
ADG Class.....5.1  
Packing Group.....II



### 382 Potassium Chlorate UNIVAR

Description: colourless crystals.  
Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.002
BrO <sub>3</sub> .....	0.015	Mg.....	0.002
Cl.....	0.001	Fe.....	0.0003
N cpds (as N).....	0.001	H.M. (as Pb).....	0.0005
SO <sub>4</sub> .....	0.002	Na.....	0.01

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

### 1172 Potassium Chlorate UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	H.M. (as Pb).....	0.001
SO <sub>4</sub> .....	0.06		

Pack Size: 500g, 5kg

**1390 Potassium Chlorate**

TECHNICAL

Pack Size: 500g

**Potassium Chloride**

CAS 7447-40-7  
KCl = 74.55

**383 Potassium Chloride**

UNIVAR

**Description:** colourless crystals or crystalline powder.  
Assay (after ignition @ 500°C).....99.8% min.

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.001
Br.....	0.01	Mg.....	0.001
ClO <sub>3</sub> & NO <sub>3</sub> (as NO <sub>3</sub> ).....	0.003	H.M.(as Pb).....	0.0005
I.....	0.002	Fe.....	0.0002
N cpds (as N).....	0.001	Cu.....	0.0002
PO <sub>4</sub> .....	0.0005	Pb.....	0.0002
SO <sub>4</sub> .....	0.001	Na.....	0.005
Ba.....	0.001	pH of 5% solution 25°C.....	5.4-8.6

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 25kg

**384 Potassium Chloride**

UNILAB

**Description:** colourless crystals or a white crystalline powder; odourless.  
Assay(dried substance).....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of soln.	To pass test	Ba	To pass test
Acidity or alkalinity	To pass test	H.M.(as Pb).....	0.0010
L.O.D.@ 105 deg.C.....	1.0	Fe.....	0.0020
Al.....	0.0001	Mg & alk.-earth metals (as Ca).....	0.0200
I	To pass test	Na.....	0.1
SO <sub>4</sub> .....	0.0300	Br.....	0.1

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

**943 Potassium Chloride**

LABCHEM

Assay.....98.0% min.

Pack Size: 500g

**1391 Potassium Chloride**

TECHNICAL

Assay.....98.6% min.

Maximum limit of impurities(%)

Br.....	0.2	NaCl.....	1.0
SO <sub>4</sub> .....	0.01	Insol.....	0.05
Ca.....	0.02		

Pack Size: 500g

**564 Potassium Chloride 0.001 M Solution UNIVOL**

Molarity.....0.000995 - 0.001005mol/L

Pack Size: 20L

**565 Potassium Chloride 0.01 M Solution UNIVOL**

Molarity.....0.00995 - 0.01005mol/L

Pack Size: 20L

**568 Potassium Chloride 0.1 M Solution UNIVOL**

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 20L

**970 Potassium Chloride 3M Solution LABCHEM**

Description: Clear colourless liquid  
 Concentration:.....2.9 – 3.1 mol/L

Filling solution for potentiometer electrodes

Store between 15°C and 25°C

Pack size: 250mL

**Potassium Chromate**

CAS 7789-00-6  
 $K_2CrO_4 = 194.19$

U.N Number.....3288  
 ADG Class.....6.1  
 Packing Group.....II



**385 Potassium Chromate UNIVAR**

Description: bright yellow crystalline powder.  
 Assay.....99.5% min.  
 pH (5% soln. @ 25°C).....8.6 – 9.8

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.005
Cl.....	0.001	Na.....	0.02
SO <sub>4</sub> .....	0.005		

Conforms to ACS

Pack Size: 500g

**1173 Potassium Chromate UNILAB**

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	SO <sub>4</sub> .....	0.2
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Pack Size: 500g

**1174 Potassium Chromate TECHNICAL**

Assay.....about 98%

Pack Size: 500g

## Tri-Potassium Citrate

CAS 866-84-2  
 $K_3C_6H_5O_7 \cdot H_2O = 324.42$

### 386 Tri-Potassium Citrate UNIVAR

**Description:** colourless crystals or crystalline powder. Hygroscopic.

Assay.....99.0% min.  
 pH (5% soln.).....8.0 – 9.0

Maximum limit of impurities(%)

Insol.....	0.003	Fe.....	0.001
Cl.....	0.001	Na.....	0.1
C <sub>2</sub> O <sub>4</sub> .....	0.01	NH <sub>4</sub> .....	0.001
SO <sub>4</sub> .....	0.005	Pb.....	0.0005
As.....	0.00004	Readily carbonisable subs.	To pass test
Cu.....	0.00005	Red. subs.	To pass test

Pack Size: 500g

### 1175 Tri-Potassium Citrate UNILAB

**Description:** transparent crystals or a white granular powder; odourless; hygroscopic.

Assay (C<sub>6</sub>H<sub>5</sub>K<sub>3</sub>O<sub>7</sub>).....99.0 - 101.0%  
 H<sub>2</sub>O.....4.0 – 7.0%

Maximum limit of impurities(%)

Clarity and colour of soln.	To pass test	H.M. (as Pb).....	0.0010
Acidity or alkalinity.....	2.0	C <sub>2</sub> O <sub>4</sub> .....	0.0300
Cl.....	0.0050	Readily carbonisable subs.	To pass test
SO <sub>4</sub> .....	0.0150	Na.....	0.3

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

**Potassium Citrate** (See tri-Potassium Citrate Page 347 )

**Potassium Cupri-Tartrate Solution** (See Fehlings Soln No 1 Page 203 )

## Potassium Cyanide

CAS 151-50-8  
 KCN = 65.12

U.N Number.....1680  
 ADG Class.....6.1  
 Packing Group.....I



### 2494 Potassium Cyanide UNIVAR

**Description:** colourless crystals or crystalline powder.

Assay.....96.0% min.

Maximum limit of impurities(%)

Cl.....	0.5	SO <sub>4</sub> .....	0.04
PO <sub>4</sub> .....	0.005	Fe.....	0.03
S.....	0.003	Na.....	0.5
SCN.....	0.02	Pb.....	0.0002

Conforms to ACS  
 Have pure breathing oxygen available  
 Refer MSDS

Pack Size: 250g, 5kg

**819 Potassium Cyanide UNILAB**

Assay.....96.0% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.05	Pb.....	0.002
H.M. (as Pb).....	0.002	Fe.....	0.03
Na.....	1.0	Cl.....	0.5

Have pure breathing oxygen available  
Refer MSDS

Pack Size: 250g, 5kg

**Potassium Dichromate**

CAS 7778-50-9  
K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> = 294.19

U.N Number.....3288  
ADG Class.....6.1  
Packing Group.....I



**1803 Potassium Dichromate, Certified Reference Standard UNIPURE**

Assay (Iodom.) (dried at 130°C) 99.95 – 100.05%  
pH (5% Soln).....3.7 – 3.9

Maximum limit of impurities(%)

Insoluble matter in H <sub>2</sub> O.....	0.003	Cu.....	0.001
Suitability to COD determination (according to UNE 77-004-89)	To pass test	Fe.....	0.001
Cl.....	0.001	Mg.....	0.0005
SO <sub>4</sub> .....	0.01	Mn.....	0.0005
Ca.....	0.002	Na.....	0.02
Cd.....	0.0005	Ni.....	0.0005
Co.....	0.0005	Pb.....	0.001
		Zn.....	0.0005

Pack Size: 100g

**388 Potassium Dichromate UNIVAR**

**Description:** orange-red crystals or crystalline powder.  
Assay.....99.8% min.

Maximum limit of impurities(%)

Insol.....	0.005	Na.....	0.01
L.O.D. (105°C).....	0.05	Cu.....	0.001
Cl.....	0.001	Fe.....	0.001
SO <sub>4</sub> .....	0.005	Pb.....	0.005
Ca.....	0.002		

Conforms to ACS

Pack Size: 500g, 5kg

**389 Potassium Dichromate UNILAB**

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	Na.....	0.5
SO <sub>4</sub> .....	0.02	Ca.....	0.005

Pack Size: 500g, 5kg

**390 Potassium Dichromate Technical**

Pack Size: 500g, 3kg



**1359 Potassium Dichromate 1/60 MOL Concentrate, Ampoule** OP

**Description:** plastic ampoule containing clear yellow-reddish liquid  
 1/60 mole (4.903g  $K_2Cr_2O_7$ ) to prepare 1L of 0.1N solution  
 Molarity.....0.0998 – 1.002

**Pack size:** Ampoule

**Potassium Dihydrogen Orthophosphate**

CAS 7778-77-0  
 $KH_2PO_4 = 136.09$

**391 Potassium Dihydrogen Orthophosphate** UNIVAR

**Description:** white crystalline powder.  
 Assay.....99.0 - 101.0%  
 pH (5% soln. @ 25°C).....4.2 – 4.5

Maximum limit of impurities(%)

Insol.....	0.01	Mg.....	0.002
L.O.D. (@ 130 DEGC).....	0.2	Ca.....	0.01
Cl.....	0.001	Na.....	0.01
F.....	0.001	Cu.....	0.0005
H.M.(as Pb).....	0.001	Pb.....	0.0005
N cpds (as N).....	0.005	As.....	0.0002
SO <sub>4</sub> .....	0.005	Reducing substances	To pass test
Fe.....	0.002	Appearance of solution	To pass test

Chemical and physical parameters conform to FCC and EP

**Pack Size:** 500g, 2kg, 5kg, 25kg

**392 Potassium Dihydrogen Orthophosphate** UNILAB

pH (5% soln.@ 25°C).....about 4.4  
 Assay(after drying).....99.0% min.

Maximum limit of impurities(%)

L.O.D. (over H <sub>2</sub> SO <sub>4</sub> ).....	0.5	SO <sub>4</sub> .....	0.05
Cl.....	0.02		

**Pack Size:** 500g, 5kg, 25kg

**Potassium Ferricyanide**

CAS 13746-66-2  
 $K_3Fe(CN)_6 = 329.25$

**393 Potassium Ferricyanide** UNIVAR

**Description:** red crystals.  
 Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Co.....	0.005
Cl.....	0.01	Cu.....	0.001
SO <sub>4</sub> .....	0.01	Na.....	0.04
Ferrocyanide.....	0.05	Ni.....	0.001
Ca.....	0.0005	Pb.....	0.002
Cd.....	0.002	Zn.....	0.002

Conforms to ACS

**Pack Size:** 100g, 500g, 20kg

**394 Potassium Ferricyanide UNILAB**

Assay.....99.0% min.

Maximum limit of impurities(%)

Ferrocyanide..... 0.1  
 Cl..... 0.1 SO<sub>4</sub>..... 0.05

Pack Size: 500g, 5kg

**1176 Potassium Ferricyanide TECHNICAL**

Pack Size: 500g

**Potassium Ferrocyanide**

CAS 13943-58-3  
 $K_4Fe(CN)_6 \cdot 3H_2O = 422.39$

**395 Potassium Ferrocyanide UNIVAR**

Description: yellow crystals or crystalline powder.  
 Assay.....98.5 – 102.0%

Maximum limit of impurities(%)

Insol..... 0.005  
 Cl..... 0.01 Cd..... 0.0005  
 SO<sub>4</sub>..... 0.005 Cu..... 0.002  
 Pb..... 0.002 Na..... 0.02

Conforms to ACS

Pack Size: 500g, 5kg

**1177 Potassium Ferrocyanide UNILAB**

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl..... 0.05 SO<sub>4</sub>..... 0.05

Pack Size: 500g, 5Kg

**Potassium Fluoride**

CAS 7789-23-3  
 KF = 58.10

U.N Number.....1812  
 ADG Class.....6.1  
 Packing Group.....III



**1079 Potassium Fluoride UNILAB**

Assay.....99% min.

Maximum limit of impurities(%)

L.O.I (500°C,15min)..... 0.5  
 Fe..... 0.005 Cl..... 0.01  
 SO<sub>4</sub>..... 0.05

Pack Size: 500g, 5kg, 10kg

**Potassium Hexacyanoferrate** (See Potassium Ferricyanide Page 349 )

**Potassium Hexacyanoferrate (II)-3 Hydrate** (See Potassium Ferrocyanide Page 350 )

## Potassium Hydrogen Carbonate

CAS 298-14-6  
KHCO<sub>3</sub> = 100.12

### 397 Potassium Hydrogen Carbonate UNIVAR

Description: white powder.

Assay.....99.7 – 101.0%

Maximum limit of impurities(%)

Insol..... 0.01  
Cl..... 0.001  
PO<sub>4</sub>..... 0.0005  
S cpds (as SO<sub>4</sub>)..... 0.003  
Ca..... 0.002  
Mg..... 0.001

Fe..... 0.0005  
H.M. (as Pb)..... 0.0005  
Na..... 0.03  
NH<sub>4</sub>..... 0.0005  
As..... 0.0003

Pack Size: 500g, 5kg

### 1178 Potassium Hydrogen Carbonate UNILAB

Assay.....99.0% min.

pH (1% soln.).....9.6 max.

Maximum limit of impurities(%)

Cl..... 0.01  
Ca..... 0.05  
Mg..... 0.05

R<sub>2</sub>O<sub>3</sub> ppt..... 0.05  
H.M. (as Pb)..... 0.001

Pack Size: 500g

## Potassium Hydrogen Diiodate, Certified Reference Standard

CAS 13455-24-8  
KH(IO<sub>3</sub>)<sub>2</sub> = 389.92

U.N Number.....1479

ADG Class.....5.1

Packing Group.....II



### 1804 Potassium Hydrogen Diiodate, Certified Reference Standard UNIPURE

Assay (Acidim.) (dried at 105°C).....99.95 – 100.05%

Assay (Iodom.) (dried at 105°C).....99.9 – 100.1%

Maximum limit of impurities(%)

Insoluble matter in H<sub>2</sub>O..... 0.005  
Nitrogen cpds (as N)..... 0.002  
BrO<sub>3</sub>, Br, ClO<sub>3</sub>, Cl (as Cl)..... 0.02  
SO<sub>4</sub>..... 0.005  
I..... 0.001  
H.M. (as Pb)..... 0.001  
Ca..... 0.002  
Cd..... 0.0005  
Co..... 0.0005

Cr..... 0.0005  
Cu..... 0.0005  
Fe..... 0.001  
Mg..... 0.0005  
Mn..... 0.0005  
Na..... 0.005  
Ni..... 0.0005  
Pb..... 0.0005  
Zn..... 0.0005

Pack Size: 100g

## Di-Potassium Hydrogen Orthophosphate

CAS 7758-11-4  
 $K_2HPO_4 = 174.18$

### 2221 Di-Potassium Hydrogen Orthophosphate

UNIVAR

Description: white powder.

Assay(after drying).....99.0 - 101.0%  
 pH (5% soln. @ 25°C).....8.5 – 9.6

Maximum limit of impurities(%)

Insol.....	0.01	Cu.....	0.0005
L.O.D.....	1.0	Pb.....	0.0005
Cl.....	0.003	Mg.....	0.0005
N cpds (as N).....	0.001	H.M.(as Pb).....	0.0005
F.....	0.001	Na.....	0.15
SO <sub>4</sub> .....	0.005	As.....	0.0003
Ca.....	0.005	Identification	To pass test
Fe.....	0.0005		

Pack Size: 500g, 5kg, 25kg

### 398 DI-Potassium Hydrogen Orthophosphate

UNILAB

pH(5% soln.).....about 8.8  
 Assay(after drying).....99.0% min.

Maximum limit of impurities(%)

L.O.D.....	2.5	H.M.(as Pb).....	0.005
Cl.....	0.01	Fe.....	0.005
SO <sub>4</sub> .....	0.05		

Pack Size: 500g, 5kg, 25kg

## Potassium Hydrogen Phthalate

CAS 877-24-7  
 $C_8H_5KO_4 = 204.23$

### 1805 Potassium Hydrogen Phthalate, Certified Reference Standard

UNIPURE

Assay (Acidim) (dried at 105°C).....99.95 – 100.05%  
 Identity IR to pass test  
 pH sol. 0.05mol/L to 25±0.2°C.....4.00 – 4.02

Maximum limit of impurities(%)

Insoluble matter in H <sub>2</sub> O.....	0.003	Cr.....	0.001
Chloride cpds (as Cl).....	0.003	Cu.....	0.0005
Nitrogen cpds (as N).....	0.001	Fe.....	0.0005
Sulphur cpds (as S).....	0.002	Mg.....	0.001
Cl.....	0.002	Mn.....	0.0005
H.M. (as Pb).....	0.0005	Na.....	0.005
Ca.....	0.001	Ni.....	0.0005
Cd.....	0.0005	Pb.....	0.0005
Co.....	0.0005	Zn.....	0.0005

Pack Size: 100g

**399 Potassium Hydrogen Phthalate UNIVAR**

**Description:** colourless crystals or crystalline powder.  
 pH(0.05M @25°C).....4.00 - 4.02  
 Assay(after drying @ 120°C).....99.8 – 100.2%

Maximum limit of impurities(%)		
Insol.....	0.005	Fe..... 0.0005
Cl.....	0.003	H.M. (as Pb)..... 0.0005
S.....	0.002	Na..... 0.005

Pack Size: 100g, 500g, 10kg

**1181 Potassium Hydrogen Phthalate UNILAB**

pH(0.05M @25°C).....about 4.0  
 Assay.....99.5% min.

Maximum limit of impurities(%)		
Cl.....	0.01	SO <sub>4</sub> ..... 0.06

Pack Size: 500g, 5kg

**Potassium Hydrogen Sulphate**

CAS 7646-93-7  
 KHSO<sub>4</sub> = 136.17

U.N Number.....2509  
 ADG Class.....8  
 Packing Group.....II



**400 Potassium Hydrogen Sulphate UNIVAR**

**Description:** colourless crystals.  
 Assay.....99.0 - 102.0%

Maximum limit of impurities(%)		
Insol.....	0.01	Fe..... 0.002
Cl.....	0.002	H.M. (as Pb)..... 0.001
PO <sub>4</sub> .....	0.001	Na..... 0.01
As.....	0.0005	H <sub>2</sub> O..... 2.5
Ca.....	0.005	

Pack Size: 500g, 5kg

**401 Potassium Hydrogen Sulphate UNILAB**

Assay.....98.0% min.

Maximum limit of impurities(%)		
Cl.....	0.02	H.M.(as Pb), Fe..... 0.005

Pack Size: 500g

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)

## Potassium Hydrogen Tartrate

CAS 868-14-4  
KHC<sub>4</sub>H<sub>4</sub>O<sub>6</sub> = 188.18

### 402 Potassium Hydrogen Tartrate

UNIVAR

**Description:** white crystalline powder.

Assay (after drying @ 110°C).....99.5% min.  
pH (0.5% soln. @ 25°C).....3.5 – 3.8

Maximum limit of impurities(%)

Insoluble matter in H <sub>2</sub> O.....	0.01	Pb.....	0.001
L.O.D. (@110°C).....	0.05	Ni.....	0.001
Cl.....	0.001	Ca.....	0.005
SO <sub>4</sub> .....	0.01	Cu.....	0.001
As.....	0.0001	HM (as Pb).....	0.001
Fe.....	0.001	Ammonium (NH <sub>4</sub> ).....	0.005

Pack Size: 500g

### 403 Potassium Hydrogen Tartrate

UNILAB

**Description:** white crystalline powder.

Assay (after drying @ 110°C).....99.0% min.  
pH (0.5% soln. @ 25°C).....3.5 – 4.0

Maximum limit of impurities(%)

L.O.D. (@110°C).....	1.0	SO <sub>4</sub> .....	0.02
Cl.....	0.01	Pb.....	0.005

Pack Size: 500g

## Potassium Hydroxide Pellets

CAS 1310-58-3  
KOH = 56.11

U.N Number.....1813  
ADG Class.....8  
Packing Group.....II



### 405 Potassium Hydroxide Pellets

UNIVAR

**Description:** white or grey, deliquescent pellets.

Assay.....85.0% min.

Maximum limit of impurities(%)

K <sub>2</sub> CO <sub>3</sub> .....	2.0	Pb.....	0.0005
Cl.....	0.01	Ni.....	0.0005
N cpds (as N).....	0.001	PO <sub>4</sub> .....	0.0005
Na.....	0.05	H.M. (as Ag).....	0.001
SO <sub>4</sub> .....	0.003	Al.....	0.001
NH <sub>4</sub> OH ppt.....	0.02	Ca.....	0.001
Cu.....	0.0005	Mg.....	0.002
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g, 1kg, 2.5kg, 5kg, 20kg

**406 Potassium Hydroxide, Pellets UNILAB**

**Description:** white sticks, pellets or fused masses; dry, hard, brittle and showing a crystalline fracture; very deliquescent. Strongly alkaline and corrosive. Rapidly absorbs carbon dioxide.

Assay.....85.0 - 100.5%

Maximum limit of impurities(%)

Appearance of solution	To pass test	Sulphate.....	0.005
K <sub>2</sub> CO <sub>3</sub> .....	2.0	H.M.(as Pb).....	0.001
Cl.....	0.005	Fe.....	0.001
Phosphate.....	0.002	Na.....	1.0

Chemical and physical parameters conform to BP

Pack Size: 500g, 2.5kg, 20kg

**1072 Potassium Hydroxide, flake UNILAB**

**Description:** white deliquescent flakes.

Assay.....90.0% min.

Maximum limit of impurities(%)

K <sub>2</sub> CO <sub>3</sub> .....	2.5	Fe.....	0.001
Cl.....	0.05	H.M. (as Pb).....	0.005
SO <sub>4</sub> .....	0.01		

Pack Size: 25kg

**1183 Potassium Hydroxide 90% (Caustic Potash) Technical**

Pack Size: 500g

**Potassium Hydroxide 0.100M In Methanol**

CAS 1310-58-3

U.N Number.....1992  
 ADG Class.....3  
 SUB.....6.1  
 Packing Group.....II



**705 Potassium Hydroxide 0.100M In Methanol UNIVOL**

Non aqueous titrant for volumetric analysis of weak acids etc.

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 1L, 6 x1L, 2.5L, 20L

**Potassium Hydroxide 0.1 MOL Concentrate, Ampoule**

CAS 1310-58-3  
 KOH = 56.11

U.N Number.....1814  
 ADG Class.....8  
 Packing Group.....II



**1378 Potassium Hydroxide 0.1 MOL Concentrate, Ampoule OP**

**Description:** plastic ampoule containing clear colourless liquid

0.1 mole (5.611g KOH) to prepare 1L of 0.1N solution

Molarity..... 1.000 ± 0.002

Pack size: Ampoule

**1365 Potassium Hydroxide 0.5 MOL Concentrate, Ampoule** OP

Description: plastic ampoule containing clear colourless liquid  
 0.5 mole (28.054g KOH) to prepare 1L of 0.5N solution  
 Molarity.....1.000 ± 0.002

Pack size: Ampoule

**1382 Potassium Hydroxide 1.0 MOL Concentrate, Ampoule** OP

Description: plastic ampoule containing clear colourless liquid  
 1 mole (56.109g KOH) to prepare 1L of 1N solution  
 Molarity.....1.000 ± 0.002

Pack size: Ampoule

**Potassium Iodate**

CAS 7758-05-6  
 KIO<sub>3</sub> = 214.00

U.N Number.....1479  
 ADG Class.....5.1  
 Packing Group.....II



**1806 Potassium Iodate, Certified Reference Standard** UNIPURE

Assay (Iodom.) (dried at 130°C).....99.95 – 100.05%  
 pH (5% Soln).....5.0 – 8.0

Maximum limit of impurities(%)

Insoluble matter in H <sub>2</sub> O.....	0.005	Co.....	0.0005
Nitrogen Compounds (as N).....	0.002	Cu.....	0.0005
Bromide and Chloride (as Cl).....	0.01	Fe.....	0.001
SO <sub>4</sub> .....	0.005	Mg.....	0.001
I.....	0.001	Mn.....	0.0005
H.M. (as Pb).....	0.0005	Na.....	0.005
As.....	0.0001	Ni.....	0.0005
Ca.....	0.001	Pb.....	0.0005
Cd.....	0.0005	Zn.....	0.0005

Pack Size: 100g

**407 Potassium Iodate** UNIVAR

Description: white crystalline powder.

Assay (after drying at 130°C).....99.4 - 100.4%  
 pH (5% soln. @ 25°C).....5.0 – 8.0

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.001
Cl & Br (as Cl).....	0.01	H.M. (as Pb).....	0.0005
I.....	0.001	Na.....	0.005
N cpds (as N).....	0.005	Chlorate	To pass test
SO <sub>4</sub> .....	0.005	LOD.....	0.5

Conforms to ACS

Pack Size: 500g, 5kg





## Potassium Metabisulphite

CAS 16731-55-8  
 $K_2S_2O_5 = 222.33$

### 1184 Potassium Metabisulphite UNIVAR

**Description:** colourless crystals, with a strong odour of  $SO_2$ .  
 Assay.....96.0% min.

Maximum limit of impurities(%)

Insols.....	0.005		
Cl.....	0.005	Cu.....	0.001
Ni.....	0.001	Fe.....	0.001
Pb.....	0.001	$PO_4$ .....	0.0002
As.....	0.0001	Thiosulphate( $S_2O_3$ ).....	0.05

Pack Size: 500g, 5kg

### 411 Potassium Metabisulphite UNILAB

Assay(as  $SO_2$ ).....51.8 - 57.6%

Maximum limit of impurities(%)

Cl.....	0.1		
H.M.....	0.005	Fe (as Fe).....	0.005

Pack Size: 5kg, 25kg

## Potassium Nitrate

CAS 7757-79-1  
 $KNO_3=101.1$

U.N Number.....1486  
 ADG Class.....5.1  
 Packing Group.....III



### 412 Potassium Nitrate UNIVAR

**Description:** white crystalline powder

Assay.....99.0% min.  
 pH (5% soln. @ 25°C).....4.5 - 8.5

Maximum limit of impurities(%)

Insol.....	0.005		
Cl.....	0.002	Mg.....	0.002
$IO_3$ .....	0.0005	$R_2O_3$ ppt.....	0.01
$NO_2$ .....	0.001	Fe.....	0.0003
$PO_4$ .....	0.0005	H.M. (as Pb).....	0.0005
$SO_4$ .....	0.003	Na.....	0.005
Ca.....	0.005	$IO_3$ & $NO_2$	To pass test

Conforms to ACS

Pack Size: 500g, 1kg, 2kg, 5kg, 25kg

# Coatasil

## Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

**791 Potassium Nitrate UNILAB**

Description: colourless crystals, or a white crystalline powder.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Appearance of solution	To pass test	Cl.....	0.002
Reducible substances	To pass test	SO <sub>4</sub> .....	0.015
H.M. (as Pb).....	0.001	Ca.....	0.005
Na.....	0.1	Fe.....	0.001
NH <sub>4</sub> cpds	To pass test	L.O.D.....	0.5

Pack Size: 500g, 5kg, 25kg

**949 Potassium Nitrate LABCHEM**

Assay (Dry basis).....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	Fe.....	0.05
SO <sub>4</sub> .....	0.01		

Pack Size: 500g

**Potassium Nitrite**

CAS 7758-09-0  
KNO<sub>2</sub> = 85.10

U.N Number.....1488  
ADG Class.....5.1  
Packing Group.....II



**1073 Potassium Nitrite UNILAB**

Assay.....97% min.

Maximum limit of impurities(%)

Cl.....	0.01	As.....	0.0001
SO <sub>4</sub> .....	0.02	Fe.....	0.001
H.M.(as Pb).....	0.002	Pb.....	0.0005

Chemical and physical parameters conform to FCC

Pack Size: 500g, 25kg

**Tri-Potassium Orthophosphate**

CAS 7778-53-2  
K<sub>3</sub>PO<sub>4</sub>·H<sub>2</sub>O = 230.29

**1392 Tri-Potassium Orthophosphate LABCHEM**

Assay.....95% min.

Maximum limit of impurities(%)

L.O.I. (@800°C).....	.13	Cl.....	0.005
Fe.....	0.002	SO <sub>4</sub> .....	0.02
H.M. (as Pb).....	0.002		

Pack Size: 500g

## Potassium Oxalate

CAS 583-52-8  
(COOK)<sub>2</sub>.H<sub>2</sub>O = 184.23

### 413 Potassium Oxalate UNIVAR

**Description:** colourless crystals or crystalline powder.  
Assay.....98.5 - 101.0%

Maximum limit of impurities(%)

Insol.....	0.01		
Neutrality	To pass test	H.M. (as Pb).....	0.002
Cl.....	0.002	Na.....	0.02
SO <sub>4</sub> .....	0.01	NH <sub>4</sub> .....	0.002
Fe.....	0.001	Subs. darkened by hot H <sub>2</sub> SO <sub>4</sub>	To pass test

Conforms to ACS

Pack Size: 500g, 5kg

### 1186 Potassium Oxalate UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.01		
SO <sub>4</sub> .....	0.04	Fe.....	0.005

Pack Size: 500g

## Potassium Perchlorate

CAS 7778-74-7  
KClO<sub>4</sub> = 138.55

U.N Number.....1489  
ADG Class.....5.1  
Packing Group.....II



### 1074 Potassium Perchlorate UNIVAR

Assay.....99.0 - 100.5%  
pH (5% soln.).....6 - 8

Maximum limit of impurities(%)

Insols.....	0.005		
Cl.....	0.003	Ca.....	0.005
SO <sub>4</sub> .....	0.001	Fe.....	0.0005
H.M.(as Pb).....	0.0005	Na.....	0.02

Pack Size: 500G

# Ajax Buffers & Solutions Guide

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Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Potassium Periodate

CAS 7790-21-8  
KIO<sub>4</sub> = 230.0

U.N Number.....1479  
ADG Class.....5.1  
Packing Group.....I



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### Potassium Periodate

UNIVAR

**Description:** Colourless crystalline powder  
Assay.....99.5% min.

Maximum limit of impurities(%)

Cl.....	0.01	Mn.....	0.0001
SO <sub>4</sub> .....	0.005		

Pack size: 100g, 500g

## Potassium Permanganate

CAS 7722-64-7  
KMnO<sub>4</sub> = 158.03

U.N Number.....1490  
ADG Class.....5.1  
Packing Group.....II



414

### Potassium Permanganate

UNIVAR

**Description:** dark purple crystals with a metallic lustre; odourless. Decomposes on contact with certain organic substances.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.2	As.....	0.0003
Cl.....	0.005	Cu.....	0.002
ClO <sub>3</sub> (as Cl).....	0.005	Fe.....	0.002
N cpds (as N).....	0.005	Pb.....	0.003
SO <sub>4</sub> .....	0.02		

Conforms to ACS

Pack Size: 500g, 5kg

415

### Potassium Permanganate

UNILAB

**Description:** dark purple or brownish-black, granular powder or dark purple or almost black crystals having a metallic lustre. It decomposes on contact with certain organic substances.

Assay.....99.0 - 100.5%

Maximum limit of impurities(%)

Colour of soln.	To pass test	SO <sub>4</sub> .....	0.0500
Cl.....	0.0200	Water-insoluble matter.....	1.0

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

945

### Potassium Permanganate

LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.1
SO <sub>4</sub> .....	0.1

Pack Size: 500g

**634** Potassium Permanganate, 0.02M Solution UNIVOL

Molarity.....0.0199 - 0.0201mol/L

Pack Size: 500mL

**1361** Potassium Permanganate 0.02 MOL Concentrate, Ampoule OP

Description: plastic ampoule containing clear dark violet liquid

0.02 mole (3.161g KMnO<sub>4</sub>) to prepare 1L of 0.1N solution

Molarity.....0.0998 - 0.1002

Pack size: Ampoule

**Potassium Persulphate**

CAS 7727-21-1  
K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> = 270.32

U.N Number.....1492

ADG Class.....5.1

Packing Group.....III



**2504** Potassium Persulphate UNIVAR

Description: white powder.

Assay.....99% min.

Maximum limit of impurities(%)

Insols..... 0.005

Cl..... 0.001

Fe..... 0.001

H.M. (as Pb)..... 0.001

Mn..... 0.0001

Cd..... 0.0005

Cu..... 0.0005

Zn..... 0.003

Pb..... 0.0005

N cpds. (as N)..... 0.02

Pack Size: 500g

**1188** Potassium Persulphate UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Cl..... 0.04

Pack Size: 500g

**Potassium Phosphate Dibasic** (See di-Potassium Hydrogen Ortho-Phosphate Page 352 )

**Potassium Phosphate Monobasic** (See Potassium Dihydrogen Ortho-Phosphate Page 349 )

**Potassium Phosphate Tribasic** (See tri-Potassium Orthophosphate Page 359 )

**Potassium Polysulphide**

CAS 37199-66-9

U.N Number.....1382

ADG Class.....4.2

Packing Group.....II



**2307** Potassium Polysulphide LABCHEM

Assay.....40% min

Pack Size: 500g,5kg

## Potassium Pyrosulphate

CAS 7790-62-7

### 355 Potassium Pyrosulphate, powder UNIVAR

**Description:** white powder.

Assay.....97.5% min.

Maximum limit of impurities(%)

Insolubles.....	0.01	Fe.....	0.0005
Total (N).....	0.002	H.M. (as Pb).....	0.001
Cl.....	0.0005	Mg.....	0.0005
PO <sub>4</sub> .....	0.001	Na.....	0.01
Ca.....	0.003	Al.....	0.001

**Pack Size:** 500g, 5kg

### 1393 Tetra-Potassium Pyrophosphate LABCHEM

Assay.....95% min.

Maximum limit of impurities(%)

H.M. (as Pb).....	0.001	SO <sub>4</sub> .....	0.002
Fe.....	0.002	Cl.....	0.005

**Pack Size:** 500g

**Potassium Pyrosulphite** (See Potassium Metabisulphite Page 358 )

## Potassium Sodium Tartrate

CAS 6381-59-5

KNaC<sub>4</sub>H<sub>4</sub>O<sub>6</sub>·4H<sub>2</sub>O = 282.22

### 416 Potassium Sodium Tartrate UNIVAR

**Description:** colourless crystals.

Assay.....99.0 - 102.0%

pH (5% soln. @ 25°C).....6.0 – 8.5

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.004
Cl.....	0.001	Fe.....	0.0005
PO <sub>4</sub> .....	0.002	H.M. (as Pb).....	0.0005
NH <sub>4</sub> .....	0.002	Cu.....	0.0002
Mg.....	0.002	Pb.....	0.0002
SO <sub>4</sub> .....	0.005		

Conforms to ACS

**Pack Size:** 500g, 2kg, 5kg, 20kg

### 1157 Potassium Sodium Tartrate UNILAB

Assay.....98.0 104.0%

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.008
SO <sub>4</sub> .....	0.05	H.M. (as Pb).....	0.001

**Pack Size:** 500g, 2kg, 5kg, 25kg

## Potassium Sorbate

CAS 24634-61-5  
 $C_6H_7KO_2 = 150.2$

### 2405 Potassium Sorbate

UNIVAR

**Description:** White rod-shaped granules

**Solubility:** Soluble in water and alcohol. Insoluble in acetone and alcohol.

Assay (Titrimetry).....99.0% min.

Maximum limit of impurities(%)

Fe..... 0.0005

Cl..... 0.0005

Ca..... 0.0005

Pack size: 500G

## Potassium Sulphate

CAS 7778-80-5  
 $K_2SO_4 = 174.26$

### 417 Potassium Sulphate

UNIVAR

**Description:** white powder.

Assay.....99.0% min.

pH (5%soln, @25 Deg C).....5.5 – 8.5

Maximum limit of impurities(%)

Insol..... 0.01

Cl..... 0.001

N cpds (as N)..... 0.0005

Na..... 0.02

Fe..... 0.0005

H.M. (as Pb)..... 0.0005

Mg..... 0.005

Ca..... 0.01

Conforms to ACS

Pack Size: 500g, 1kg, 3kg, 5kg, 25kg

### 418 Potassium Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.01

N cpds (as N)..... 0.002

Fe..... 0.001

H.M. (as Pb)..... 0.001

Pack Size: 500g, 3kg, 5kg, 25kg

**Potassium Sulphocyanide** (See Potassium Thiocyanate Page 366 )



**419 Potassium (+)-Tartrate**

UNILAB

Assay.....99 – 102%

Maximum limit of impurities(%)

Cl. ....	0.05	NH <sub>4</sub> . ....	0.001
SO <sub>4</sub> . ....	0.1	Cu. ....	0.001
Pb. ....	0.001	Zn. ....	0.001
As. ....	0.0003	Oxalic acid. ....	0.05
Ca. ....	0.01	H.M. (as Pb). ....	0.002
Fe. ....	0.002		

Pack Size: 500g

**Potassium Tartrate Acid** (See Potassium Hydrogen Tartrate Page 354 )

**Di Potassium Tartrate** (See Potassium (+)-Tartrate Page 365 )

**Potassium Tellurite**

CAS 7790-58-1  
K<sub>2</sub>TeO<sub>3</sub>.xH<sub>2</sub>O = 253.79.xH<sub>2</sub>O

U.N Number.....3284  
ADG Class.....6.1  
Packing Group.....II



**3106 Potassium Tellurite**

LABCHEM

Pack Size: 10kg

**Potassium Tetraiodomercurate (II)** (See Nessler's Reagent Page 302 )

**Potassium Tetraoxalate Dihydrate**

CAS 6100-20-5  
C<sub>4</sub>H<sub>3</sub>KO<sub>8</sub>.2H<sub>2</sub>O = 254.20

**1189 Potassium Tetraoxalate Dihydrate**

UNIVAR

Assay.....99.5% min. (RT)

Maximum limit of impurities(%)

Cl. ....	0.001	Mg. ....	0.0005
SO <sub>4</sub> . ....	0.01	Mn. ....	0.0005
Ca. ....	0.001	Na. ....	0.005
Cd. ....	0.0005	NH <sub>4</sub> . ....	0.005
Co. ....	0.0005	Ni. ....	0.0005
Cr. ....	0.0005	Pb. ....	0.0005
Cu. ....	0.0005	Zn. ....	0.0005
Fe. ....	0.0005		

Pack Size: 100g

## Potassium Thiocyanate

CAS 333-20-0  
KSCN = 97.18

### 421 Potassium Thiocyanate

UNIVAR

**Description:** colourless or white deliquescent crystals.  
Assay.....98.0% min.  
pH (5% soln. @ 25°C).....5.3 – 8.7

Maximum limit of impurities(%)

Insol. (in H<sub>2</sub>O)..... 0.005  
Cl..... 0.005  
SO<sub>4</sub>..... 0.005  
Fe..... 0.0002

Na..... 0.1  
NH<sub>4</sub>..... 0.1  
H.M. (as Pb)..... 0.0005  
Iodine consuming subs. .... to pass test

Pack Size: 500g, 5kg, 25kg

## Potassium Thiocyanate

CAS 333-20-0

### 422 Potassium Thiocyanate

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl..... 0.01  
SO<sub>4</sub>..... 0.025

Fe..... 0.0005

Pack Size: 500g, 5kg, 25kg

## Potassium Titanium Oxalate Dihydrate

CAS 14402-67-6  
K<sub>2</sub>TiO(C<sub>2</sub>O<sub>4</sub>)<sub>2</sub>·2H<sub>2</sub>O = 354.17

### 106 Potassium Titanium Oxalate Dihydrate

UNIVAR

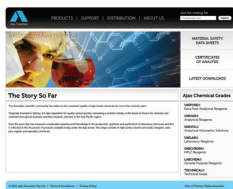
Assay.....98.5% min.  
Reaction (pH).....2.8 – 3.4

Maximum limit of impurities(%)

Insoluble matter..... 0.005  
Cl..... 0.001  
N..... 0.005  
SO<sub>4</sub>..... 0.02

Cu..... 0.005  
Fe..... 0.002  
Pb..... 0.005

Pack Size: 100g



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

## L-Proline

CAS 147-85-3  
 $C_5H_9O_2 = 115.1$

**3107**

### L-Proline

UNIVAR

**Description:** White crystalline powder

Assay.....99.0% min.  
 Specific rotation.....-84.0 to -86.0°

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.002  
 As..... 0.0003  
 L.O.D..... 0.3

Pb..... 0.001  
 R.O.I..... 0.1

Pack size: 25g

**Propanal** (See Propionaldehyde Page 370 )

## Propan-1-ol (n-Propanol)

CAS 57-55-6  
 $CH_3CH(OH)CH_2OH = 76.10$

**427**

### Propan-1-ol (n-Propanol)

UNILAB

Assay.....99.5% min.  
 Distillation Range.....185 – 189°  
 SG @ 25°C.....1.035 – 1.037 g/mL

Maximum limit of impurities(%)

Sulph. ash..... 0.007  
 Acidity To pass USP  
 $H_2O$ ..... 0.2  
 Chloride..... 0.007

$SO_4$ ..... 0.006  
 H.M (as Pb)..... 0.0005  
 As..... 0.0003

Organic volatile impurities.To pass USP

Chemical and physical parameters conform to USP

Pack Size: 2.5L, 20L, 210kg, 215kg

## Propan-1-ol (n-Propanol)

CAS 71-23-8  
 $C_2H_5CH_2OH = 60.10$

U.N Number.....1274  
 ADG Class.....3  
 Packing Group.....II



**424**

### Propan-1-ol (n-Propanol)

UNILAB

For quantitative and qualitative analysis.

B.R.(95% min.).....96 - 98 °C  
 Density.....0.803 – 0.806 g/mL

Maximum limit of impurities(%)

Non-vol..... 0.01

Pack Size: 500mL, 2.5L, 20L

## Propan-2-ol (Isopropanol)

CAS 67-63-0  
(CH<sub>3</sub>)<sub>2</sub>CHOH = 60.10

U.N Number.....1219  
ADG Class.....3  
Packing Group.....II



### 2323 Propan-2-ol (Isopropanol)

UNICHROM

**Description:** colourless liquid.

R.I. ....=1.378  
Viscosity @ 20°C.....2.49cP  
Assay(GLC).....>99.7%

Maximum limit of impurities(%)

Non-vol..... 0.001  
Acidity..... 0.01 mmol H  
H<sub>2</sub>O (by K.F.)..... 0.2

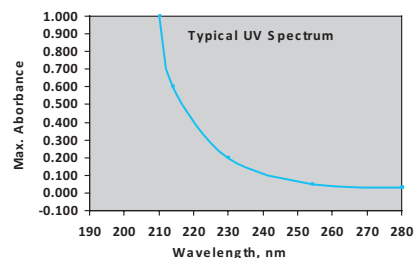
**U.V. Absorbance:**

λ(nm)	210	214	254	280
Max. abs.	1.00	0.60	0.07	0.03

**Suggested Applications:**

Specially purified grade filtered through 0.45 micron filter for HPLC.

**Pack Size:** 2.5L



### 593 Propan-2-ol (Isopropanol)

SPECTROSOL

**Description:** colourless liquid.

For U.V. spectroscopy.

Colour (APHA).....= 10 max.  
Assay.....99.5% min.

Maximum limit of impurities(%)

R.A.E..... 0.001  
Aldehydes&ketones(as(CH<sub>3</sub>)<sub>2</sub>CO)..... 0.005  
Water..... 0.2

Conforms to ACS

**Pack Size:** 500mL, 2.5L

Titratable acid or bases..... 0.01 mmol H or OH  
Sol.in water.....To pass test

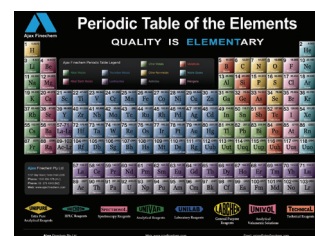
**U.V. Absorbance:**

λ(nm)	210	220	230	245	260	275	300	300-400
Max. abs	1.0	0.40	0.20	0.08	0.04	0.03	0.02	0.01

# Ajax Periodic Table

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**425 Propan-2-ol (Isopropanol)**

UNIVAR

**Description:** clear , colourless liquid with a characteristic odour.  
For qualitative and quantitative analysis.

Assay.....	99.5% min.
Colour (APHA).....	10 max.
Refractive Index.....	1.376-1.379
Relative Density (@ 20°C).....	0.785-0.789

Maximum limit of impurities(%)

Related substances.....	0.3
R.A.E.....	0.001
Titrateable acid or base.....	0.01 mmol H or OH
Sol. (in H <sub>2</sub> O).....	To pass test
Peroxides.....	To pass test
Na.....	0.0002
H <sub>2</sub> O.....	0.2
Benzene.....	0.0002
Al.....	0.00001
Mg.....	0.00001
K.....	0.00001
Ba.....	0.000005

Cd.....	0.000005
Pb.....	0.000005
Ca.....	0.000005
Cr.....	0.000002
Co.....	0.000002
Cu.....	0.000002
Mn.....	0.000002
Ni.....	0.000002
Sr.....	0.000002
Zn.....	0.000002
Fe.....	0.000002
Carbonyl Cpds.....	0.002

**U.V. Absorbance:**

λ(nm)	230	250	270	290	310
Max. abs	0.3	0.1	0.03	0.02	0.01

Chemical and Physical parameters conform to ACS & BP

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

**426 Propan-2-ol (Isopropanol)**

UNILAB

Density.....	about 0.78g/mL
R.I.....	about 1.378
B.R.(95% min.).....	81 - 83°C

Maximum limit of impurities(%)

Non-vol.....	0.01
Titrateable acid or base.....	0.03 mmol H or OH

Aldehydes & ketones (as (CH<sub>3</sub>)<sub>2</sub>CO)..... 0.05

Pack Size: 500mL, 2.5L, 20L, 200L

**946 Propan-2-ol (Isopropanol)**

LABCHEM

B.R. (95% maximum).....	80-84°C
-------------------------	---------

Maximum limit of impurities(%)

Non-volatile Cpds.....	0.005
------------------------	-------

Pack Size: 500mL

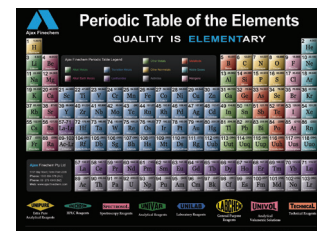
**N-Propanol** (See Propan-1-ol Page 367 )

**2-Propanone** (See Acetone Page 23 )

**4-Propenylanisole** ((See trans-Anethole Page 62 )

# Ajax Periodic Table

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## Propionaldehyde

CAS 123-38-6  
Synonym: Propanal  
 $C_3H_6O = 58.08$

U.N Number.....1275  
ADG Class.....3  
Packing Group.....II



### 714 Propionaldehyde LABCHEM

Assay (GC).....>98%  
Density @ 20°C.....0.798 – 0.803

Maximum limit of impurities(%)  
H<sub>2</sub>O..... 2

Pack Size: 500 mL

## Propionic Acid

CAS 79-09-4  
 $C_2H_5COOH = 74.08$

U.N Number.....1848  
ADG Class.....8  
Packing Group.....III



### 693 Propionic Acid UNILAB

Density.....about 0.99g/mL  
Assay.....99.5% min.

Maximum limit of impurities(%)  
Water..... 0.1

Pack Size: 500mL, 2.5L, 20L

## Iso-Propyl Acetate

CAS 108-21-4  
 $CH_3COOCH(CH_3)_2 = 102.13$

U.N Number.....1220  
ADG Class.....3  
Packing Group.....II



### 2403 Iso-Propyl Acetate UNILAB

Density.....about 0.87g/mL  
Assay.....97.0% min.

Maximum limit of impurities(%)  
Non-vol..... 0.01                      Acidity (as CH<sub>3</sub>COOH)..... 0.03

Pack Size: 500ML

2-Propyl Acetate (See Iso-Propyl Acetate Page 370 )

## Pumice Stone

### 2446 Pumice Stone 5-10 MM

LABCHEM

Pack Size: 500g

PVP (See Polyvinyl Pyrrolidone Page 339 )

## Pyridine

CAS 110-86-1  
C<sub>5</sub>H<sub>5</sub>N = 79.10

U.N Number.....1282  
ADG Class.....3  
Packing Group.....II



### 430 Pyridine

UNIVAR

**Description:** clear liquid with a characteristic odour.  
Assay.....99.0% min.

Maximum limit of impurities(%)

R.A.E..... 0.002  
Sol. (in H<sub>2</sub>O)..... To pass test  
Cl..... 0.001  
SO<sub>4</sub>..... 0.001

Cu..... 0.0005  
NH<sub>3</sub>..... 0.002  
Reducing substances..... To pass test  
H<sub>2</sub>O..... 0.1

Conforms to ACS

Pack Size: 500mL, 2.5L, 20L

### 431 Pyridine

UNILAB

Density.....about 0.98g/mL  
R.I.....about 1.510  
Assay.....99% min.

Maximum limit of impurities(%)

Non-vol..... 0.01

H<sub>2</sub>O..... 0.5

Pack Size: 500mL, 2.5L, 20L

## Pyridoxine Hydrochloride

CAS 58-56-0

**Synonyms:** Adermine hydrochloride; Vitamin B6

C<sub>8</sub>H<sub>11</sub>NO<sub>3</sub>.HCl = 205.64

### 3111 Pyridoxine Hydrochloride For Biochemistry

LABCHEM

Assay.....99.5% min.  
M.P.....202 - 206°C

Maximum limit of impurities(%)

L.O.D..... 0.2

Pack Size: 10g

## 1-(2-Pyridylazo)-2-Naphthol

CAS 85-85-8  
Synonyms: PAN  
 $C_{15}H_{11}N_3O = 249.27$

3112

**1-(2-Pyridylazo)-2-Naphthol** Metal indicator (Reagent for complexometric titration, Reagent for complexometric determination of vanadium)

LABCHEM

Assay.....99%  
M.P. ....137 – 140°C

Pack Size: 5g

## 4-(2-Pyridylazo)-Resorcinol

CAS 16593-81-0  
Synonyms: PAR indicator Colorimetric reagent for cobalt, lead and uranium  
 $C_{11}H_8N_3Na_2 \cdot H_2O = 255.21$

3113

**4-(2-Pyridylazo)-Resorcinol** Monosodium salt Hydrate

LABCHEM

Assay.....99% min.

Pack Size: 1g

## Pyrogallol, Crystals

CAS 87-66-1  
 $C_6H_3(OH)_3 = 126.11$

1191

**Pyrogallol, Crystals**

UNIVAR

Description: dense, white crystals.

M.R. (2°C range).....131 - 135°C

Maximum limit of impurities(%)

R.A.I. .... 0.005

Cl. .... 0.001

SO<sub>4</sub>..... 0.005

H.M. (as Pb)..... 0.0005

Fe..... 0.001

Protect from light

Conforms to ACS

Pack Size: 100g

# Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.





## Pyronine Y

CAS 92-32-0  
 $C_{17}H_{19}N_2OCl = 302.8$

### 3257 Pyronine Y (C.I. 45005)

LABCHEM

**Description:** lustrous green crystals  
 Absorption maximum (in 50% Ethanol).....546nm

Maximum limit of impurities(%)  
 L.O.D..... 4.5

Pack size: 25g

**1-Pyrrolidinedithiocarboxylic Acid** (See Ammonium Pyrrolidine Dithiocarbamate Page 59 )

**Pyruvic Acid Sodium Salt** (See Sodium Pyruvate Page 422 )

## Quinhydrone

CAS 106-34-3  
 $C_6H_4O_2 \cdot C_6H_4(OH)_2 = 218.21$

U.N Number.....2811  
 ADG Class.....6.1  
 Packing Group.....III



### 1192 Quinhydrone

UNIVAR

**Description:** lustrous dark green crystalline powder.  
 Suitable for pH determination.

M.P. ....168-172°C  
 1,4 Benzoquinone.....48-52%  
 Hydroquinone.....48-52%

Maximum limit of impurities(%)  
 Sulph. ash..... 0.2  
 Iron..... 0.001

Sulphate..... 0.02

Pack Size: 100g

## Quinol

CAS 123-31-9  
 $C_6H_4(OH)_2 = 110.11$

### 261 Quinol

UNILAB

M.P. ....171°C

Maximum limit of impurities(%)  
 Sulph. ash..... 0.1  
 Fe..... 0.001

H.M. (as Pb)..... 0.001  
 $H_2O$ ..... 1.0

Pack Size: 500g, 5kg

## Quinoline

CAS 91-22-5  
C<sub>9</sub>H<sub>7</sub>N = 129.16

U.N Number.....2656  
ADG Class.....6.1  
Packing Group.....III



### 1194 Quinoline

UNILAB

**Description:**Hydroscopic liquid. Darkens on storage in ordinary stoppered bottle. Penetrating odour, not as offensive as pyridine. Protect from light and moisture.

Assay.....96% min.  
Density (@ 20°C).....about 1.09g/mL

Pack Size: 500mL

8-Quinolinol (See 8-Hydroxyquinoline Page 235 )

Quinone (See P-Benzoquinone Page 84 )

## Rankin Indicator Solution For Sulphur Dioxide

U.N Number.....1170  
ADG Class.....3  
Packing Group.....III



### 1868 Rankin Indicator Solution For Sulphur Dioxide

LABCHEM

Methylene Blue and Methyl Red in Ethanol (45%)

Pack Size: 100mL

## Rapid Test Sticks

### 2421 Rapid Ammonium Test Sticks

AJAX

For semi-quantitative determination of Ammonium in solutions.

Range:.....10-400mg/L NH<sub>4</sub><sup>+</sup>  
Gradation:.....0-10-25-50-100-200-400 mg/L NH<sub>4</sub><sup>+</sup>  
Colour Change:.....Yellow to orange

Pack Size: 100

### 2424 Rapid Chromate Test Sticks

AJAX

For semi-quantitative determination of Chromate in solutions.

Range:.....3-100mg/L CrO<sub>4</sub><sup>2-</sup>  
Gradation:.....0-3-10-30-100 mg/L CrO<sub>4</sub><sup>2-</sup>  
Colour Change:.....white to violet

Pack Size: 100

### 2425 Rapid Copper Test Sticks

AJAX

For semi-quantitative determination of Copper in solutions.

Range:.....10-300mg/L Cu<sup>+</sup>/Cu<sub>2</sub><sup>+</sup>  
Gradation:.....0-10-30-100-300 mg/L Cu<sup>+</sup>/Cu<sub>2</sub><sup>+</sup>  
Colour Change:.....white to red-violet

Pack Size: 100

**2426 Rapid Cyanide Test Sticks** AJAX

For semi-quantitative determination of Cyanide in solutions.

Range:.....1-30mg/L CN<sup>-</sup>

Gradation:.....0-1-3-10-30 mg/L CN<sup>-</sup>

Colour Change:.....white to red-violet

Pack Size: 100

**2423 Rapid Molybdenum Test Sticks** AJAX

For semi-quantitative determination of Molybdenum in solutions.

Range:.....5-250mg/L Mo<sub>6</sub><sup>+</sup>

Gradation:.....0-5-20-100-250 mg/L Mo<sub>6</sub><sup>+</sup>

Colour Change:.....white to green

Pack Size: 100

**2432 Rapid Nitrate/Nitrite Test Sticks** AJAX

For semi-quantitative determination of Sulphite in solutions.

Range:.....10-5000mg/L NO<sub>3</sub><sup>-</sup>

Gradation:.....0-10-25-50-100-250-500mg/L NO<sub>3</sub><sup>-</sup>

Range:.....1-80mg/L NO<sub>2</sub><sup>-</sup>

Gradation:.....0-1-5-10-20-40-80 mg/L NO<sub>3</sub><sup>-</sup>

Colour Change:.....white to red-violet

Pack Size: 100

**2418 Rapid Nitrite 3000 Test Sticks** AJAX

For semi-quantitative determination of high concentrations of Nitrite in solutions.

Range.....0.1-3g/L NO<sub>2</sub><sup>-</sup>

Gradation:.....0-0.1-0.3-0.6-1-2-3g/L NO<sub>2</sub><sup>-</sup>

Colour Change:.....Yellow to red

Pack Size: 100

**2419 Rapid Nitrite Test Sticks** AJAX

For semi-quantitative determination of Nitrite in solutions.

Range.....1-80mg/L NO<sub>2</sub><sup>-</sup>

Gradation:.....0-1-5-10-20-40-80mg/L NO<sub>2</sub><sup>-</sup>

Colour Change:.....white to red-violet

Pack Size: 100

**2429 Rapid Peroxide 100 Test Sticks** AJAX

For semi-quantitative determination of Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) and peroxides in solutions.

Range:.....1-100mg/L H<sub>2</sub>O<sub>2</sub>

Gradation:.....0-1-3-10-30-100 mg/L H<sub>2</sub>O<sub>2</sub>

Colour Change:.....white to blue

Pack Size: 100

**2420 Rapid Sulphite Test Sticks** AJAX

For semi-quantitative determination of Sulphite in solutions.

Range:.....10-1000mg/L SO<sub>3</sub><sup>-</sup>

Gradation:.....0-10-25-50-100-250-500-1000 mg/L SO<sub>3</sub><sup>-</sup>

Colour Change:.....white to salmon

Pack Size: 100

## 2422 Rapid Zinc Test Sticks

AJAX

For semi-quantitative determination of Zinc (Zn<sup>2+</sup>) in solutions.

Range:.....2-100mg/L Zn<sup>2+</sup>

Gradation:.....0-2-5-10-25-50 mg/L Zn<sup>2+</sup>

Colour Change:.....orange to red

Pack Size: 100

Red Lead (See Lead Oxide Red Lead Page 255 )

## Resorcinol

CAS 108-46-3  
C<sub>6</sub>H<sub>4</sub>(OH)<sub>2</sub> = 110.10

U.N Number.....2876

ADG Class.....6.1

Packing Group.....III



## 1196 Resorcinol

UNIVAR

**Description:** colourless crystals or crystalline powder; becoming red on exposure to air and light.

Assay.....99.0% min.

M.P. ....109 – 111°C

Maximum limit of impurities(%)

L.O.D. ....1

Sulph. ash. ....0.02

Free acid (as H<sub>2</sub>SO<sub>4</sub>).....0.005

Free alkali (as NH<sub>3</sub>).....0.002

H.M (as Pb).....0.004

Cl.....0.008

SO<sub>4</sub>.....0.02

Pyrocatechol.....To pass test

Pack Size: 100g

## 1197 Resorcinol

UNILAB

**Description:** colourless or slightly pinkish-grey crystals or crystalline powder; odour, characteristic. Turns red on exposure to light and air.

Assay (after drying).....98.5 - 101.0%

M.P. ....109-112°C

Maximum limit of impurities(%)

Clarity and colour of soln.....To pass test

Pyrocatechol.....To pass test

L.O.D. ....1.0

Sulphated ash.....0.1

Acidity/Alkalinity.....To pass test

Pack Size: 100g, 500g

Rochelle Salt (See Potassium Sodium Tartrate Page 363 )

## Rhodamine B (CI 45170)

CAS 81-88-9  
C<sub>28</sub>H<sub>31</sub>N<sub>2</sub>O<sub>3</sub>Cl = 479.03

## 2336 Rhodamine B (CI 45170)

LABCHEM

Reagent for antimony, gallium, gold and tungsten.

Pack Size: 25g

## Rose Bengal

CAS 632-69-9  
 $C_{20}H_2Cl_4I_4Na_2O_5 = 1017.6$

### 3258 Rose Bengal

LABCHEM

Description: Bright pink coloured crystalline powder  
 Solubility: Soluble in water.  
 Dye content.....about 90%

Pack size: 25g

Rubeanic Acid (See Dithio-Oxamide Page 188 )

## Rubidium Chloride

CAS 7791-11-9  
 RbCl = 120.92

### 3118 Rubidium Chloride

OP

Pack Size: 10g

Rubin S (See Fuchsin Acid Page 210 )

Rubine Acid (See Fuchsin Acid Page 210 )

## Ruthenium Trichloride

CAS 13815-94-6  
 $RuCl_3 \cdot 3H_2O = 207.43$

U.N Number.....3260  
 ADG Class.....8  
 Packing Group.....II



### 3120 Ruthenium Trichloride (Used as catalyst in ruthenium tetraoxide catalysed oxidations)

LABCHEM

Ru Content.....39% min.

Pack Size: 1g

Saltpetre (See Potassium Nitrate Page 358 )

## Safranin O (CI 50240)

CAS 477-73-6

### 3260 Safranin O (CI 50240)

OP

Stain for microscopy. Redox indicator.  
 Transition EMF (@ pH=0).....+0.24 V  
 Transition EMF (@ pH=7).....-0.29 V  
 Colour change:  
 Oxidized (purple) to reduced (colourless) @pH=0  
 Oxidized (brown) to reduced (colourless) @pH=7

Pack Size: 25g

**1847** **Safranin Stain Solution** LABCHEM

Safranin 1% aqueous solution

Pack Size: 1L, 5L

## Safsolvent, For Histopathology

CAS 5989-27-5

**2537** **Safsolvent, For Histopathology** LABCHEM

A safer alternative to xylene, for removing embedding media etc.

Density @ 20°C.....0.838 - 0.844g/mL

R.I @ 20°C.....1.471 - 1.474

Pack Size: 5L, 20L, 200L

## Salicin For Microbiology

CAS 138-52-3

$C_{13}H_{18}O_7 = 286.28$

**3121** **Salicin** LABCHEM

Assay.....99% min.

Microbiological test.....To pass test

Pack Size: 10g

## Salicylaldoxime

CAS 94-67-7

$C_7H_7NO_2 = 137.14$

**442** **Salicylaldoxime (Reagent For Copper And Palladium)** LABCHEM

Assay.....98% min.

M.P. ....57 - 59°C

Pack Size: 25g

## Salicylanilide

CAS 87-17-2

$HOC_6H_4CONHC_6H_5 = 213.24$

**429** **Salicylanilide** TECHNICAL

Pack Size: 500g

# Coatasil

Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Salicylic Acid

CAS 69-72-7  
 $\text{HOC}_6\text{H}_4\text{COOH} = 138.12$

### 1198 Salicylic Acid UNIVAR

**Description:** fine colourless crystals.

Assay.....99.5% min.  
 M.P. ....158.0 - 161.0°C

Maximum limit of impurities(%)

R.A.I..... 0.01  
 Cl..... 0.001  
 SO<sub>4</sub>..... 0.003  
 Fe..... 0.0002

H.M. (as Pb)..... 0.0005  
 Subs. darkened by H<sub>2</sub>SO<sub>4</sub>..... To pass test  
 Colour & Clarity..... To pass test

Conforms to ACS

Pack Size: 500g, 5kg

### 435 Salicylic Acid UNILAB

**Description:** colourless acicular crystals or white crystalline powder; odourless.

Assay.....99.5 - 100.5%  
 M.P. ....158-161°C  
 L.O.D. ....0.5% max.

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test  
 Sulph. ash..... 0.1  
 Cl..... 0.010

SO<sub>4</sub>..... 0.020  
 H.M. (as Pb)..... 0.0020

Pack Size: 500g, 5kg, 25kg

**Salicylic Acid Sodium Salt** (See Sodium Salicylate Page 422 )

**Salicylsulphonic Acid** (See Sulphosalicylic Acid Page 438 )

**Salol** (See Phenyl Salicylate Page 333 )

**Salt Common** (See Sodium Chloride Page 398 )

## Sand

### 1199 Sand, Acid Washed UNILAB

Maximum limit of impurities(%)

HCl soluble matter..... 0.2  
 Loss on ignition @ 800 Deg C..... 0.2  
 Chloride (Cl)..... 0.015

Pack Size: 1kg, 3kg, 5kg, 25kg

## Saponin White

CAS 8047-15-2

### 764 Saponin White

UNILAB

Description: Natural origin.

Pack Size: 100g

## Scarlet R (CI 26105)

CAS 85-83-6

### 3261 Scarlet R (CI 26105)

OP

Stain for microscopy.  
Lipoprotein stain.

Pack Size: 25g

## Schiff's Reagent

### 1848 Schiff's Reagent

LABCHEM

Contains Fuchsin Basic 0.5%

Pack Size: 500mL

## Sebacoyl Chloride

CAS 111-19-3  
 $\text{COCl}(\text{CH}_2)_8\text{COCl} = 239.14$

U.N Number.....1760  
ADG Class.....8  
Packing Group.....II



### 2371 Sebacoyl Chloride

LABCHEM

Density.....about 1.12g/mL  
Assay.....90% min.  
Store below 4°C (refrigerate)

Pack Size: 100mL

### 2487 Sebacoyl Chloride

Technical

Density.....about 1.12g/mL  
Store below 4°C (refrigerate)

Pack Size: 100mL

**Selenious Acid** (See Selenous Acid Page 382 )



## Selenium 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....II



### 2664 Selenium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Selenium standard, ready for use.  
 Se in 10% Nitric acid.

Pack Size: 100mL

## Selenium AAS Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....II



### 2594 Selenium AAS Standard

SPECTROSOL

A 1000 ppm Selenium standard, ready for use.  
 Each ml contains 1.00+/-0.005mg of Se in 10% Nitric acid.

Pack Size: 500mL

## Selenium Powder

CAS 7782-49-2  
 Se = 78.96

U.N Number.....3283  
 ADG Class.....6.1  
 Packing Group.....III



### 761 Selenium Powder

UNIVAR

**Description:** dark red to black powder.  
 Assay.....99.5% min.

Maximum limit of impurities(%)

R.A.I. ....	0.5
Insol (in Nitric Acid).....	0.05
N cpds (as N).....	0.01
S cpds (as S).....	0.05

Cu.....	0.01
Fe.....	0.05
Pb.....	0.05

Pack Size: 25g, 100g

### 1590 Selenium Powder

UNILAB

Assay.....99.0% min.

Pack Size: 100g

## Selenium Metal Pellets 99.999%

CAS 7782-49-2  
Se = 78.96

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



### 441 Selenium Metal Pellets 99.999% (Electronic grade)

LABCHEM

Pack Size: 100g

## Selenium Dioxide

CAS 7446-08-4  
SeO<sub>2</sub> = 110.96

U.N Number.....3283  
ADG Class.....6.1  
Packing Group.....I



### 1200 Selenium Dioxide

UNILAB

Assay(after drying).....97.0% min

Pack Size: 100g

## Selenous Acid

CAS 7783-00-8  
H<sub>2</sub>SeO<sub>3</sub> = 128.97

U.N Number.....2630  
ADG Class.....6  
Packing Group.....I



### 436 Selenous Acid

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

SO<sub>4</sub>.....0.1

Pack Size: 100 g

## Semicarbazide Hydrochloride

CAS 563-41-7  
CH<sub>6</sub>CIN<sub>3</sub>O = 111.53

### 437 Semicarbazide Hydrochloride (For Detection Of Aldehydes And Ketones)

UNIVAR

Assay.....99.5% min.

M.P. (decomposition).....174 – 178°C

Maximum limit of impurities(%)

Substances insoluble.....0.02

Hydrazine (N<sub>2</sub>H<sub>4</sub>).....0.01

Alcohol (GC).....0.01

Sulphated ash.....0.02

Pack Size: 100g

## L-Serine

CAS 56-45-1  
 $C_3H_7NO_3 = 105.1$

### 2033 L-Serine UNIVAR

**Description:** white crystalline powder

Assay.....99.0% min.

Specific rotation.....+13.5 to 16°

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.002

As..... 0.0003

L.O.D..... 0.3

Pb..... 0.001

R.O.I..... 0.1

**Pack size:** 25g

**Sextone** (See Cyclohexanone Page 163 )

## Silica Gel

CAS 63231-67-4

### 3694 Silica Gel (Grade 923) LABCHEM

Typical bead size.....0.074 – 0.149mm

**Description:** Grade 923, 75-150 micron, is a white powder consisting of synthetic amorphous silica and is normally 100 - 200mesh.

**Application:** Grade 923 meets ASTM D1319 specifications for hydrocarbon analysis and meets ASTM D2549 specification for aromatics analysis.

Suitable for column chromatography.

**Pack Size:** 1Kg

### 1454 Silica Gel 230-400 Mesh (40-63 Microns) LABCHEM

Typical bead size.....0.038 - 0.068mm

Pore Size.....about 60Å

Pore volume.....about 0.75mL/g

Specific Surface BET.....about 450m<sup>2</sup>/g

Suitable for column Chromatography

**Pack Size:** 1Kg, 2.5Kg, 5Kg, 25Kg

### 1455 Silica Gel Grade 60-200 Mesh LABCHEM

Typical bead size.....0.06-0.1mm

Grade Davison 923. testing of petroleum products. Suitable for column chromatography.

**Pack Size:** 500g

### 1453 Silica Gel Grade 12, 28-200mesh LABCHEM

Suitable for chromatography.

Manufactured by W.R. Grace & Co. U.S.A.

Typical bead size.....0.075 - 0.60mm

**Pack Size:** 500g, 2kg

**840** **Silica Gel, 4-6 Mesh, Self-Indicating** LABCHEM

Typical bead size.....3-5mm  
Self indicating properties: Blue = active Pink = exhausted

Pack Size: 500g, 3kg, 5kg

**1511** **Silica Gel, 5-10 Mesh, Self Indicating Blue** LABCHEM

Typical bead size.....2-4mm  
Self indicating properties: Blue = active Pink = exhausted

Pack Size: 500g, 3kg, 5kg, 12.5kg

**1510** **Silica Gel, 5-10 MESH, Self Indicating, Blue** LABCHEM

Self indicating properties: Blue = active Pink = exhausted

Pack Size: 500g, 3kg, 5kg, 12.5kg

**8745** **Silica Gel, Self-Indicating, Orange** LABCHEM

Contains an organic indicator that changes colour from orange to dark blue-green after absorbing moisture.  
Typical bead size.....2-5mm

Pack Size: 500g, 1Kg, 3kg, 5kg, and 25Kg

**1456** **Silica Gel, Self Indicating Sachets** LABCHEM

Useful for preservation of moisture-sensitive products. Blue beads turn pink when exhausted.  
10g sachets

Pack Size: 500g

**Silica**

CAS 7631-86-9  
SiO<sub>2</sub> = 60.09

**438** **Silica Pure Precipitated** LABCHEM

Appearance: Almost white powder  
Assay.....98% min.  
Density approx.....0.2g/mL  
Particle size - residue on 18 nm.....10-50%  
pH (5%).....5-7

Maximum limit of impurities(%)  
L.O.D.@ 105°C.....4-7                      L.O.I.@ 1000°C.....5

Pack Size: 500g

# Coatasil

## Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Silicon 1000ppm Single Element ICP Standard

U.N Number.....1760  
 ADG Class.....8  
 Packing Group.....III



### 2665 Silicon 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Silicon standard, ready for use.  
 Si in distilled water.

Pack Size: 100mL

### 2622 Silicon AAS Standard SPECTROSOL

A 1000 ppm Silicon standard, ready for use.  
 Each mL contains 1.00+/-0.005 mg of Si

Pack Size: 500mL

### 1407 Silicone Oil, 200Fluid, 100CS LABCHEM

Water clear Dimethylsiloxane polymeric fluid.  
 Uses: mechanical fluid, lubricant, damping and insulating agent, mould release, cosmetics, antifoams, polishes etc.  
 Service range.....- 40 – 204°C

Pack Size: 20 Kg

### 1403 Silicone Oli, 200Fluid, 350CS LABCHEM

Water clear Dimethylsiloxane polymeric fluid.  
 Uses: mechanical fluid, lubricant, damping and insulating agent, mould release, cosmetics, antifoams, polishes etc.  
 Service range.....- 40 – 204°C

Pack Size: 500mL

**Silicone Antifoaming Agent** (See Antifoam Silicone Liquid Page 67 )

**Silicone Glass Treatment Solution** (See Coatasil Glass Treatment Soln Page 148 )

## Silver 1000ppm Single Element ICP Standard

U.N Number.....3193  
 ADG Class.....5.1  
 Packing Group.....III



### 2647 Silver 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Silver standard, ready for use.  
 Ag in 0.5% Nitric acid.

Pack Size: 100mL

### 2623 Silver AAS Standard SPECTROSOL

A 1000 ppm Silver standard, ready for use. Each mL contains 1.00 +/-0.005mg of Ag in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

## Silver Acetate

CAS 563-63-3  
CH<sub>3</sub>COOAg = 166.91

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



### 440 Silver Acetate

UNILAB

Assay.....98% min.

Pack Size: 100g

## Silver Carbonate

CAS 534-16-7  
Ag<sub>2</sub>CO<sub>3</sub> = 275.75

### 439 Silver Carbonate

UNILAB

Assay.....99% min.

Maximum limit of impurities(%)

Cl.....0.005  
NO<sub>3</sub>.....0.05  
As.....0.0001

Pb.....0.003  
Fe.....0.002  
L.O.D. @ 105°C.....0.2

Pack Size: 25g

## Silver Chloride

CAS 7783-90-6  
AgCl = 143.32

### 445 Silver Chloride

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

Fe.....0.003  
Cu.....0.003

Pb.....0.003  
Ni.....0.003

Pack Size: 25g

## Silver Diethyl Dithiocarbamate

CAS 1470-61-7  
Synonyms: DECT; Diethyldithiocarbamic acid silver salt  
C<sub>5</sub>H<sub>10</sub>NS<sub>2</sub>Ag = 256.14

### 3124 Silver Diethyl Dithiocarbamate (Reagent for the spectrophotometric determination of As and Sb)

LABCHEM

Solution in pyridine  
Sensitivity as reagent for As

To pass test  
To pass test

Pack Size: 5g

## Silver Iodide

CAS 7783-96-2  
AgI = 234.77

448

### Silver Iodide

LABCHEM

Assay.....99.8% min.

Maximum limit of impurities(%)

Cd.....	0.001	Al.....	0.0005
Mn.....	0.001	Si.....	0.001
Mg.....	0.001	Fe.....	0.005
Sn.....	0.0005	Cu.....	0.005

Protect from light

Pack Size: 25g, 100g, 5kg

## Silver Nitrate

CAS 7761-88-8  
AgNO<sub>3</sub> = 169.87

U.N Number.....1493  
ADG Class.....5.1  
Packing Group.....II



1807

### Silver Nitrate, Certified Reference Standard

UNIPURE

Assay (Arg.)(after drying with H<sub>2</sub>SO<sub>4</sub>)...99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in H <sub>2</sub> O.....	0.003	Ca.....	0.001
Insoluble matter in C <sub>2</sub> H <sub>5</sub> OH	To pass test	Cu.....	0.0002
Non-precipit. subst. by HCl.....	0.01	Fe.....	0.0002
Acidity	To pass test	Mg.....	0.001
Cl.....	0.0005	K.....	0.01
SO <sub>4</sub> .....	0.002	Na.....	0.002
Bi.....	0.0005	Pb.....	0.001

Pack Size: 100g

449

### Silver Nitrate

UNIVAR

**Description:** colourless crystals which become grey or black if exposed to light.

Assay.....99.0% min

Maximum limit of impurities(%)

Clarity of solution	To pass test		
Free acid	To pass test	Cu.....	0.0002
Subs. not ppt. by HCl.....	0.01	Fe.....	0.0002
Cl.....	0.0005	Pb.....	0.001
SO <sub>4</sub> .....	0.002		

Conforms to ACS

Protect from light.

Pack Size: 25g, 100g, 250g, 500g

**631 Silver Nitrate** UNILAB

**Description:** colourless, transparent crystals or white, crystalline powder; odourless.  
 Assay.....99.0 - 100.5%

Maximum limit of impurities(%)

Acidity or alkalinity.....	To pass test	Pb.....	To pass test
Clarity and colour of soln.....	To pass test	Cu.....	To pass test
Foreign salts.....	0.3	Bi.....	To pass test
Al.....	To pass test		

Chemical and physical parameters conform to BP  
 Protect from light

Pack Size: 25g, 100g, 250g, 500g

**948 Silver Nitrate** LABCHEM

Assay.....98.0% min.

Maximum limit of impurities(%)

Foreign salts..... 0.5

Protect from light

Pack Size: 25g, 100g

**Silver Nitrate 0.0282M Solution**

U.N Number.....3139  
 ADG Class.....5.1  
 Packing Group.....III



**2397 Silver Nitrate 0.0282M Solution** UNIVOL

Molarity (normality).....0.0279 - 0.0285

Pack Size: 2.5L

**2399 Silver Nitrate 0.05M Solution** UNIVOL

Molarity (normality)..... 0.0497 - 0.0503M

Pack Size: 5L

**640 Silver Nitrate 0.100M Solution** UNIVOL

For the volumetric quantitative determination of halides.  
 Molarity (normality).....0.0995 - 0.1005 mol/L

Pack Size: 500mL, 2.5L

**1376 Silver Nitrate 0.1MOL Concentrate, Ampoule** OP

**Description:** plastic ampoule containing clear colourless liquid  
 0.1 mole (16.987g AgNO<sub>3</sub>) to prepare 1L of 0.1N solution  
 Molarity.....0.0998 - 0.1002 mol/L

Pack size: Ampoule



## Silver Nitrite

CAS 7783-99-5  
AgNO<sub>2</sub> = 153.88

U.N Number.....1479  
ADG Class.....5.1  
Packing Group.....II



**718**

Silver Nitrite

LABCHEM

Pack Size: 25g

## Silver Oxide

CAS 20667-12-3  
Ag<sub>2</sub>O = 231.74

U.N Number.....1479  
ADG Class.....5.1  
Packing Group.....III



**451**

Silver Oxide

LABCHEM

Pack Size: 25g

## Silver Sulphate

CAS 10294-26-5  
Ag<sub>2</sub>SO<sub>4</sub> = 311.80

**2450**

Silver Sulphate

UNIVAR

**Description:** white crystalline powder, darkening on exposure to light.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol..... 0.02

Fe..... 0.001

NO<sub>3</sub>..... 0.1

Subs. not precipitated by HCl..... 0.03

Pack Size: 25g, 100g, 1kg

**1202**

Silver Sulphate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.04

Fe..... 0.005

Pack Size: 25g, 100g

**Soda Ash** (See Sodium Carbonate Anhydrous Page 395 )

**1206**

Soda Lime Self Indicating 4-8 Mesh

LABCHEM

Colour change: off-white(active)-violet (exhausted).

For removal of carbon dioxide when installed in columns/canisters to protect products from CO<sub>2</sub> absorption.

Pack Size: 500g, 5kg

## Sodium 100ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....III



### 2648 Sodium 100ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Sodium standard, ready for use.  
 Na in 0.5% Nitric acid.

Pack Size: 100mL

### 2600 Sodium AAS Standard

SPECTROSOL

A 1000 ppm Sodium standard, ready for use. Each mL contains 1.00 +/-0.005mg of Na in 0.5% nitric acid. Traceable to NIST

Pack Size: 500mL

## Sodium, Metal, Lumps

CAS 7440-23-5  
 Na = 22.99

U.N Number.....1428  
 ADG Class.....4.3  
 Packing Group.....I



### 3126 Sodium, Metal, Lumps

OP

Assay.....about 99.5%

Maximum limit of impurities(%)

Cl.....0.002  
 Ca.....0.1

K.....0.01

Pack Size: 100g, 500g

## Sodium Acetate, Anhydrous

CAS 127-09-3  
 CH<sub>3</sub>COONa = 82.03

### 679 Sodium Acetate, Anhydrous

UNIVAR

Description: white hygroscopic powder.

Assay.....99.0% min.  
 pH (5% soln. @ 25°C).....7.0 – 9.2

Maximum limit of impurities(%)

Insol.....0.01  
 L.O.D.(@ 120°C).....1.0  
 Cl.....0.002  
 PO<sub>4</sub>.....0.001  
 SO<sub>4</sub>.....0.003  
 Fe.....0.0005  
 Cu.....0.0005

Pb.....0.0005  
 Mg.....0.001  
 H.M. (as Pb).....0.001  
 Al.....0.001  
 Ca.....0.002  
 K.....0.02  
 As.....0.0001

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

680

**Sodium Acetate, Anhydrous**

UNILAB

Assay (after drying @ 120°C).....99.0% min.  
 pH (5% soln. @ 25°C).....7.0 – 9.5

Maximum limit of impurities(%)

L.O.D. (@120°C)..... 2.0  
 Cl..... 0.02  
 SO<sub>4</sub>..... 0.03

H.M. & (as Pb)..... 0.005  
 Fe..... 0.005

Pack Size: 500g, 5kg, 25kg

**Sodium Acetate, Hydrated**

CAS 6131-90-4

CH<sub>3</sub>COONa.3H<sub>2</sub>O = 136.08

456

**Sodium Acetate, Hydrated**

UNIVAR

Description:colourless crystals or crystalline powder

Assay.....99.0 - 101.0%  
 pH (5% soln. @ 25°C).....7.5 – 9.2

Maximum limit of impurities(%)

Insol..... 0.005  
 Cl..... 0.001  
 Ca..... 0.001  
 PO<sub>4</sub>..... 0.0005  
 SO<sub>4</sub>..... 0.002  
 Fe..... 0.0005  
 Al..... 0.0005

Cu..... 0.0005  
 Pb..... 0.0005  
 Mg..... 0.0005  
 H.M. (as Pb)..... 0.0005  
 Subs. reducing KMnO<sub>4</sub> (as O) To pass test  
 K..... 0.005

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 10kg, 25kg

457

**Sodium Acetate, Hydrated**

UNILAB

Assay.....99.0% min.  
 pH (5% soln.).....7.5 – 9.2  
 L.O.D.....36 – 41%

Maximum limit of impurities(%)

Cl..... 0.005  
 SO<sub>4</sub>..... 0.02  
 Fe..... 0.005  
 H.M. (as Pb)..... 0.001

Alkalinity..... 0.05  
 As..... 0.0003  
 Potassium Compounds To pass test

Chemical and physical parameters conform to FCC

Pack Size: 500g, 5kg, 25kg

**Sodium Acid Citrate** (See di-Sodium Hydrogen Citrate Page 407 )

## Sodium Alginate

CAS 9005-38-3

### 1560 Sodium Alginate

TECHNICAL

Aqueous thickener. Particle size (1400 microns) 98% min.  
pH (1%).....5.5 – 8.5  
Viscosity.....2700 – 4000 cps  
Dry Matter.....85-94%

Pack Size: 250g

## Sodium Arsenate,Hydrated

CAS 13464-38-5

$\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$  = 312.01

U.N Number.....1685

ADG Class.....6.1

Packing Group.....II



### 1076 Sodium Arsenate,Hydrated

UNIVAR

Description: white crystals or crystalline powder.  
Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.005

$\text{As}_2\text{O}_3$ ..... 0.01

Cl..... 0.001

$\text{NO}_3$ ..... 0.005

$\text{SO}_4$ ..... 0.01

Fe..... 0.001

H.M. (as Pb)..... 0.002

Conforms to ACS

Pack Size: 500g

## Sodium Arsenite

CAS 7784-46-5

$\text{NaAsO}_2$  = 129.91

U.N Number.....2027

ADG Class.....6.1

Packing Group.....II



### 1211 Sodium Arsenite

UNILAB

Appearance: Off-white to grey. 10% aqueous solution is turbid.  
Assay.....97% min.

Maximum limit of impurities(%)

Insoluble in  $\text{H}_2\text{O}$ ..... 0.01

Cl..... 0.05

Cu..... 0.002

K..... 0.02

Pb..... 0.002

Pack Size: 500g

# HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)

## Sodium Azide

CAS 26628-22-8  
 $\text{NaN}_3 = 65.01$

U.N Number.....1687  
 ADG Class.....6.1  
 Packing Group.....II



### 1222 Sodium Azide

LABCHEM

Assay.....99.0% min.  
 Total Moisture.....0.2% max.  
 Free alkalinity (as NaOH).....0.2% max.

Pack Size: 100g, 500g, 5Kg

## Sodium Benzoate

CAS 532-32-1  
 $\text{C}_6\text{H}_5\text{COONa} = 144.11$

### 459 Sodium Benzoate

UNILAB

**Description:** white, crystalline or granular powder or flakes; slightly hygroscopic.

Assay (after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of solution	To pass test	
Acidity or alkalinity	To pass test	
L.O.D.....	2.0	

Halogenated cpds.(ionic Cl ).....	0.02
Total Chlorine.....	0.03
H.M. (as Pb).....	0.001

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

**Sodium Bicarbonate** (See Sodium Hydrogen Carbonate Page 406 )

**Sodium Bichromate** (See Sodium Dichromate Dihydrate Page 401 )

## Sodium Bismuthate

CAS 12232-99-4  
 $\text{NaBiO}_3 = 279.97$

### 833 Sodium Bismuthate

UNIVAR

**Description:** yellow to brown amorphous powder.

Assay.....80% min.

Maximum limit of impurities(%)

Cl.....	0.002	
Mn.....	0.0005	

$\text{NO}_3$ .....	0.004
---------------------	-------

Pack Size: 100g

### 1223 Sodium Bismuthate

UNILAB

Assay.....80.0% min.

Maximum limit of impurities(%)

Cl.....	0.015	
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Mn.....	0.002
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Pack Size: 500g

## Sodium Bisulphate Monohydrate

CAS 10034-88-5

Synonyms: Sodium hydrogen sulphate (Monohydrate)

$\text{NaHSO}_4 \cdot \text{H}_2\text{O} = 138.07$

U.N Number.....3260

ADG Class.....8

Packing Group.....III



### 444 Sodium Bisulphate Monohydrate

UNIVAR

Assay (acidimetric).....99% min.

Maximum limit of impurities(%)

Cl.....0.001

$\text{PO}_4$ .....0.0005

N.....0.001

Pb.....0.0005

Al.....0.001

Ca.....0.001

Fe.....0.0005

K.....0.002

Mg.....0.0005

Pack Size: 500g

**Sodium Borate** (See Sodium Tetraborate Page 427 )

**Sodium Borofluoride** (See Sodium Fluoborate Page 404 )

## Sodium Borohydride

CAS 16940-66-2

$\text{NaBH}_4 = 37.83$

U.N Number.....1426

ADG Class.....4.3

Packing Group.....I



### 2334 Sodium Borohydride

LABCHEM

Description: Reducing Agent - useful for recovery of metals, in dyeing, organic synthesis.

Typical assay.....97% min.

Pack Size: 25g, 100g, 500g, 5kg

### 2562 Sodium Borohydride Tablets For AAS

LABCHEM

Dimension of tablets approx 11mm diameter & 17.5mm long.

Assay - approx.....97%

Used in AAS hydride determination of arsenic, selenium etc. Traceable to NIST

Pack Size: x 500

## Sodium Bromate

CAS 7789-38-0

$\text{NaBrO}_3 = 150.89$

U.N Number.....1494

ADG Class.....5.1

Packing Group.....II



### 3127 Sodium Bromate

UNILAB

Assay (iodometric).....99% min.

Acidity.....2ml N%

Maximum limit of impurities(%)

Br.....0.02

$\text{SO}_4$ .....0.02

Pack Size: 500g

## Sodium Bromide

CAS 7647-15-6  
NaBr = 102.89

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



462

### Sodium Bromide

UNILAB

Assay (after drying).....99.5% min.  
pH (5%).....6 - 8

Maximum limit of impurities(%)

L.O.D.....0.3  
Alkalinity.....0.4 mmol OH  
BrO<sub>3</sub>.....0.001  
Cl.....0.1  
SO<sub>4</sub>.....0.005  
As.....0.0002

Ba.....0.05  
Fe.....0.0002  
Pb.....0.001  
Hg.....0.000002  
I.....0.01

Pack Size: 500g, 10kg

## Sodium Cacodylate Trihydrate

CAS 6131-99-3  
(CH<sub>3</sub>)<sub>2</sub>AsO<sub>2</sub>Na.3H<sub>2</sub>O = 214.03

U.N Number.....1688  
ADG Class.....6.1  
Packing Group.....II



3151

### Sodium Cacodylate Trihydrate

LABCHEM

Assay.....97% min.

Pack Size: 25g

## Sodium Carbonate, Anhydrous

CAS 497-19-8  
Na<sub>2</sub>CO<sub>3</sub> = 105.99

1808

### Sodium Carbonate Anhydrous, Certified Reference Standard

UNIPURE

Assay (Acidim.) after drying at 120°C...99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in H<sub>2</sub>O.....0.005  
Reducing substances I<sub>2</sub>.....0.005  
Nitrogen cpds (as N).....0.001  
Sulphur cpds (as SO<sub>4</sub>).....0.003  
Cl.....0.001  
PO<sub>4</sub>.....0.001  
SiO<sub>2</sub>.....0.005  
H.M. (as Pb).....0.0005  
Al.....0.001

As.....0.0001  
Ca.....0.005  
Cu.....0.0005  
Fe.....0.0005  
K.....0.005  
Mg.....0.002  
Ni.....0.0005  
Pb.....0.0005

Pack Size: 100g

463

## Sodium Carbonate Anhydrous

UNIVAR

**Description:** white, hygroscopic slightly granular powder.  
Assay(after drying @ 285°C).....99.8% min

Maximum limit of impurities(%)

Insol.....	0.01	Fe.....	0.0005
L.O.D. (@285 Deg C).....	1.0	Pb.....	0.0005
Cl.....	0.001	H.M. (as Pb).....	0.0005
PO <sub>4</sub> .....	0.001	As.....	0.0001
Al.....	0.001	Alkali hydroxides & bicarb.	To pass test
N cpds (as N).....	0.001	Clarity & colour of solution	To pass test
SiO <sub>2</sub> .....	0.005	K.....	0.005
Ca.....	0.01	Mg.....	0.005
S cpds (as SO <sub>4</sub> ).....	0.003	Ammonium Hydroxide Pptes.....	0.01
Cu.....	0.0005		

Conforms to ACS

Pack Size: 500g, 1.5kg, 5kg, 25kg

464

## Sodium Carbonate Anhydrous

UNILAB

A white or almost white,slightly granular powder; hygroscopic.  
Assay(after drying @ 300°C).....99.5 – 100.5%

Maximum limit of impurities(%)

Clarity & colour of sol.....	To pass test	Fe.....	0.005
L.O.D. (@285°C).....	1.0	H.M. (as Pb).....	0.005
Cl.....	0.0125	Alkali hydroxide & bicarbonate	To pass test
SO <sub>4</sub> .....	0.025		
As.....	0.0005		

Pack Size: 500g, 5kg, 25kg

## Sodium Carbonate,Decahydrate

CAS 6132-02-1

Na<sub>2</sub>CO<sub>3</sub>.10H<sub>2</sub>O = 286.15

1224

## Sodium Carbonate,Decahydrate

UNIVAR

**Description:** moist, colourless crystals.

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Cl.....	0.001	As.....	0.00005
N cpds (as N).....	0.0005	Fe.....	0.0002
PO <sub>4</sub> .....	0.001	H.M. (as Pb).....	0.0005
SiO <sub>2</sub> .....	0.001	K.....	0.005
S cpds (as SO <sub>4</sub> ).....	0.002		

Store below 25°C

Pack Size: 500g



**1225 Sodium Carbonate, Decahydrate**

UNILAB

**Description:** Colourless, transparent crystals or a white, crystalline powder; odourless; efflorescent.  
 Assay (as Na<sub>2</sub>CO<sub>3</sub>)..... 36.7 - 40.0%

Maximum limit of impurities(%)

Clarity & colour of sol.	To pass test	
Alkali hydroxide & bicarbonate	To pass test	Fe..... 0.002
Cl..... 0.005		H.M.(as Pb)..... 0.002
SO <sub>4</sub> ..... 0.01		As..... 0.0002

Chemical and physical parameters conform to BP  
 Store below 25°C

Pack Size: 1kg, 5kg

**Sodium Carbonate, Monohydrate**

CAS 5968-11-6  
 Na<sub>2</sub>CO<sub>3</sub>.H<sub>2</sub>O = 124.01

**3616 Sodium Carbonate, Monohydrate**

UNIVAR

**Description:** white crystalline powder  
 Assay.....99.5 – 100.5%

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001	
As..... 0.0002	K..... 0.04
Cl..... 0.005	L.O.D..... 12 - 15
Cu..... 0.001	Total Sulphur (as SO <sub>4</sub> )..... 0.005

Pack size: 500g, 5Kg

**Sodium Chlorate**

CAS 7775-09-9  
 NaClO<sub>3</sub> = 106.44

U.N Number.....1495  
 ADG Class.....5.1  
 Packing Group.....II



**1520 Sodium Chlorate**

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl..... 0.050	
SO <sub>4</sub> ..... 0.005	Fe..... 0.0010
H.M. (as Pb)..... 0.002	K..... 0.005
Ca..... 0.005	Total N..... 0.001

Pack Size: 500g, 5kg

## Sodium Chloride

CAS 7647-14-5  
NaCl = 58.44

### 1809 Sodium Chloride, Certified Reference Standard

UNIPURE

Assay (Arg.) after drying at 110°C.....99.95 – 100.05%  
pH (5% soln.).....5.0 - 8.0

Maximum limit of impurities(%)

Insoluble matter in H<sub>2</sub>O..... 0.005  
Nitrogen cpds (as N)..... 0.001  
Br..... 0.01  
Chlorate and nitrate (as NO<sub>3</sub>)..... 0.003  
Hexacyanoferrate (II) & (III) (Fe(CN<sub>6</sub>))..... 0.0001  
PO<sub>4</sub>..... 0.0005  
SO<sub>4</sub>..... 0.001  
I..... 0.002  
H.M. (as Pb)..... 0.0005

As..... 0.00004  
Ba..... 0.0005  
Ca..... 0.002  
Cu..... 0.0002  
Fe..... 0.0002  
K..... 0.005  
Mg..... 0.001  
Ni..... 0.0005  
Pb..... 0.0002

Pack Size: 100g

### 465 Sodium Chloride

UNIVAR

**Description:** colourless crystals or crystalline powder.  
Assay(after ignition @ 500°C).....99.9% min.  
pH (5% soln. @ 25°C).....5.0 – 9.0

Maximum limit of impurities(%)

Insol..... 0.005  
Br..... 0.01  
ClO<sub>3</sub> & NO<sub>3</sub> (as NO<sub>3</sub>)..... 0.003  
I..... 0.002  
Ca..... 0.002  
Mg..... 0.001  
N cpds (as N)..... 0.001  
Ba..... 0.001

PO<sub>4</sub>..... 0.0005  
H.M (as Pb)..... 0.0005  
SO<sub>4</sub>..... 0.004  
Cu..... 0.0002  
Fe..... 0.0002  
Pb..... 0.0002  
K..... 0.005  
Loss on ignition..... 1.0

Conforms to ACS

Pack Size: 500g, 2.5kg, 5kg, 10kg, 25kg

### 466 Sodium Chloride

UNILAB

**Description:** colourless crystals or white crystalline powder; odourless.  
Assay(after drying).....99.0 - 100.5%

Maximum limit of impurities(%)

Appearance of solution To pass test  
L.O.D. (105 DegC for 2 hours)..... 0.5  
Acidity or alkalinity To pass test  
Nitrites To pass test  
Br..... 0.01  
I To pass test  
Ba To pass test  
Ferrocyanide To pass test

Mg&alkaline-earth metals as Ca..... 0.01  
PO<sub>4</sub>..... 0.0025  
SO<sub>4</sub>..... 0.02  
As..... 0.0001  
H.M.(as Pb)..... 0.0005  
Fe..... 0.0002  
Al..... 0.00002  
K..... 0.05

Chemical and physical parameters conform to BP and EP

Pack Size: 500g, 2.5kg, 5kg, 10kg, 25kg

**950 Sodium Chloride** LABCHEM

Assay(after drying).....98.0% min.  
 Maximum limit of impurities(%)  
 SO<sub>4</sub>..... 0.03                      H.M.(as Pb)..... 0.001

Pack Size: 500g

**1226 Sodium Chloride** TECHNICAL

Pack Size: 3kg

**Sodium Chlorite 80% Powder**

CAS 7758-19-2  
 NaClO<sub>2</sub> (about 80%) = 90.44

U.N Number.....1496  
 ADG Class.....5.1  
 Packing Group.....II



**1684 Sodium Chlorite 80% Powder** TECHNICAL

Assay (as NaClO<sub>2</sub>).....about 80%.

Pack Size: 500g

**Sodium Chloroaurate**

CAS 15189-51-2  
 NaAuCl<sub>4</sub>.2H<sub>2</sub>O = 397.80

U.N Number.....1759  
 ADG Class.....8  
 Packing Group.....III



**2407 Sodium Chloroaurate** LABCHEM

Assay.....99.9% min.

Maximum limit of impurities(%)  
 Pt..... 0.001                      Al..... 0.001  
 Ag..... 0.003                      Si..... 0.002  
 Cd..... 0.0004                      Fe..... 0.001  
 Mn..... 0.0001                      Cu..... 0.001  
 Mg..... 0.0001                      Zn..... 0.001

Pack Size: 1g

**Sodium Chromate**

CAS 7775-11-3  
 Na<sub>2</sub>CrO<sub>4</sub> = 161.97

U.N Number.....3288  
 ADG Class.....6.1  
 Packing Group.....III



**1394 Sodium Chromate** UNILAB

Assay.....99% min.  
 pH (5%).....8.5 – 10.0

Maximum limit of impurities(%)  
 Cl..... 0.005                      Fe..... 0.001  
 Ca..... 0.005                      SO<sub>4</sub>..... 0.01  
 Cu..... 0.001

Pack Size: 500g

## Sodium Chromate

CAS 7775-11-3  
 $\text{Na}_2\text{CrO}_4 = 161.97$

### 1389 Sodium Chromate Anhydrous

TECHNICAL

Pack Size: 500g

## Tri-Sodium Citrate

CAS 68-04-2  
 $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O} = 294.10$

### 467 Tri-Sodium Citrate

UNIVAR

**Description:** colourless crystals or crystalline powder.  
Assay.....99.0% min.  
pH (5% soln. @ 25 Deg. C).....7.0 – 9.0  
 $\text{H}_2\text{O}$  (K.F.).....11-13%

Maximum limit of impurities(%)

Cl..... 0.001  
 $\text{C}_2\text{O}_4$ ..... 0.02  
 $\text{SO}_4$ ..... 0.001  
Ca..... 0.005  
Cu..... 0.0005  
Fe..... 0.0005

Pb..... 0.0005  
Zn..... 0.0005  
Ammonia..... 0.001  
H.M(as Pb)..... 0.0005  
Insols..... 0.003

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

### 468 Tri-Sodium Citrate

UNILAB

**Description:** white granular crystals or white, crystalline powder; odourless. Slightly deliquescent in moist air.  
Assay (as  $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$ ).....99.0 - 101.0%  
 $\text{H}_2\text{O}_4$ .....11.0 – 13.0%

Maximum limit of impurities(%)

Clarity & colour of soln.....To pass test  
Acidity or alkalinity..... 2.0 mmol H or OH  
Cl..... 0.005  
 $\text{C}_2\text{O}_4$ ..... 0.03

$\text{SO}_4$ ..... 0.015  
H.M. (as Pb)..... 0.001  
Readily carbonisable subs. To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

### 4248 Tri-Sodium Citrate

TECHNICAL

**Description:** colourless crystals or crystalline powder.  
Assay.....99.0-105.0% min.  
pH (5% soln. @ 25 Deg. C).....7.0 – 9.0  
 $\text{H}_2\text{O}$  (K.F.).....11-13%

Maximum limit of impurities(%)

Clarity and Colour of Solution.....to pass test

H.M(as Pb)..... 0.001

Pack Size: 25kg

**Sodium Citrate Dibasic** (See di-Sodium Hydrogen Citrate Page 407 )

**Sodium Citrate Tribasic** (See tri-Sodium Citrate Page 400 )

## Sodium Cobaltinitrite

CAS 13600-98-1  
 $\text{Na}_3\text{Co}(\text{NO}_2)_6 = 403.94$

U.N Number.....2627  
 ADG Class.....5.1  
 Packing Group.....II



834

### Sodium Cobaltinitrite

UNIVAR

Description: orange-yellow powder.

Assay.....95% min.

Maximum limit of impurities(%)

Insol..... 0.02

Cl..... 0.005

$\text{SO}_4$ ..... 0.01

Suitability for K detmn. To Pass test

Conforms to ACS

Pack Size: 100g, 500g

## Sodium Cyanide Powder

CAS 143-33-9  
 $\text{NaCN} = 49.01$

U.N Number.....1689  
 ADG Class.....6.1  
 Packing Group.....I



469

### Sodium Cyanide Powder

UNILAB

Assay.....97.0% min.

Maximum limit of impurities(%)

Cl..... 0.2

$\text{SO}_4$ ..... 0.01

H.M. & Fe (as Fe)..... 0.005

Have pure breathing Oxygen ready.

Refer MSDS

Pack Size: 250g, 5kg

3128

### Sodium Deoxycholate

LABCHEM

Assay (ex Na on dried matter).....90% min.

pH (10% aqueous solution).....7 - 10

Pack Size: 25g

## Sodium Dichromate, Dihydrate

CAS 7789-12-0  
 $\text{Na}_2\text{Cr}_2\text{O}_7 \cdot 2\text{H}_2\text{O} = 298.00$

U.N Number.....3288  
 ADG Class.....6.1  
 Packing Group.....II



1227

### Sodium Dichromate, Dihydrate

UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl..... 0.05

$\text{SO}_4$ ..... 0.1

V..... 0.003

Pack Size: 500g, 25kg

**1228 Sodium Dichromate, Dihydrate**

TECHNICAL

Pack Size: 3kg

Sodium-5,5-Diethylbarbiturate (See Barbitone Sodium Page 75 )

**Sodium Diethyldithiocarbamate**CAS 148-18-5  
(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NCSSNa.3H<sub>2</sub>O = 225.30**1229 Sodium Diethyldithiocarbamate**

UNIVAR

**Description:** colourless crystals or crystalline powder.  
 Reagent for Cu and many metals.  
 Na(as Na<sub>2</sub>SO<sub>4</sub>).....30.5 32.5%

Maximum limit of impurities(%)  
 Solubility (in H<sub>2</sub>O) To pass test Sensitivity to copper To pass test

Conforms to ACS

Pack Size: 25g, 100g

**Sodium Dihydrogen Orthophosphate, Dihydrate**CAS 13472-35-0  
NaH<sub>2</sub>PO<sub>4</sub>.2H<sub>2</sub>O = 156.01**471 Sodium Dihydrogen Orthophosphate, Dihydrate**

UNIVAR

**Description:** fine colourless crystals.  
 Assay.....99.0 - 101.0%  
 pH (5% soln.).....4.3 - 4.5

Maximum limit of impurities(%)  
 Insol..... 0.01 K..... 0.005  
 Cl..... 0.001 As..... 0.0002  
 Fe..... 0.001 Ca..... 0.002  
 Mg..... 0.001 Cu..... 0.0001  
 SO<sub>4</sub>..... 0.005 Pb..... 0.0001

Pack Size: 500g, 3kg, 5kg, 25kg

**472 Sodium Dihydrogen Orthophosphate, Dihydrate**

UNILAB

**Description:** colourless crystals or white, crystalline powder; odourless.  
 Assay.....98.0 - 100.5%  
 Acidity (pH, 5% w/v).....4.2 - 4.5  
 Clarity and colour.....To pass test  
 Loss on drying.....21.5 - 24.0%

Maximum limit of impurities(%)  
 Cl..... 0.020 Arsenic(As)..... 0.0002  
 SO<sub>4</sub>..... 0.030 HM (as Pb)..... 0.0010  
 Reducing Substances..... To pass test Iron(Fe)..... 0.0010

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

## Sodium Dihydrogen Orthophosphate, Anhydrous

CAS 7558-80-7  
 $\text{NaH}_2\text{PO}_4 = 119.98$

### 3964 Sodium Dihydrogen Orthophosphate, Anhydrous

UNIVAR

Assay.....99.0% min.

Maximum limit of impurities(%)

Insoluble matter ..... 0.01  
 Ca ..... 0.005  
 Cu ..... 0.0002  
 Fe ..... 0.001  
 K ..... 0.002

Pb ..... 0.0005  
 Mg ..... 0.002  
 K ..... 0.01  
 $\text{SO}_4$  ..... 0.01

Conforms to ACS

Pack size: 500g, 5Kg

## Sodium Dihydrogen Orthophosphate Monohydrate

CAS 7558-80-7  
 $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O} = 137.99$

### 4745 Sodium Dihydrogen Orthophosphate Monohydrate

UNILAB

Assay.....98.0 – 100.5%.  
 Identity (according to BP).....To pass test  
 pH (5% solution).....4.2 – 4.5

Maximum limit of impurities(%)

Appearance and colour of solution.....To pass test  
 Insoluble matter in  $\text{H}_2\text{O}$  ..... 0.005  
 Loss on drying at  $130^\circ\text{C}$  ..... 11.5 – 13.5  
 Organic volatile impurities.....To pass test  
 Reducing substances to  $\text{KMnO}_4$  .....To pass test  
 Cl ..... 0.014

$\text{SO}_4$  ..... 0.03  
 Al, Ca and related elements.....To pass test  
 Heavy Metals (as Pb) ..... 0.001  
 As ..... 0.0002  
 Fe ..... 0.001

Chemical and physical parameters conform to BP and USP

Pack Size: 25Kg

**Sodium Dioxide** (See Sodium Peroxide Page 420 )

## Sodium Diphenylamine-4-Sulphonate

CAS 6152-67-6  
 $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_4\text{SO}_3\text{Na} = 271.27$

### 3130 Sodium Diphenylamine-4-Sulphonate

OP

Transition EMF (@ pH=0).....+0.84 V  
 Colour change: Oxidized (red-violet) to reduced (colourless)

Pack Size: 25g

## Sodium Dithionite

CAS 7775-14-6  
Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub> + H<sub>2</sub>O

U.N Number.....1384  
ADG Class.....4.2  
Packing Group.....II



### 481 Sodium Dithionite

TECHNICAL

Description: White powder.

Assay.....80% min.  
Bulk Density.....(1.15-1.25Kg/L)  
pH (5% Solution).....6 – 8

Pack Size: 500g

Sodium Dodecyl Sulphate (See Sodium Lauryl Sulphate Page 414 )

## Sodium Fluoborate

CAS 13755-29-8  
NaBF<sub>4</sub> = 109.79

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 2400 Sodium Fluoborate

TECHNICAL

Assay.....about 97%

Maximum limit of impurities(%)

Fe.....	0.005	Cl.....	0.1
H.M. (as Pb).....	0.005	SO <sub>4</sub> .....	0.1

Pack Size: 250g

Sodium Fluoroborate (See Sodium Fluoborate Page 404 )

## Sodium Fluoride

CAS 7681-49-4  
NaF = 41.99

U.N Number.....1690  
ADG Class.....6.1  
Packing Group.....III



### 1230 Sodium Fluoride

UNIVAR

Description: white crystalline powder.

Assay.....99.0% min.

Maximum limit of impurities(%)

Insol.....	0.02	SO <sub>4</sub> .....	0.01
L.O.D. (@150DegC).....	0.3	SO <sub>3</sub> .....	0.005
Titrateable acid.....	0.03 meq/g	Fe.....	0.001
Titrateable base.....	0.01 meq/g	H.M. (as Pb).....	0.001
Cl.....	0.001	Cu.....	0.0005
Na <sub>2</sub> SiF <sub>6</sub> .....	0.1	K.....	0.01

Conforms to ACS

Pack Size: 500g, 5kg



**1231 Sodium Fluoride** UNILAB

Assay.....	98% min.	
Maximum limit of impurities(%)		
Cl. ....	0.01	
SO <sub>4</sub> .....	0.5	Fe..... 0.02
H.M.(as Pb).....	0.01	Sodium hexafluorosilicate.....1

Pack Size: 500g, 5kg, 25kg

**217 Sodium Fluoride (PCA)** TECHNICAL

Assay.....	96% approx.
Maximum limit of impurities(%)	
Na <sub>2</sub> SiF <sub>6</sub> approx.....	1.5

Pack Size: 500g

**Sodium Formaldehyde Sulphoxylate**

CAS 6035-47-8  
CH<sub>3</sub>NaO<sub>3</sub>S = 118.1

**1233 Sodium Formaldehyde Sulphoxylate (Used as reducing agent)** LABCHEM

Assay (iodometric, on anhydrous..... Substances)	85%	
Maximum limit of impurities(%)		
Sulphated ash (on anhydrous..... Substances)	51 – 66%	H <sub>2</sub> O..... 8 – 15%

Pack Size: 500g

**Sodium Formate**

CAS 141-53-7  
HCOONa = 68.01

**2349 Sodium Formate** UNIVAR

<b>Description:</b> Colourless crystals or crystalline powder		
Assay.....	99.0% min.	
Maximum limit of impurities(%)		
Insols.....	0.005	Ca..... 0.005
Cl. ....	0.002	Fe..... 0.0005
SO <sub>4</sub> .....	0.002	H.M. (as Pb)..... 0.0005

Pack Size: 500g

**1232 Sodium Formate** UNILAB

<b>Description:</b> Colourless crystals or crystalline powder		
Assay.....	98.0% min.	
Maximum limit of impurities(%)		
Cl. ....	0.005	H.M. (as Pb)..... 0.001
SO <sub>4</sub> .....	0.005	Fe..... 0.001

Pack Size: 500g

## Sodium Gluconate

CAS 527-07-1  
 $\text{CH}_2\text{OH}(\text{CHOH})_4\text{COONa} = 218.15$

### 734 Sodium Gluconate

TECHNICAL

Assay.....approx 99.5%

Maximum limit of impurities(%)

As..... 0.0003

H.M. (as Pb)..... 0.0020

Pb..... 0.0010

Pack Size: 500g

Sodium Hexametaphosphate (See Sodium Polymetaphosphate Page 421 )

Sodium Hexanitrocobaltate (See Sodium Cobaltinitrite Page 401 )

## Sodium Hydrogen Carbonate

CAS 144-55-8  
 $\text{NaHCO}_3 = 84.01$

### 475 Sodium Hydrogen Carbonate

UNIVAR

**Description:** Soft white crystalline powder.

Assay.....99.7 - 100.3%

Maximum limit of impurities(%)

Insol..... 0.015

Cl..... 0.003

$\text{PO}_4$ ..... 0.001

Fe..... 0.001

S cpds (as  $\text{SO}_4$ )..... 0.003

K..... 0.005

Mg..... 0.005

H.M. (as Pb)..... 0.0005

$\text{NH}_4$ ..... 0.0005

Cu..... 0.0005

Pb..... 0.0005

Ca..... 0.02

Conforms to ACS

Pack Size: 500g, 1kg, 5kg, 25kg

### 476 Sodium Hydrogen Carbonate

UNILAB

**Description:** White, crystalline powder; odourless. Changes progressively into sodium carbonate when heated in the dry state or in solution.

Assay.....99.0 - 101.0%

pH (5% soln.).....8.6 max.

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test

Cl..... 0.015

$\text{SO}_4$ ..... 0.015

As..... 0.0002

Ca..... 0.01

H.M. (as Pb)..... 0.001

$\text{NH}_4$ ..... 0.002

Fe..... 0.002

Chemical and physical parameters conform to BP

Pack Size: 1kg, 5kg, 25kg

## Di-Sodium Hydrogen Citrate

477

### Di-Sodium Hydrogen Citrate

UNILAB

**Description:** White powder; odourless or almost odourless.

Assay.....98.0 - 104.0%

Maximum limit of impurities(%)

Cl..... 0.0330

SO<sub>4</sub>..... 0.12

As..... 0.0002

H.M. (as Pb)..... 0.0020

Oxalate..... 0.0150

Readily carbonisable subs. To pass test

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

## Di-Sodium Hydrogen Orthophosphate, Anhydrous

CAS 7558-79-4

Na<sub>2</sub>HPO<sub>4</sub> = 141.96

621

### Di-Sodium Hydrogen Orthophosphate Anhydrous

UNIVAR

**Description:** White powder. Suitable for buffer solutions.

Assay.....99.0 - 101.0%

Maximum limit of impurities(%)

Insol..... 0.01

L.O.D.@ 105°C..... 0.2

Cl..... 0.002

N cpds (as N)..... 0.002

K..... 0.02

SO<sub>4</sub>..... 0.005

F..... 0.005

Cu..... 0.001

Pb..... 0.001

As..... 0.0003

H.M (as Pb)..... 0.001

Fe..... 0.002

Conforms to ACS and FCC

Pack Size: 500g, 5kg, 25kg

1234

### Di-Sodium Hydrogen Orthophosphate Anhydrous

UNILAB

Assay.....99.0% min.

pH (5% soln. @ 25°C).....8.7 - 9.3

Maximum limit of impurities(%)

L.O.D..... 1.0

Cl..... 0.04

SO<sub>4</sub>..... 0.05

H.M. & Fe (as Fe)..... 0.01

Pack Size: 500g, 5kg, 25kg

458

### Di-Sodium Hydrogen Orthophosphate Anhydrous

TECHNICAL

Assay.....98.0% min.

Maximum limit of impurities(%)

As..... 0.0003

F..... 0.005

HM (as Pb)..... 0.001

Insol Sub..... 0.2

LOD (ANHYD)..... 5.0

Pack Size: 500g, 25kg

## Di-Sodium Hydrogen Phosphate, Dihydrate

CAS 10028-24-7  
 $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O} = 178.0$

### 3965 Di-Sodium Hydrogen Phosphate, Dihydrate UNIVAR

**Description:** White hygroscopic granular powder  
 Assay.....99.5% min.

Maximum limit of impurities(%)

Fe.....	0.001	Insoluble matter.....	0.01
H.M (as Pb).....	0.001	SO <sub>4</sub> .....	0.005
Cl.....	0.001		

Pack size: 500g, 5Kg

### 3966 Di-Sodium Hydrogen Phosphate, Dihydrate UNILAB

**Description:** White crystalline powder  
 Assay.....99.0% min.

Maximum limit of impurities(%)

Fe.....	0.002	Cl.....	0.01
Pb.....	0.002	SO <sub>4</sub> .....	0.01

Pack size: 500g, 5Kg

## Di-Sodium Hydrogen Orthophosphate Dodecahydrate

CAS 10039-32-4  
 $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O} = 358.15$

### 478 Di-Sodium Hydrogen Orthophosphate Dodecahydrate UNIVAR

**Description:** Colourless, efflorescent crystals.  
 Assay.....99.0 - 101.0%  
 pH (5% soln. @ 25°C).....8.7 - 9.3

Maximum limit of impurities(%)

Insol.....	0.003	H.M. (as Pb).....	0.0005
Cl.....	0.002	As.....	0.0002
N cpds (as N).....	0.0015	Monosodium phosphate	To pass test
SO <sub>4</sub> .....	0.005	Reducing subs.	To pass test
Fe.....	0.001		

Store below 25°C

Pack Size: 500g, 5kg, 25kg

### 358 Di-Sodium Hydrogen Orthophosphate Dodecahydrate UNILAB

Assay(after drying @ 130°C).....98 - 103%  
 H<sub>2</sub>O (@ 130°C).....57 - 61%  
 pH (2% soln.).....8.7 - 9.4

Maximum limit of impurities(%)

Cl.....	0.002	H.M.(as Pb).....	0.002
SO <sub>4</sub> .....	0.01	Fe.....	0.002

Store below 25°C

Pack Size: 500g, 5kg, 25kg

## Sodium Hydrogen Selenite

CAS 7782-82-3  
 $\text{NaHSeO}_3 = 150.96$

U.N Number.....2630  
 ADG Class.....6.1  
 Packing Group.....I



### 2365 Sodium Hydrogen Selenite

LABCHEM

Assay.....97% min.  
 pH (2%).....4-7

Pack Size: 25g, 500g

## Sodium Hydrogen Sulphate

CAS 7681-38-1  
 $\text{NaHSO}_4 = 120.06$

U.N Number.....3260  
 ADG Class.....8  
 Packing Group.....III



### 1540 Sodium Hydrogen Sulphate

TECHNICAL

Assay.....95% min.  
 Acidity.....38-40%

Pack Size: 500g

Sodium Hydrogen Sulphate (Monohydrate) (See Sodium Bisulphate Monohydrate Page 394 )

## Sodium Hydrogen-L-Tartrate, Anhydrous

CAS 526-94-3  
 $\text{C}_4\text{H}_5\text{NaO}_6 = 172.04$

### 1238 Sodium Hydrogen-L-Tartrate, Anhydrous

LABCHEM

**Description:** White crystalline powder

Assay.....98% min.

Pack size: 500g



## Your Window to the Ajax World

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis. The website is also your source for up to date information on compliance and regulatory issues, current promotions and product literature.

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# Sodium Hydroxide

CAS 1310-73-2  
NaOH = 40.00

U.N Number.....1823  
ADG Class.....8  
Packing Group.....II



## 482 Sodium Hydroxide Pellets

UNIVAR

**Description:** White deliquescent pellets.

Assay.....97.0% min.

Maximum limit of impurities(%)

Na <sub>2</sub> CO <sub>3</sub> .....	1.0	SO <sub>4</sub> .....	0.003
Cl.....	0.005	H.M. (as Ag).....	0.002
N cpds (as N).....	0.001	Ca.....	0.002
PO <sub>4</sub> .....	0.001	Hg.....	0.00001
Fe.....	0.0005	K.....	0.02
Ni.....	0.0005	Silicate.....	0.003
Pb.....	0.0005	Al.....	0.00005
Cu.....	0.0005	Mg.....	0.002

Conforms to ACS

Pack Size: 500g, 2.5kg, 5kg, 10kg, 20kg

## 483 Sodium Hydroxide Pellets

UNILAB

**Description:** White, crystalline masses supplied as sticks, pellets or slabs; deliquescent. Readily absorbs carbon dioxide.

Assay (as NaOH).....97.0 - 100.5%

Maximum limit of impurities(%)

Na <sub>2</sub> CO <sub>3</sub> .....	2.0	H.M. (as Pb).....	0.0020
Clarity & colour of solution	To pass test	Fe.....	0.0010
SO <sub>4</sub> .....	0.0050	Cl.....	0.0050

Chemical and physical parameters conform to BP

Pack Size: 500g, 2.5kg, 5kg, 20kg

## 951 Sodium Hydroxide Pellets

LABCHEM

Assay (as NaOH).....96.0% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.01	H.M. (as Pb).....	0.01
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Pack Size: 500g

## 2534 Sodium Hydroxide, Mini Pearls

UNIVAR

**Description:** White deliquescent mini pearls.

Assay.....97.0% min.

Maximum limit of impurities(%)

Na <sub>2</sub> CO <sub>3</sub> .....	1.5	Fe.....	0.002
Cl.....	0.015	Hg.....	0.00001
N cpds (as N).....	0.001	Heavy metals (as Ag).....	0.002
PO <sub>4</sub> .....	0.05	K.....	0.1
SO <sub>4</sub> .....	0.006	Ni.....	0.001
NH <sub>4</sub> OH ppt.....	0.02		

Pack Size: 500g, 2.5kg, 5kg, 25kg

**2535 Sodium Hydroxide, Mini Pearls UNILAB**

**Description:** White, crystalline masses supplied as mini pearls; Readily absorbs carbon dioxide. deliquescent .  
 Total alkali (as NaOH).....97.5 - 100.5%

Maximum limit of impurities(%)		Clarity & colour of soln.....To pass test
Na <sub>2</sub> CO <sub>3</sub> .....	2.0	Fe..... 0.001
Cl.....	0.02	H.M. (as Pb)..... 0.002
SO <sub>4</sub> .....	0.005	

Pack Size: 500g, 5kg, 2.5kg, 25kg

**301 Sodium Hydroxide, Mini Pearls TECHNICAL**

Assay (typical).....98% min.  
 Na<sub>2</sub>CO<sub>3</sub> (typical).....0.4 - 0.6

Pack Size: 2kg

**548 Sodium Hydroxide 60% w/v Solution TECHNICAL**

Appearance: Clear colourless solution  
 Density (@ 20°C).....1.435 - 1.452 g/mL  
 Assay.....59-62% w/v

Pack Size: 2.5L

**1719 Sodium Hydroxide 40% w/v Solution TECHNICAL**

Appearance: Clear to Slightly hazy Liquid with no sediment  
 Assay.....40 + 1% w/v @ 20°C

Pack Size: 200L

**1720 Sodium Hydroxide 50% w/w Solution TECHNICAL**

Appearance: Clear to Slightly hazy Liquid with no sediment  
 Density.....about 1.5 g/mL  
 Assay.....48-51% W/W

Pack Size: 200L

**Sodium Hydroxide**

CAS 1310-73-2

U.N Number.....1824  
 ADG Class.....8  
 Packing Group.....III



**636 Sodium Hydroxide 1.000M Solution UNIVOL**

Molarity.....0.995 - 1.005mol/L

Pack Size: 1L, 6 x1L, 2.5L, 20L

**2539 Sodium Hydroxide 0.333 M Solution UNIVOL**

The 0.333N volumetric solution is a ready-to-use titrant for the wine industry. Each mL of Cat No. 2539 is equivalent to 25mg (+/-0.5%) of tataric acid.

Molarity.....0.331 - 0.335mol/L

Pack Size: 2.5L

**1387** Sodium Hydroxide 1.00 M Concentrate, Ampoule OP

**Description:** Plastic ampoule containing clear colourless liquid  
1 mole (40.00g NaOH) to prepare 1L of 1N solution  
Molarity.....0.0998 - 0.1002 mol/L

Pack size: Ampoule

**1386** Sodium Hydroxide 0.100 M Concentrate, Ampoule OP

**Description:** Plastic ampoule containing clear colourless liquid  
0.1 mole (4.000g NaOH) to prepare 1L of 0.1N solution  
Molarity.....0.0998 - 0.1002 mol/L

Pack size: Ampoule

**637** Sodium Hydroxide 0.100M Solution UNIVOL

Molarity.....0.0995 - 0.1005mol/L

Pack Size: 1L, 6x1L, 2.5L, 20L

**2538** Sodium Hydroxide 0.05M Solution UNIVOL

Molarity.....0.0497 - 0.0503M

Pack Size: 5L

**Sodium Hypochlorite Solution**

CAS 7681-52-9

U.N Number.....1791  
ADG Class.....8  
Packing Group.....III



**485** Sodium Hypochlorite Solution 12.5% w/v TECHNICAL

Theoretical decay in available chlorine at 24°C  
After 2 weeks.....11.9%  
After 8 weeks.....9.5%  
After 12 weeks.....8.4%

Pack Size: 5L

**4799** Sodium Hypochlorite 5% w/v Solution LABCHEM

Pack Size: 9x250mL, 4x5L

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use. Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials



## Sodium Hypophosphite, Monohydrate

CAS 7681-53-0  
 $\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O} = 105.99$

### 1240 Sodium Hypophosphite, Monohydrate LABCHEM

Assay (as  $\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O}$ ).....99 - 105%

Maximum limit of impurities(%)  
 H.M (as Pb)..... 0.001                      Fe..... 0.001

Pack Size: 500g

### Sodium Hyposulphite (See Sodium Thiosulphate Page 428 )

## Sodium Iodate

CAS 7681-55-2  
 $\text{NaIO}_3 = 197.89$

U.N Number.....1479  
 ADG Class.....5.1  
 Packing Group.....II



### 3132 Sodium Iodate OP

Assay.....about 99%

Maximum limit of impurities(%)  
 $\text{ClO}_3$ ..... 0.05                      Fe..... 0.001  
 $\text{SO}_4$ ..... 0.05                      H.M.(as Pb)..... 0.002

Pack Size: 100g

## Sodium Iodide

CAS 7681-82-5  
 $\text{NaI} = 149.89$

### 486 Sodium Iodide UNILAB

**Description:** Colourless crystals or white crystalline powder; odourless, hygroscopic.  
 Assay (after drying).....99.0 - 100.5%

Maximum limit of impurities(%)  
 Clarity and colour of soln.                      To pass test                       $\text{SO}_4$ ..... 0.015  
 L.O.D..... 3.0                       $\text{S}_2\text{O}_3$                       To pass test  
 Alkalinity.....0.6 mmol OH                      Fe..... 0.002  
 $\text{IO}_3$                       To pass test                      H.M. (as Pb)..... 0.001

Pack Size: 100g, 500g, 5kg, 50kg

### 2486 Sodium Iodide LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)  
 $\text{SO}_4$ ..... 0.015                      H.M. (as Pb)..... 0.001  
 Fe..... 0.002

Pack Size: 500g, 25kg

## Sodium Lactate

CAS 72-17-3  
CH<sub>3</sub>CH(OH)COONa = 112.06

### 738 Sodium Lactate

UNILAB

Density.....1.372 - 1.380 @ 20°C  
Assay.....69.0 - 71.0% w/w  
pH (5% soln.l).....8.0 min.

Pack Size: 500mL, 20L

## Sodium Lauryl Sulphate

CAS 151-21-3

U.N Number.....1325  
ADG Class.....4.1  
Packing Group.....III



### 1241 Sodium Lauryl Sulphate

TECHNICAL

Description: A mixture of sodium normal primary alkyl sulphates, consisting chiefly of sodium lauryl sulphate.

Pack Size: 500g, 5kg

Sodium Meta-Arsenite (See Sodium Arsenite Page 392 )

## Sodium Metabisulphite

CAS 7681-57-4  
Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> = 190.11

### 487 Sodium Metabisulphite

UNIVAR

Description: White powder with a strong sulphurous odour.  
Assay.....97.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Zn.....	0.001
Cl.....	0.05	H.M. (as Pb).....	0.001
S <sub>2</sub> O <sub>3</sub> .....	0.05	As.....	0.00005
Cu.....	0.001	Fe.....	0.0005
Pb.....	0.001		

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

# Laboratory Reagents

**UNILAB**

UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

488

**Sodium Metabisulphite**

UNILAB

**Description:** Colourless prismatic crystals or white or creamy white powder; odour, sulphurous. Freely soluble in water, slightly soluble in alcohol (96%).

Assay.....95.0 - 100.5%  
pH (5% soln. @ 25°C).....3.5 - 5.0

Maximum limit of impurities(%)

Appearance of solution	To pass test	
Thiosulphates	To pass test	H.M(as Pb)..... 0.002
Arsenic..... 0.0005		Iron..... 0.002

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg, 25kg

**Sodium Metaperiodate** (See Sodium Periodate Page 420 )

**Sodium Metasilicate, Pentahydrate**

CAS 6834-92-0  
Na<sub>2</sub>SiO<sub>3</sub>·5H<sub>2</sub>O = 212.14

U.N Number.....3253  
ADG Class.....8  
Packing Group.....III



707

**Sodium Metasilicate, Pentahydrate**

TECHNICAL

pH (1% soln).....~12.5  
SiO<sub>2</sub> (typical).....27.8 - 29.2%  
Na<sub>2</sub>O (typical).....28.1 - 29.5%  
H<sub>2</sub>O.....43.0% min.

Maximum limit of impurities(%)

Fe..... 0.01	Insol..... 0.02
--------------	-----------------

Pack Size: 500g

**Sodium Metavanadate**

CAS 13718-26-8  
NaVO<sub>3</sub> = 121.93

U.N Number.....3285  
ADG Class.....6.1  
Packing Group.....III



428

**Sodium Metavanadate**

UNIVAR

Assay (ex V).....98% min.

Maximum limit of impurities(%)

Cl..... 0.005	
SO <sub>4</sub> ..... 0.005	Fe..... 0.005
PO <sub>4</sub> ..... 0.005	Pb..... 0.005

Pack Size: 100g

3134

**Sodium Metavanadate**

LABCHEM

**Description:** White crystalline powder

Assay.....98% min.

Pack size: 100g

## Sodium Molybdate

CAS 10102-40-6  
 $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O} = 241.95$

### 360 Sodium Molybdate

UNIVAR

**Description:** White crystalline powder.

Assay.....99.5 - 103.0%  
 pH (5% soln. @ 25°C).....7.0 - 10.5

Maximum limit of impurities(%)

Insol.....	0.005	NH <sub>4</sub> .....	0.001
Cl.....	0.005	Fe.....	0.001
PO <sub>4</sub> .....	0.0005	H.M. (as Pb).....	0.0005
SO <sub>4</sub> .....	0.015		

Conforms to ACS

Pack Size: 500g, 5kg

### 396 Sodium Molybdate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.02	PO <sub>4</sub> .....	0.005
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Pack Size: 500g

## Sodium Nitrate

CAS 7631-99-4  
 $\text{NaNO}_3 = 84.99$

U.N Number.....1498  
 ADG Class.....5.1  
 Packing Group.....III



### 490 Sodium Nitrate

UNIVAR

**Description:** Colourless, deliquescent crystals.

Assay.....99.0% min.  
 pH (5% soln. @ 25°C).....5.5 - 8.3

Maximum limit of impurities(%)

Insol.....	0.005	SO <sub>4</sub> .....	0.003
Cl.....	0.001	Ca.....	0.005
IO <sub>3</sub> .....	0.0005	Mg.....	0.002
NO <sub>2</sub> .....	0.001	Fe.....	0.0003
PO <sub>4</sub> .....	0.0005	H.M. (as Pb).....	0.0005

Conforms to ACS

Pack Size: 500g, 5kg

### 491 Sodium Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	Fe.....	0.002
PO <sub>4</sub> .....	0.001	H.M. (as Pb).....	0.002
SO <sub>4</sub> .....	0.01		

Pack Size: 500g, 5kg, 25kg

## Sodium Nitrite

CAS 7632-00-0  
 $\text{NaNO}_2 = 69.00$

U.N Number.....1500  
 ADG Class.....5.1  
 SUB.....6.1  
 Packing Group.....III



492

### Sodium Nitrite

UNIVAR

Assay.....97.0% min.

Maximum limit of impurities(%)

Insol..... 0.01  
 Cl..... 0.005  
 $\text{SO}_4$ ..... 0.01  
 Ca..... 0.01

Fe..... 0.001  
 H.M. (as Pb)..... 0.001  
 K..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

493

### Sodium Nitrite

UNILAB

Assay.....97.0 - 100.5%  
 L.O.D.....0.25% max.

Maximum limit of impurities(%)

H.M(as Pb)..... 0.002

Pb..... 0.001

Chemical and physical parameters conform to FCC

Pack Size: 500g, 5kg

Sodium Nitroferricyanide (See Sodium Nitroprusside Page 417 )

## Sodium Nitroprusside

CAS 13755-38-9  
 $\text{Na}_2\{\text{Fe}(\text{CN})_5\text{NO}\} \cdot 2\text{H}_2\text{O} = 297.95$

U.N Number.....2811  
 ADG Class.....6.1  
 Packing Group.....III



494

### Sodium Nitroprusside

UNIVAR

**Description:** Ruby-red crystals or crystalline powder.  
 Used as TLC visualization agent.

Assay.....99.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.01  
 Cl..... 0.02

$\text{SO}_4$ ..... 0.01

Conforms to ACS

Pack Size: 100g, 500g

**1243 Sodium Nitroprusside** UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

SO<sub>4</sub>..... 0.02

Pack Size: 500g

**Sodium Ortho-Arsenate** (See Sodium Arsenate Hyd Page 392 )

**Tri-Sodium Orthophosphate**

CAS 7601-54-9

Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O = 380.12

**2220 Tri-Sodium Orthophosphate** UNIVAR

**Description:** Moist colourless, crystals which may lose some water of crystallisation during storage.

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol..... 0.01

Excess NaOH..... 2.5

Cl..... 0.005

N cpds (as N)..... 0.001

SO<sub>4</sub>..... 0.01

As..... 0.0005

Fe..... 0.001

H.M. (as Pb)..... 0.001

Store below 25°C

Pack Size: 500g, 5kg

**811 Tri-Sodium Orthophosphate** UNILAB

Assay(as Na<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O).....98.0% min.

Maximum limit of impurities(%)

Cl..... 0.1

SO<sub>4</sub>..... 0.05

Fe..... 0.004

Store below 25°C

Pack Size: 500g, 25kg

**Sodium Oxalate**

CAS 62-76-0  
(COONa)<sub>2</sub> = 134.00

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



**1810 Sodium Oxalate, Certified Reference Standard** UNIPURE

Assay (Perm.) after drying at 130°C 99.95 – 100.05%

Maximum limit of impurities(%)

Insoluble matter in H<sub>2</sub>O..... 0.005

Darkened substances by H<sub>2</sub>SO<sub>4</sub>.....To pass test

Neutrality..... To pass test

SO<sub>4</sub>..... 0.002

Cl..... 0.002

PO<sub>4</sub>..... 0.005

NH<sub>4</sub>..... 0.002

H.M. (as Pb)..... 0.002

Cu..... 0.001

Fe..... 0.0005

K..... 0.005

Ni..... 0.001

Pb..... 0.001

Pack Size: 100g

**495 Sodium Oxalate** UNIVAR

**Description:** White crystalline powder.

Assay.....99.9% min.

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.001
L.O.D.....	0.01	H.M. (as Pb).....	0.002
Neutrality	To pass test	K.....	0.005
Cl.....	0.002	NH <sub>4</sub> .....	0.002
SO <sub>4</sub> .....	0.002	Subs. darkened by hot H <sub>2</sub> SO <sub>4</sub>	To pass test

Conforms to ACS

Pack Size: 100g, 500g

**496 Sodium Oxalate** UNILAB

Assay.....99.0% min.

Maximum limit of impurities(%)

Cl.....	0.04	Fe.....	0.005
SO <sub>4</sub> .....	0.02	H.M. (as Pb).....	0.005

Pack Size: 500G

**Sodium Perborate**

CAS 10486-00-7  
NaBO<sub>3</sub>·4H<sub>2</sub>O = 153.86

**678 Sodium Perborate** LABCHEM

Assay.....96.0% min.  
Avail O<sub>2</sub>.....10.0% min.  
pH (1%).....10.2 min.

Pack Size: 500g

**Sodium Perchlorate**

CAS 7791-07-3  
NaClO<sub>4</sub>·H<sub>2</sub>O = 140.46

U.N Number.....1502  
ADG Class.....5.1  
Packing Group.....II



**1245 Sodium Perchlorate** UNIVAR

Assay.....85.0 - 90.0% min.  
pH (5%).....6.0 - 8.0

Maximum limit of impurities(%)

Cl.....	0.003	H.M (as Pb).....	0.0005
Ca.....	0.02	K.....	0.05
SO <sub>4</sub> .....	0.002	Insoluble matter.....	0.005
Fe.....	0.0005		

Conforms to ACS

Pack Size: 500g

## Sodium Periodate

CAS 7790-28-5  
NaIO<sub>4</sub> = 213.89

U.N Number.....1479  
ADG Class.....5.1  
Packing Group.....II



### 695 Sodium Periodate

UNIVAR

**Description:** White crystals or crystalline powder.  
Assay(after drying).....99.8 - 100.3%

Maximum limit of impurities(%)

Insol..... 0.005  
Other halogens (as Cl)..... 0.02

Mn..... 0.0003

Conforms to ACS

Pack Size: 100g, 250g, 5kg

### 1246 Sodium Periodate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Other halogens (as Cl)..... 0.2

Mn..... 0.001

Pack Size: 100g, 5kg

## Sodium Peroxide

CAS 1313-60-6  
Na<sub>2</sub>O<sub>2</sub> = 77.98

U.N Number.....1504  
ADG Class.....5.1  
Packing Group.....I



### 497 Sodium Peroxide

UNIVAR

**Description:** Small pale yellow granules. If mixed with organic matter a fire may result.  
Assay.....93.0% min.

Maximum limit of impurities(%)

Cl..... 0.002  
N cpds (as N)..... 0.003  
PO<sub>4</sub>..... 0.0005

SO<sub>4</sub>..... 0.001  
Fe..... 0.005  
H.M. (as Pb)..... 0.002

Conforms to ACS

Pack Size: 500g

**Sodium Phosphate Monobasic** (See Sodium Dihydrogen Orthophosphate Anhydrous Page 403 )

**Sodium Phosphate Dibasic** (See Di-Sodium Hydrogen Orthophosphate Dodecahydrate Page 408 )

**Sodium Phosphate Tribasic** (See tri-Sodium Orthophosphate Page 418 )



## Sodium Polymetaphosphate

CAS 10124-56-8  
(NaPO<sub>3</sub>)<sub>n</sub>.Na<sub>2</sub>O

### 474 Sodium Polymetaphosphate

TECHNICAL

Pack Size: 500g

Sodium Potassium Tartrate (See Potassium Sodium Tartrate Page 363 )

## Sodium Propionate

CAS 137-40-6  
CH<sub>3</sub>CH<sub>2</sub>COONa = 96.06

### 434 Sodium Propionate

LABCHEM

Assay (after drying).....98%  
pH (2% solution).....7.5 – 9.0

Maximum limit of impurities(%)

Cl..... 0.01                      SO<sub>4</sub>..... 0.02

Pack Size: 500g

Sodium Pyrosulphite (See Sodium Metabisulphite Page 414 )

## Tetra-Sodium Pyrophosphate

CAS 7722-88-5  
Na<sub>4</sub>P<sub>2</sub>O<sub>7</sub>·10H<sub>2</sub>O = 446.06

### 499 Tetra-Sodium Pyrophosphate

UNIVAR

**Description:** Colourless crystals or crystalline powder.

Assay.....99.0% min.  
pH (5% soln. @ 25°C).....9.5 – 10.7

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.01
CO <sub>3</sub>	To pass test	Cu.....	0.0005
Cl.....	0.005	Fe.....	0.0005
NO <sub>3</sub> .....	0.003	Mg.....	0.01
SO <sub>4</sub> .....	0.005	Ni.....	0.0005
As.....	0.0003	Pb.....	0.0005

Pack Size: 500g, 5kg

Sodium Pyrophosphate (See Tetra-Sodium Pyrophosphate Page 421 )

## Sodium Pyruvate

CAS 113-24-6  
CH<sub>3</sub>COCOONa = 110.05

### 2387 Sodium Pyruvate LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

H<sub>2</sub>O (K.F)..... 0.5                      H.M. (as Pb)..... 0.002

Pack Size: 25g

## Sodium Salicylate

CAS 54-21-7  
C<sub>6</sub>H<sub>4</sub>(OH)COONa = 160.11

### 1513 Sodium Salicylate UNILAB

**Description:** Colourless, small crystals or crystalline flakes, or a white, crystalline powder; odourless or with a faint, characteristic odour.

Assay(after drying).....99.0 - 101.0%

Maximum limit of impurities(%)

Clarity of soln.                      To pass test

Colour of soln.                      Pale yellow                      Cl..... 0.020

Acidity                      To pass test                      SO<sub>4</sub>..... 0.060

L.O.D..... 0.5                      H.M. (as Pb)..... 0.0020

Protect from light

Pack Size: 500g, 10kg

## Sodium Selenate, Anhydrous

CAS 13410-01-0  
Na<sub>2</sub>SeO<sub>4</sub> = 188.94

U.N Number.....2630

ADG Class.....6.1

Packing Group.....I



### 2507 Sodium Selenate, Anhydrous UNILAB

Assay (Na<sub>2</sub>SeO<sub>4</sub>).....98.0%

Assay (Na).....23.85%

Maximum limit of impurities(%)

Cl..... 0.01                      SO<sub>4</sub>..... 0.1

Pack Size: 100G

## Sodium Selenite

CAS 10102-18-8  
 $\text{Na}_2\text{SeO}_3 = 172.94$

U.N Number.....2630  
 ADG Class.....6.1  
 Packing Group.....I



### 501 Sodium Selenite

TECHNICAL

Pack Size: 100g, 5kg

Sodium Selenite Acid (See Sodium Hydrogen Selenite Page 409 )

## Sodium Silicate Solution

CAS 1344-09-8

U.N Number.....3266  
 ADG Class.....8  
 Packing Group.....III



### 502 Sodium Silicate Solution Extra Pure (Water glass)

TECHNICAL

Assay of  $\text{Na}_2\text{O}$ .....7.5 – 8.5%  
 Assay of  $\text{SiO}_2$ .....25 – 28%  
 pH Neutral  
 Free Alkali To pass test

Pack Size: 2.5L GL

## Sodium Silicofluoride

CAS 16893-85-9  
 $\text{Na}_2\text{SiF}_6 = 188.06$

U.N Number.....2674  
 ADG Class.....6.1  
 Packing Group.....III



### 433 Sodium Silicofluoride

UNILAB

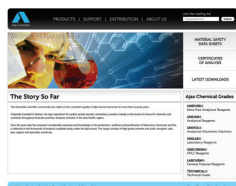
Assay.....98%

Maximum limit of impurities(%)

$\text{SO}_4$ ..... 0.2  
 $\text{PO}_4$ ..... 0.2

Free acidity..... 0.2  
 Moisture..... 1%

Pack Size: 1Kg



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

## Sodium Sulphate

CAS 7757-82-6  
Na<sub>2</sub>SO<sub>4</sub> = 142.04

### 137 Sodium Sulphate, Anhydrous, Granular UNIVAR

**Description:** Hygroscopic colourless crystalline granules.

Assay (after ign. @ 800°C).....99% min.  
pH (5% soln. @ 25°C).....5.2 – 9.2  
Particle size (0.25mm).....80% min.

Maximum limit of impurities(%)

Insol.....	0.01		
L.O.I. (@800 Deg.C).....	0.5	As.....	0.0001
Cl.....	0.001	Fe.....	0.0002
Mg.....	0.001	Cu.....	0.0002
N cpds (as N).....	0.0005	Pb.....	0.0002
H.M (as Pb).....	0.0005	Se.....	0.003
Ca.....	0.01	L.O.D. (anhydrous).....	1.0
K.....	0.01	PO <sub>4</sub> .....	0.001

Conforms to ACS & FCC

**Pack Size:** 500g, 3kg, 5kg, 25kg

### 146 Sodium Sulphate, Anhydrous, Granular UNILAB

Assay (after ign. @ 800°C).....99.0% min.  
pH (5% soln. @ 25°C).....5.2 – 9.2

Maximum limit of impurities(%)

L.O.I. (@800°C).....	1.0	Fe.....	0.002
N cpds (as N).....	0.005	H.M. (as Pb).....	0.005
Cl.....	0.01		

**Pack Size:** 500g, 3kg, 5kg, 25kg

### 503 Sodium Sulphate, Anhydrous Powder UNIVAR

**Description:** Hygroscopic white powder.

Assay.....99.0% min.  
pH (5% soln. @ 25°C).....5.2 – 9.2

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.01
L.O.I. (@800°C).....	0.5	Mg.....	0.005
Cl.....	0.001	Fe.....	0.001
N cpds (as N).....	0.0005	K.....	0.01
PO <sub>4</sub> .....	0.001	H.M. (as Pb).....	0.0005
As.....	0.0001		

Conforms to ACS

**Pack Size:** 500g, 3kg, 5kg, 25kg

### 504 Sodium Sulphate, Anhydrous Powder UNILAB

Assay (after ignition @ 800°).....99.0% min.  
pH (5% soln. @ 25°C).....5.2 – 9.2

Maximum limit of impurities(%)

L.O.I. ( @800°C).....	1.0	Fe.....	0.002
N cpds (as N).....	0.005	H.M. (as Pb).....	0.005
Cl.....	0.01		

**Pack Size:** 500g, 5kg

**506 Sodium Sulphate, Hydrated** UNIVAR

Colourless, transparent crystals or a white crystalline powder; odourless.

Assay (dried basis).....99.0 - 100.5%  
 L.O.D. ....52.0 – 57.0%

Maximum limit of impurities(%)

Insol.....	0.005	Mg.....	0.01
Cl.....	0.001	R <sub>2</sub> O <sub>3</sub> .....	0.01
N cpds (as N).....	0.0002	Acidity or alkalinity.....	To pass test
As.....	0.0001	Clarity & colour of solution.....	To pass test
Ca.....	0.01		

Chemical and physical parameters conform to BP

Store below 25°C

Pack Size: 500g, 5kg

**Sodium Sulphide**

CAS 1313-82-2  
 Na<sub>2</sub>S.9H<sub>2</sub>O = 240.18

U.N Number.....1849  
 ADG Class.....8  
 Packing Group.....II



**508 Sodium Sulphide, Hydrated** UNIVAR

**Description:** Colourless or slightly yellow crystals.

Assay.....98.0 - 103.0%

Maximum limit of impurities(%)

SO <sub>3</sub> & S <sub>2</sub> O <sub>3</sub> (as SO <sub>4</sub> ).....	0.1	Fe.....	To pass test
NH <sub>4</sub> .....	0.005		

Store below 4°C (refrigerate)  
 Conforms to ACS

Pack Size: 250g, 5kg, 25kg

**658 Sodium Sulphide, Hydrated** UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

SO<sub>3</sub> & S<sub>2</sub>O<sub>3</sub> (as SO<sub>2</sub>)..... 1.5

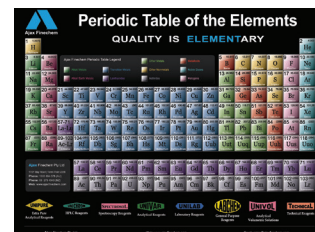
Pack Size: 250g, 5kg

**706 Sodium Sulphide, Hydrated, 60% Flake** TECHNICAL

Pack Size: 500g

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Sodium Sulphite, Anhydrous

CAS 7757-83-7  
 $\text{Na}_2\text{SO}_3 = 126.04$

### 509 Sodium Sulphite, Anhydrous UNIVAR

**Description:** white crystalline powder.

Assay.....98.0% min.

Maximum limit of impurities(%)

Insol.....	0.005		
Free acid	To pass test	Zn.....	0.001
Titrateable free base.....	0.03 meq/g	H.M. (as Pb).....	0.001
Cl.....	0.02	Ca.....	0.01
As.....	0.00005	K.....	0.05
Fe.....	0.001	Cu.....	0.0005
Mg.....	0.001	Pb.....	0.0005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

### 510 Sodium Sulphite, Anhydrous UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

Cl.....	0.04		
Fe.....	0.004	H.M. (as Pb).....	0.005

Pack Size: 500g, 5kg, 25kg

**Sodium Sulphocyanide** (See Sodium Thiocyanate Page 428 )

## Sodium Tartrate

CAS 6106-24-7  
 $\text{C}_4\text{H}_4\text{Na}_2\text{O}_6 \cdot 2\text{H}_2\text{O} = 230.08$

### 1811 Sodium Tartrate Dihydrate, Certified Reference Standard UNIPURE

Assay (Perchl. Ac.).....99.95 – 100.05%  
 pH (5% soln.).....7.0 – 9.0

Maximum limit of impurities(%)

Insoluble matter in $\text{H}_2\text{O}$ .....	0.005	As.....	0.00005
L.O.D at 105°C.....	$15.66 \pm 0.05\%$	Ca.....	0.005
$\text{SO}_4$ .....	0.002	Cu.....	0.0005
Cl.....	0.0005	Fe.....	0.0005
$\text{PO}_4$ .....	0.0005	K.....	0.002
$\text{NH}_4$ .....	0.003	Ni.....	0.0005
H.M. (as Pb).....	0.0005	Pb.....	0.0005

Pack Size: 100g

513

**Sodium Tartrate**

UNIVAR

Suitable for standardisation of Karl Fischer reagent.

**Description:** white crystalline powder.

Assay.....99.0 - 101.0%  
 L.O.D. (@ 150°C).....15.61 – 15.71%  
 pH (5% soln. @ 25°C).....7.0 – 9.0

Maximum limit of impurities(%)

Insol.....	0.005	Ca.....	0.01
Cl.....	0.0005	Fe.....	0.001
PO <sub>4</sub> .....	0.0005	H.M. (as Pb).....	0.0005
SO <sub>4</sub> .....	0.005	NH <sub>4</sub> .....	0.003

Conforms to ACS

Pack Size: 500g, 5kg

514

**Sodium Tartrate**

UNILAB

Assay.....99.0% min.  
 pH (5% soln. @25°C).....about 8.0

Maximum limit of impurities(%)

Cl.....	0.01	Fe.....	0.01
SO <sub>4</sub> .....	0.05	H.M. (as Pb).....	0.002

Pack Size: 5kg

**Sodium Tetraborate**

CAS 1303-96-4

Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>·10H<sub>2</sub>O = 381.37

460

**Sodium Tetraborate**

UNIVAR

**Description:** Colourless crystals or white crystalline powder; efflorescent in dry air.

Assay.....99.5 - 103.0%  
 pH (0.01mol/L @ 25°C).....9.15-9.20

Maximum limit of impurities(%)

Clarity & colour of soln.	To pass B.P.	As.....	0.0005
Insolubles.....	0.005	Ca.....	0.005
Cl.....	0.001	Fe.....	0.0005
PO <sub>4</sub> .....	0.001	H.M. (as Pb).....	0.001
SO <sub>4</sub> .....	0.005	NH <sub>4</sub> .....	0.001

Chemical and Physical parameters conform to BP

Conforms to ACS

Pack Size: 500g, 5kg, 25kg

461

**Sodium Tetraborate, Powder**

UNILAB

Assay.....98.0% min.  
 pH (5% soln. @ 25°C).....9.0-9.6

Maximum limit of impurities(%)

Cl.....	0.02	Fe.....	0.008
SO <sub>4</sub> .....	0.05	H.M. (as Pb).....	0.002

Pack Size: 500g, 5kg, 25kg

## Sodium Thiocyanate

CAS 540-72-7  
NaSCN = 81.07

### 659 Sodium Thiocyanate UNIVAR

**Description:** Colourless, deliquescent crystals.  
Assay.....98.0% min.

Maximum limit of impurities(%)

Insol.....	0.005	Sulphide (as S).....	0.001
Cl.....	0.02	Fe.....	0.0002
CO <sub>3</sub> (as Na <sub>2</sub> CO <sub>3</sub> ).....	0.2	H.M. (as Pb).....	0.0005
SO <sub>4</sub> .....	0.01	NH <sub>4</sub> .....	0.002

Pack Size: 500g

### 516 Sodium Thiocyanate UNILAB

Assay (after drying).....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.05	SO <sub>4</sub> .....	0.1
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Pack Size: 500g

## Sodium Thioglycollate

CAS 367-51-1  
HSCH<sub>2</sub>COONa = 114.10

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 2390 Sodium Thioglycollate UNILAB

White powder.  
Assay.....85% min.  
Store below 4°C

Pack Size: 100g

## Sodium Thiosulphate

CAS 7772-98-7  
Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>·5H<sub>2</sub>O = 248.18

### 517 Sodium Thiosulphate UNIVAR

**Description:** Colourless crystals.  
Assay.....99.5 - 101.0%  
pH (5% soln. @ 25°C).....6.0 - 8.4

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.0005
N cpds (as N).....	0.002	Pb.....	0.0005
Sulphide (S).....	0.0001	Mg.....	0.001
SO <sub>4</sub> & SO <sub>3</sub> (as SO <sub>4</sub> ).....	0.1	K.....	0.001
Cu.....	0.0005	Ca.....	0.002

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 25kg



- 518** **Sodium Thiosulphate** UNILAB  
 Assay.....98.0% min.  
 Maximum limit of impurities(%)  
 SO<sub>4</sub>..... 0.5  
 Pack Size: 500g, 5kg, 25kg
- 953** **Sodium Thiosulphate** LABCHEM  
 Assay.....97.0% min.  
 Maximum limit of impurities(%)  
 SO<sub>4</sub>..... 1.0  
 Pack Size: 500g
- 505** **Sodium Thiosulphate, Anhydrous** TECHNICAL  
 Assay.....97% min.  
 Pack Size: 500g
- 638** **Sodium Thiosulphate 0.100 M Solution** UNIVOL  
 Stabilized with sodium azide 0.01%. Used in iodometric analysis. For end-point detection, we recommend VITEX indicator.  
 Molarity.....0.09950 - 0.1005 mol/L  
 Pack Size: 1L, 6x1L
- 1388** **Sodium Thiosulphate 0.100 M Concentrate, Ampoule** OP  
 Description: plastic ampoule containing clear colourless liquid  
 0.1 mole (24.818g Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>·5H<sub>2</sub>O) to prepare 1L of 0.1N solution  
 Molarity.....0.0998 - 0.1002 mol/L  
 Pack size: Ampoule
- 1397** **Sodium Thiosulphate 0.200 M Solution** UNIVOL  
 Stabilized with sodium azide 0.01%. Used in iodometric analysis. For end-point detection, we recommend VITEX indicator.  
 Molarity.....0.1995 - 0.2005 mol/L  
 Pack Size: 20L

**Sodium Toluene-P-Sulphonchloroamide** (See Chloramine T Page 134 )

## Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



## Sodium Tungstate

CAS 10213-10-2  
Na<sub>2</sub>WO<sub>4</sub>·2H<sub>2</sub>O = 329.86

### 520 Sodium Tungstate

UNIVAR

**Description:** Colourless crystals or white crystalline powder.  
Assay(after ignition).....99.0 - 101.0%

Maximum limit of impurities(%)

Insol.....	0.01	SO <sub>4</sub> .....	0.01
Titratable free base.....	0.02 meq/g	Fe.....	0.001
Mo.....	0.001	H.M(as Pb).....	0.001
Cl.....	0.005	Nitrogen compounds(as N).....	0.001
As.....	0.0005		

Conforms to ACS

Pack Size: 100g, 500g, 5kg

### 521 Sodium Tungstate

UNILAB

Assay.....98.5% min.

Maximum limit of impurities(%)

Cl.....	0.05	H.M.(as Pb), Fe.....	0.005
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Pack Size: 100g

**Sodium Wolframate** (See Sodium Tungstate Page 430 )

**Solid Green** (See Malachite Green (CI 42000 ) Page 268 )

**Solochrome Black** (See Eriochrome Black T Page 191 )

**Soluble Blue** (See Methyl Blue Page 287 )

**Solvent Blue 3** (See Aniline Blue Spirit Soluble C.I.42775 Page 63 )

**Solvent Ether** (See Anaesthetic Ether Page 175 )

**Solvent Yellow 94** (See Fluorescein Page 205 )

## Sorbic Acid

CAS 110-44-1  
CH<sub>3</sub>CH:CHCH:CHCOOH = 112.13

### 320 Sorbic Acid

UNILAB

Assay.....99.2% min.  
M.P. ....133 - 135°C

Maximum limit of impurities(%)

Cl.....	0.015	As.....	0.0002
SO <sub>4</sub> .....	0.02	H.M. (as Pb).....	0.0010
H <sub>2</sub> O.....	0.4	R.O.I.....	0.05

Pack Size: 100g, 5kg

## D-Sorbitol, Powder

CAS 50-70-4  
 $\text{CH}_2\text{OH}(\text{CHOH})_4\text{CH}_2\text{OH} = 182.17$

### 1585 D-Sorbitol, Powder UNILAB

White, crystalline powder.  
 Assay (anhydrous subst.).....97.0 – 102.0%  
 Conductivity.....20 microseimens/cm max.

Maximum limit of impurities(%)			
Water.....	1.5	Ni.....	0.0001
Clarity & colour	To pass test	Related products	To pass test
Pb.....	0.00005	Reducing sugars (as glucose eqi.).....	0.2

Chemical and physical parameters conform to BP

Pack Size: 500g, 5kg

## Sorenson's Buffer

### 1849 Sorenson's Buffer Concentrate Solution LABCHEM

pH.....6.8  
 20 X Concentrate. Dilute 1 part with 19 parts of water

Pack Size: 1L, 5L

**Stannic Chloride** (See Tin (IV) Chloride Hydrated Page 451 )

**Stannic Oxide** (See Tin (IV) Oxide Page 452 )

**Stannous Chloride** (See Tin (II) Chloride Dihydrate Page 451 )

**Stannous Oxide** (See Tin (II) Oxide Page 451 )

**Stannous Sulphate** (See Tin (II) Sulphate Page 452 )

## Starch Soluble

CAS 9005-25-8

### 526 Starch Soluble UNIVAR

**Description:** White powder. Iodometric indicator.

Maximum limit of impurities(%)			
R.A.I.....	0.4	Sensitivity to iodine.....	To pass test
Acidity.....	0.8 ml N	Solubility.....	To pass test

Pack Size: 100g, 500g, 5kg

**1254 Starch Soluble** UNILAB

Iodometric indicator.  
Sensitivity to iodine.....To pass test

Maximum limit of impurities(%)  
R.A.I..... 0.5

Pack Size: 500g

**1547 Starch Maize** LABCHEM

Unmodified food grade material.  
pH.....6.5 - 7.5

Maximum limit of impurities(%)  
H<sub>2</sub>O..... 13                      Protein..... 0.4

Pack Size: 25kg

**1534 Starch Potato** LABCHEM

Purified white powder  
pH.....6.8

Maximum limit of impurities(%)  
H<sub>2</sub>O (L.O.D)......21

Pack Size: 500g

**Stearic Acid, Powder**

CAS 57-11-4  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH = 284.49

**1255 Stearic Acid, Powder** UNILAB

C12-C14.....4% saturated.  
C15-C16 .....41% saturated.  
C17-C18.....54% saturated.  
C18.....1% unsaturated.

Maximum limit of impurities(%)  
Iodine Value..... 1 Max                      Titre (°C).....54 - 57.5  
Acid Value..... 200 - 210                      Colour (5 1/4" LOV)..... 6.OY/1.0R

Pack Size: 500g, 25kg

**Stearic Acid Butyl Ester (See Butyl Stearate Page 110 )**

**Stearyl Alcohol (See 1-Octadecanol Page 314 )**

## Strontium Carbonate

CAS 1633-05-2  
 $\text{SrCO}_3 = 147.63$

### 1516 Strontium Carbonate UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

Cl..... 0.005  
 $\text{SO}_4$ ..... 0.01  
 Ba..... 1  
 Ca..... 0.07

Fe..... 0.002  
 H.M. (as Pb)..... 0.002  
 Total N..... 0.1

Pack Size: 500g, 5kg

## Strontium Chloride

CAS 10025-70-4  
 $\text{SrCl}_2 \cdot 6\text{H}_2\text{O} = 266.62$

### 1257 Strontium Chloride UNIVAR

Description: Colourless crystals

Assay.....99.0% min.  
 pH (5% soln @ 25°C).....5.0 – 7.0

Maximum limit of impurities(%)

Insols..... 0.003  
 $\text{SO}_4$ ..... 0.005  
 $\text{NO}_3$ ..... 0.002  
 Ba..... 0.2  
 Ca..... 0.05

Fe..... 0.001  
 K..... 0.01  
 H.M. (as Pb)..... 0.001  
 Na..... 0.05

Pack Size: 500g

### 1258 Strontium Chloride UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

$\text{SO}_4$ ..... 0.06

H.M. & Fe (as Fe)..... 0.005

Pack Size: 500g

# Coatasil

## Glass Treatment Solution

Coatasil is a unique compound designed to produce a water repellent surface at room temperature.

Cat-No	Description	Pack Size
2293	2% W/W Dimethyldichlorosilane in 1,1-Dichloro-1-fluoroethane	500ml

## Strontium Nitrate

CAS 10042-76-9  
Sr(NO<sub>3</sub>)<sub>2</sub> = 211.63

U.N Number.....1507  
ADG Class.....5.1  
Packing Group.....III



### 1517 Strontium Nitrate

UNIVAR

Description: White crystalline powder.

Assay.....99.0% min.  
pH (5% @ 25°C).....5.0 – 7.0

Maximum limit of impurities(%)

Insol.....	0.01	Ca.....	0.05
L.O.D. (@ 105°C).....	0.1	Mg.....	0.10
Cl.....	0.002	Heavy Metals (as Pb).....	0.0005
SO <sub>4</sub> .....	0.005	Fe.....	0.0005
Ba.....	0.05	Na.....	0.10

Conforms to ACS

Pack Size: 500g, 5kg

### 527 Strontium Nitrate

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Cl.....	0.005	Ba.....	0.5
SO <sub>4</sub> .....	0.01	H.M. (as Pb).....	0.005

Pack Size: 500g, 5kg

## Styrene, Monomer, Stabilized

CAS 100-42-5  
C<sub>6</sub>H<sub>5</sub>CH:CH<sub>2</sub> = 104.15

U.N Number.....2055  
ADG Class.....3  
Packing Group.....III



### 473 Styrene, Monomer, Stabilized

UNILAB

Density(@25°C).....about 0.90g/mL  
Assay.....99.7%

Store below 4° (refrigerate)

Pack Size: 500mL, 20L

## Succinic Acid

CAS 110-15-6  
 $(\text{CH}_2\text{COOH})_2 = 118.09$

528

### Succinic Acid

UNIVAR

**Description:** Colourless crystals.

Assay.....99.0% min.

M.P. ....185 - 191°C

Maximum limit of impurities(%)

Sulph. ash..... 0.02

Cl..... 0.0005

SO<sub>4</sub>..... 0.005

Fe..... 0.0005

H.M. (as Pb)..... 0.0005

NH<sub>4</sub>..... 0.001

H<sub>2</sub>O (K.F)..... 1

Pack Size: 500g, 5kg

## Succinic Anhydride

CAS 108-30-5  
 $\text{C}_4\text{H}_4\text{O}_3 = 100.07$

1260

### Succinic Anhydride For Synthesis (For succinylation of proteins)

LABCHEM

Assay.....99% min.

M.P. ....117 - 119°C

Pack Size: 100g, 500g

## Sucrose

CAS 57-50-1  
 $\text{C}_{12}\text{H}_{22}\text{O}_{11} = 342.30$

530

### Sucrose

UNIVAR

**Description:** Colourless crystals or white, crystalline powder. Used in electrophoresis. Added to PAGE buffers to improve the physical stability of gels.

Spec. rotn. (@25°C).....+66.3 +66.8°

Maximum limit of impurities(%)

Insol..... 0.005

L.O.D..... 0.03

R.A.I..... 0.01

Titratable acid..... 0.0008 meq/g

Cl..... 0.005

SO<sub>4</sub>..... 0.005

SO<sub>3</sub> (as SO<sub>4</sub>)..... 0.005

Cd..... 0.00002

Fe..... 0.0003

H.M. (as Pb)..... 0.0005

Invert sugar..... 0.05

Ca..... 0.002

Cu..... 0.00002

Ni..... 0.00001

Pb..... 0.0001

Zn..... 0.00005

Conforms to ACS

Pack Size: 500g, 2kg, 5kg, 25kg

**1784** **Sucrose** UNILAB

Spec. rotn. (@25°C).....+66 to +67°

Maximum limit of impurities(%)

Sulph. ash. .... 0.02  
SO<sub>4</sub>..... 0.01

H.M. (as Pb)..... 0.001  
Acidity or alkalinity..... 0.25 mmol H or OH

Pack Size: 500g

**954** **Sucrose** LABCHEM

Spec. rotn. (@25°C).....+65 to +68°

Maximum limit of impurities(%)

Cl. .... 0.01

H.M. (as Pb)..... 0.002

Pack Size: 500g

### Sudan Black B (C.I. 26150)

CAS 4197-25-5  
C<sub>29</sub>H<sub>24</sub>N<sub>6</sub> = 456.6

**3264** **Sudan Black B (C.I. 26150)** LABCHEM

**Description:** Brownish black crystalline powder with metallic lustre  
Absorption maximum (in 95% Ethanol)...596 – 605nm

Maximum limit of impurities(%)

L.O.D..... 5.0

Pack size: 25g

### Sudan III (Cl 26100)

CAS 85-86-9

**3263** **Sudan III (Cl 26100)** LABCHEM

Stain for microscopy.

Pack Size: 25g

**Sugar Common** (See Sucrose Page 435 )

**Sugar Of Lead** (See Lead Acetate Page 252 )

# General Purpose Reagents



The LABCHEM® range includes quality reagents for analysis where no specific standard applies.  
Discover more: [www.ajaxfinechem.com/Labchem](http://www.ajaxfinechem.com/Labchem)



## Sulphamic Acid

CAS 5329-14-6  
 $\text{H}_2\text{NSO}_3\text{H} = 97.09$

U.N Number.....2967  
 ADG Class.....8  
 Packing Group.....III



### 531 Sulphamic Acid

UNIVAR

**Description:** Colourless crystals.

Assay (after drying).....99.5% min.

Maximum limit of impurities(%)

R.O.I.....0.02

Cl.....0.001

SO<sub>4</sub>.....0.1

H.M.(as Pb).....0.001

Fe.....0.003

Pack Size: 500g

### 532 Sulphamic Acid

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

Sulph. ash.....0.1

L.O.D.....0.5

Pack Size: 500g, 5kg, 25kg

## Sulphanilamide

CAS 63-74-1  
 $\text{NH}_2\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2 = 172.21$

### 2380 Sulphanilamide

LABCHEM

M.P. (approx).....164-166°C

Assay (tit).....98% min.

Pack Size: 100g, 500g

## Sulphanilic Acid

CAS 121-57-3  
 $\text{NH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H} = 173.19$

### 674 Sulphanilic Acid

UNIVAR

Reagent for NO<sub>2</sub>

**Description:** White crystals or crystalline powder.

Sensitivity to NO<sub>2</sub> 1 part in 10 million

Assay.....98.0 - 102.0%

Maximum limit of impurities(%)

Insol. (Na<sub>2</sub>CO<sub>3</sub> soln.).....0.02

R.A.I.....0.01

Cl.....0.002

NO<sub>2</sub>.....0.00005

SO<sub>4</sub>.....0.01

H.M (as Pb).....0.001

Conforms to ACS

Pack Size: 100g, 500g

## Sulphosalicylic Acid

CAS 5965-83-3  
HOCOC<sub>6</sub>H<sub>3</sub>(OH)SO<sub>3</sub>H.2H<sub>2</sub>O = 254.22

### 533 Sulphosalicylic Acid

UNIVAR

Appearance: White crystals. Used as fixative and solvent in electrophoresis. With methyl green, 10% sulphosalicylic acid is used for fixing (staining) and destaining.

Assay.....99 - 101%  
M.P. ....107-111°C

Maximum limit of impurities(%)

Sulph. Ash. .... 0.1  
Cl. .... 0.002  
Fe. .... 0.002

Salicylic acid ..... 0.2  
H.M (as Pb)..... 0.002

Conforms to ACS

Pack Size: 500g

## Sulphur

CAS 7704-34-9  
S = 32.06

U.N Number.....1350  
ADG Class.....4.1  
Packing Group.....III



### 1686 Sulphur, Powder

TECHNICAL

Assay.....99.3% min.

Maximum limit of impurities(%)

Ash. .... 0.5  
H<sub>2</sub>O. .... 0.2

Acidity (as H<sub>2</sub>SO<sub>4</sub>). .... 0.1

Pack Size: 500g

### 786 Sulphur, Sublimed

TECHNICAL

Assay.....99.5% min.  
Polymeric insol.....30% min.

Maximum limit of impurities(%)

Ash. .... 0.2

Acidity. .... 0.15

Pack Size: 500g

# Concentrated Ampoules

In addition to the range of ready to use volumetric solutions the Ajax Finechem range also includes concentrated ampoules providing you with the flexibility to prepare your solutions as and when required.

Each ampoule contains the precise quantity of concentrate to produce one litre of ready to use solution based on the concentration required. All concentrates are NIST traceable and are supplied with detailed dilution instructions. Each Ampoule makes 1 litre of solution.



## Sulphuric Acid

CAS 7664-93-9  
H<sub>2</sub>SO<sub>4</sub> = 98.08

U.N Number.....1830  
ADG Class.....8  
Packing Group.....II



### 1401 Sulphuric Acid, Extra Pure

UNIPURE

Assay.....94 - 98%

Maximum limit of impurities (ppb)

Al.....	5	Hg.....	1
Sb.....	1	Mo.....	1
As.....	1	Ni.....	1
Ba.....	1	K.....	1
Be.....	1	Se.....	10
Bi.....	1	Ag.....	1
Cd.....	1	Na.....	5
Ca.....	5	Sr.....	1
Cr.....	1	Th.....	1
Co.....	1	Sn.....	1
Cu.....	1	Ti.....	5
Fe.....	5	U.....	1
Pb.....	1	V.....	1
Li.....	1	Zn.....	1
Mg.....	1	Zr.....	1
Mn.....	1		

Pack size: 500mL, 2.5L

### 534 Sulphuric Acid

UNIVAR

**Description:** Clear, oily liquid. Hygroscopic. Free from suspended or insoluble matter.

Density.....about 1.84 g/mL

Assay.....95.0 - 98.0% w/w

Colour (APHA).....10 max.

Maximum limit of impurities(%)

Ignition residue,Na.....	0.0005	Cd.....	0.000005
Cl.....	0.00002	Pb.....	0.000005
NO <sub>3</sub> .....	0.00005	Mo.....	0.000005
Subs. red KMnO <sub>4</sub> (as SO <sub>2</sub> ).....	0.0002	Ni.....	0.000005
Al.....	0.00001	Co.....	0.000002
Cr.....	0.00001	Cu.....	0.000002
Mg.....	0.00005	Mn.....	0.000002
Zn.....	0.00005	Sr.....	0.000002
K.....	0.00005	Hg.....	0.000005
Ca.....	0.0001	As.....	0.000001
Se.....	0.0001	Fe.....	0.00002
NH <sub>4</sub> .....	0.0002	Heavy Metals (as Pb).....	0.0001
Ba.....	0.000005		

Conforms to ACS

Pack Size: 500mL, 2.5L, 3.8L, 340kg

### 955 Sulphuric Acid

LABCHEM

Assay.....94.0% w/w min.

Maximum limit of impurities(%)

Cl.....	0.001	Heavy Metals (as Pb).....	0.001
---------	-------	---------------------------	-------

Pack Size: 500mL, 2.5L GL, 2.5L PL

**535 Sulphuric Acid 98%** TECHNICAL

Pack Size: 2.5L

**1598 Sulphuric Acid, 90% For Milk Testing** LABCHEM

S.G. @ 20°C.....1.812 - 1.818g/mL

Pack Size: 2.5L

**1599 Sulphuric Acid, 94% For Milk Testing** LABCHEM

Assay.....93.0 - 94.5% w/w

Pack Size: 2.5L, 15L

**Sulphuric Acid 50% w/w**

CAS 7664-93-9  
H<sub>2</sub>SO<sub>4</sub> = 98.08

U.N Number.....2796  
ADG Class.....8  
Packing Group.....II



**808 Sulphuric Acid 50% w/w** UNIVAR

Density.....about 1.40g/mL  
Assay.....49 - 51%

Pack Size: 2.5L

**Sulphuric Acid 10% w/w**

CAS 7664-93-9  
H<sub>2</sub>SO<sub>4</sub> = 98.08

U.N Number.....2796  
ADG Class.....8  
Packing Group.....II



**2433 Sulphuric Acid 10% w/w** UNILAB

Useful for general laboratory reagent purposes.  
**Description:** Clear, colourless liquid  
Assay.....9.5 - 10.5% w/w  
Density (@ 20°C).....1.062 - 1.072 g/mL

Pack size: 20L

**Sulphuric Acid**

CAS 7664-93-9  
H<sub>2</sub>SO<sub>4</sub> = 98.08

**1373 Sulphuric Acid 0.05MOL Concentrate 0.1N, Ampoule** OP

**Description:** Plastic ampoule containing clear colourless liquid  
0.05 mole (4.904g H<sub>2</sub>SO<sub>4</sub>) to prepare 1L of 0.1N solution  
Molarity.....0.0497 - 0.0503 mol/L

Pack size: Ampoule

**1375 Sulphuric Acid 0.5MOL Concentrate 1.0N, Ampoule** *OP*

**Description:** Plastic ampoule containing clear colourless liquid  
0.5 mole (49.039g H<sub>2</sub>SO<sub>4</sub>) to prepare 1L of 1N solution  
Molarity.....0.497 - 0.503 mol/L

**Pack size:** Ampoule

**639 Sulphuric Acid 0.1N Solution** *UNIVOL*

Normality.....0.0995 – 0.1005 N  
Molarity.....0.0497 - 0.0503 mol/L

**Pack Size:** 2.5L

**647 Sulphuric Acid 1.000N Soln** *UNIVOL*

Normality.....0.995 - 1.005 N  
Molarity.....0.495 - 0.505mol/L

**Pack Size:** 2.5L

**661 Sulphuric Acid 0.020N Soln** *UNIVOL*

Normality.....0.020N

**Pack Size:** 6X1L

**Sulphuric Acid Diethyl Ester** (See Diethyl Sulphate Page 177 )

**TALC**

CAS 14807-96-6

**1284 TALC** *TECHNICAL*

Bulk Density (approx).....0.9g/mL

Maximum limit of impurities(%)

L.O.I.(typical)..... 5.3  
SiO<sub>2</sub> (typical)..... 61.7  
Al<sub>2</sub>O<sub>3</sub> (typical)..... 0.8

Fe<sub>2</sub>O<sub>3</sub> (typical)..... 1.0  
CaO (typical)..... 0.4  
MgO (typical)..... 30.4

**Pack Size:** 500g

# Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Tannic Acid

CAS 1401-55-4  
 $C_{76}H_{52}O_{46} = 1701.22$

### 536 Tannic Acid UNILAB

Maximum limit of impurities(%)

L.O.D. ....	12.0
Sulphated ash.....	1.0
As.....	0.0003
H.M.(as Pb).....	0.004

Gum or dextrin.....	To pass test
Resinous substances.....	To pass test
Organic volatile impurities.....	To pass test

Chemical and physical parameters conform to BP and USP

Pack Size: 500g, 5kg

**Tannin** (See Tannic Acid Page 442 )

**Tartar Emetic** (See Antimony Potassium (+) Tartrate Page 68 )

## (+)- Tartaric Acid

CAS 87-69-4  
 $(CHOHCOOH)_2 = 150.09$

### 537 (+)- Tartaric Acid UNIVAR

**Description:** Colourless crystals or crystalline powder.  
Assay(after drying).....99.5% min.

Maximum limit of impurities(%)

Insol.....	0.005
R.A.I.....	0.02
Cl.....	0.001
$C_2O_4$ .....	0.1

$PO_4$ .....	0.001
S cpds (as $SO_4$ ).....	0.015
Fe.....	0.001
H.M. (as Pb).....	0.0005

Pack Size: 500g, 5kg, 25kgz

### 455 (+)-Tartaric Acid UNILAB

**Description:** Colourless crystals, or white, or almost white, crystalline powder; odourless or almost odourless.

Assay (after drying).....99.5 - 101.5%  
Spec. rotn. (20% w/v in  $H_2O$ ).....12.0 – 12.8°

Maximum limit of impurities(%)

Clarity and colour of soln.	To pass test
Sulph. ash.....	0.1
L.O.D.....	0.2
Cl.....	0.010

Oxalic Acid.....	0.035
$SO_4$ .....	0.0150
H.M. (as Pb).....	0.0010
Ca.....	0.02

Pack Size: 500g, 5kg

**L(+)-Tartaric Acid Ammonium Salt** (See Ammonium (+) Tartrate Page 61 )

**Tartaric Acid Disodium Salt** (See Sodium Tartrate Dihyd Page 426 )

## Tartrazine (C.I. 19140)

CAS 1934-21-0  
 $C_{16}H_9N_4Na_3O_9S_2 = 534.4$

### 3265 Tartrazine (C.I. 19140)

LABCHEM

**Description:** Orange-yellow coloured powder  
 Assay.....99.0% min.

Maximum limit of impurities(%)

Fe.....	0.001	
As.....	0.0005	
Pb.....	0.001	Cu..... 0.001
Cl.....	0.005	SO <sub>4</sub> ..... 0.01

Pack size: 25g

TCA (See Trichloroacetic Acid Page 457 )

TEA (See Triethanolamine Page 459 )

## TES, Biological Buffer

CAS 7365-44-8  
 $C_6H_{15}NO_6S = 229.5$

### 3436 TES, Biological Buffer

UNIVAR

**Description:** White amorphous powder  
 Assay.....99.0% min.  
 pKa (@20°C).....7.5  
 Melting Point.....225°C

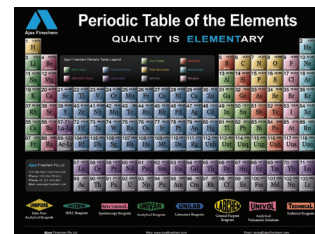
Maximum limit of impurities(%)

Mg.....	0.0005	Cu.....	0.0005
Ca.....	0.001	Cd.....	0.0005
Fe.....	0.0005	SO <sub>4</sub> .....	0.005
Cl.....	0.2	L.O.D. (110°C).....	0.5
Na.....	0.02	R.O.I (as SO <sub>4</sub> ).....	0.2
Mn.....	0.0005		

Pack size: 100g, 1KG

# Ajax Periodic Table

Request your copy of the slick and colourful Periodic Table of the Elements poster at [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) or email your request to [sales@ajaxfinechem.com](mailto:sales@ajaxfinechem.com)



## Tellurium (Metal) Powder

CAS 13494-80-9  
Te = 127.60

U.N Number.....3288  
ADG Class.....6.1  
Packing Group.....III



### 423 Tellurium (Metal) Powder

LABCHEM

Assay.....99.9% min.

Pack Size: 100g

**Tert-Butanol** (See 2-Methylpropan-2-ol Page 294 )

**Tert-Butyl Alcohol** (See 2-Methylpropan-2-ol Page 294 )

**2,6-Di-Tert-Butyl-P-Cresol** (See Butylated Hydroxy Toluene Page 112 )

## Sym-Tetrabromoethane

CAS 79-27-6  
CHBr<sub>2</sub>CHBr<sub>2</sub> = 345.65

U.N Number.....2504  
ADG Class.....6.1  
Packing Group.....III



### 802 SYM-Tetrabromoethane

UNILAB

Density @ 20°C.....2.95 - 2.97g/mL  
Assay.....98-5%  
Colour.....APHA 75 max

Pack Size: 500mL

**1,1,2,2-Tetrabromoethane** (See Sym-Tetrabromoethane Page 444 )

## Tetrabutylammonium Hydrogen Sulphate

CAS 32503-27-8  
(CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>)<sub>4</sub> NHSO<sub>4</sub> = 339.54

### 1352 Tetrabutylammonium Hydrogen Sulphate

UNICHROM

Assay.....99.0% min

Optical Absorbance of 10% in water at:

210nm.....0.05  
220nm.....0.04  
230nm.....0.03  
260nm.....0.02

Pack size: 10g



## Tetrachloroethylene

CAS 127-18-4  
 $\text{CCl}_2:\text{CCl}_2 = 165.83$

U.N Number.....1897  
 ADG Class.....6.1  
 Packing Group.....III



### 1281 Tetrachloroethylene

UNILAB

Density.....about 1.62g/mL  
 R.I .....about 1.502  
 B.R.(95% min.).....120 – 122°C

Maximum limit of impurities(%)  
 Non-vol..... 0.01

Pack Size: 500mL, 2.5L

## Tetraethylammonium Bromide

CAS 71-91-0  
 $(\text{C}_2\text{H}_5)_4\text{NBr} = 210.16$

### 2453 Tetraethylammonium Bromide

UNILAB

Assay.....98% min.  
 pH (10% soln.).....4.5 – 6.5

Maximum limit of impurities(%)  
 Sulph. ash..... 0.05

Pack Size: 100g

Tetrahydrobenzene (See Cyclohexene Page 163 )

## Tetrahydrofuran

CAS 109-99-9  
 $\text{C}_4\text{H}_8\text{O} = 72.11$

U.N Number.....2056  
 ADG Class.....3  
 Packing Group.....II



### 2317 Tetrahydrofuran

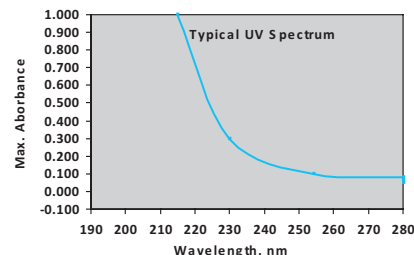
UNICHROM

Description:clear liquid, Stabilized with BHT.  
 Assay (GLC).....>99.7%

Maximum limit of impurities(%)  
 Non vol..... 0.001  
 Acidity.....0.06 mmol H  
 $\text{H}_2\text{O}$  (by K.F.)..... 0.05

**U.V. Absorbance:**  

$\lambda$ (nm)	215-210	254	280
Max. abs.	1.00	0.30	0.05



Suggested Applications:  
 Specially purified grade packed under nitrogen and filtered through 0.45 micron filter for HPLC and GPC.

Pack Size: 2.5L

446

**Tetrahydrofuran**

SPECTROSOL

Density.....0.889 g/mL  
 M.P. ....-108°C  
 B.P. ....66°C  
 Assay (GC).....99.8% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)

Water (by Coulometry)..... 0.02  
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum

To Pass test

**Max. UV. Absorbance:**

$\lambda$ (nm)	250	260	280	300
Absorbance	0.22	0.12	0.022	0.009

540

**Tetrahydrofuran**

UNILAB

Density.....about 0.89g/mL  
 R.I. ....about 1.407  
 Assay (GC).....99.8% min.  
 Water.....0.03% max.

Maximum limit of impurities(%)

Peroxides..... 0.005

Pack Size: 500mL, 2.5L, 20L

**1,2,3,4-Tetrahydro Naphthalene**

CAS 119-64-2

Synonyms:Tetraline; THN

 $C_{10}H_{12}$  = 132.21

U.N Number.....3082

ADG Class.....9

Packing Group.....III



1280

**1,2,3,4-Tetrahydro Naphthalene**

LABCHEM

Assay.....98% min.  
 Density @ 20°C.....0.967 - 0.969

Pack Size: 500 mL

**Tetrahydro-1,4-Oxazine** (See Morpholine Page 298 )**Tetraline** (See 1,2,3,4-Tetrahydro Naphthalene Page 446 )**Tetramethylammonium Hydroxide 25%**

CAS 75-59-2

 $(CH_3)_4NOH$  = 91.15

U.N Number.....1835

ADG Class.....8

Packing Group.....II



2427

**Tetramethylammonium Hydroxide 25%**

LABCHEM

Aqueous solution  
 Assay (acidimetric).....25% min.  
 Density.....about 1.03 g/mL

Pack size: 100mL

**Tetramethyleneglycol** (See 1,4- Butanediol Page 107 )**TFA** (See Trifluoroacetic Acid Page 460 )

## Thallium(I) Nitrate

CAS 10102-45-1  
TINO<sub>3</sub> = 266.37

U.N Number.....2727  
ADG Class.....6.1  
SUB.....5.1  
Packing Group.....II



### 2447 Thallium(I) Nitrate

LABCHEM

Pack Size: 25g

THF (See Tetrahydrofuran Page 445 )

## Thiamine Hydrochloride

CAS 67-03-8  
C<sub>12</sub>H<sub>17</sub>ClN<sub>4</sub>OS.HCl = 337.27

### 2360 Thiamine Hydrochloride For Biochemistry (For the fluorometric determination of mercury)

UNILAB

Assay.....99% min.

Pack Size: 25g

Thiazole Yellow (See Titan Yellow Page 452 )

## Thioacetamide

CAS 62-55-5  
CH<sub>3</sub>CSNH<sub>2</sub> = 75.13

### 627 Thioacetamide

UNIVAR

**Description:** Colourless leaflets. When stored at room temperature it may decompose slightly and produce a turbid aqueous solution.

Assay.....99.0% min.

M.R. ....111 – 114°C

Maximum limit of impurities(%)

Clarity of 2% soln. To pass test R.A.I..... 0.05

Conforms to ACS

Pack Size: 25g, 100g

Thiocarbamide (See Thiourea Page 448 )

# Silica Gel - Self Indicating Orange

Orange Silica Gel is:

<> Safe for the user

<> Non-Hazardous

Cat-No Pack Size

<> Safe for the environment

<> Harmless

8745 500g, 1kg, 3kg, 5kg, 25kg

## Thioglycolic Acid

CAS 68-11-1  
HSCH<sub>2</sub>COOH = 92.12

U.N Number.....1940  
ADG Class.....8  
Packing Group.....II



### 545 Thioglycolic Acid

UNILAB

Reagent for Fe Sensitivity to Fe 1 part in 25 million

Density.....about 1.33g/mL  
Assay(ex acid).....95.0% min.

Pack Size: 100mL, 500mL

Thioglycolic Acid Sodium Salt (See Sodium Thioglycollate Page 428 )

## Thionin

CAS 78338-22-4  
Synonym: Lauth's Violet  
C<sub>14</sub>H<sub>13</sub>N<sub>3</sub>O<sub>2</sub>S = 287.34

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 420 Thionin For Microscopy C.I. 52000 (For metachromatic stains according to Ehrlich)

LABCHEM

Dye content.....85% min.  
Absorption (in water).....598 – 660 nm max.

Pack Size: 5g

## Thiourea

CAS 62-56-6  
CS(NH<sub>2</sub>)<sub>2</sub> = 76.12

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 546 Thiourea

UNILAB

Assay (after drying).....98.0% min.

Maximum limit of impurities(%)  
Sulph. ash..... 0.1

Pack Size: 500g, 5kg

THN (See 1,2,3,4-Tetrahydro Naphthalene Page 446 )

## DL-Threonine

CAS 80-68-2  
 $C_4H_9NO_3 = 119.1$

### 3904 DL-Threonine UNIVAR

**Description:** White crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

Ammonium (NH<sub>4</sub>)..... 0.01                      H.M (as Pb)..... 0.001

Pack size: 25g

## L-Threonine

CAS 72-19-5  
 $C_4H_9NO_3 = 119.1$

### 3903 L-Threonine UNIVAR

**Description:** White crystalline powder

Assay.....99.0% min.

Specific rotation.....-26.0 to -29.0°

Maximum limit of impurities(%)

H.M (as Pb)..... 0.002

As ..... 0.0003

L.O.D..... 0.2

Pb..... 0.001

R.O.I..... 0.1

Pack size: 25g

## Thymol

CAS 89-83-8  
 $(CH_3)_2CHC_6H_3(CH_3)OH = 150.22$

### 2328 Thymol LABCHEM

M.P. ....about 50°C

Pack Size: 100g

## Thymol Blue

CAS 76-61-9  
 $C_{27}H_{30}O_5S = 466.60$

### 700 Thymol Blue LABCHEM

Indicator for pH and for non-aqueous titrations.

Maximum limit of impurities(%)

Visual transition interval:

(Acid range)..... 1.2 (red) to 2.8 (yellow)

(Alkaline range)..... 8.0 (yellow) to 9.2 (blue)

Pack Size: 5g

## Thymolphthalein

CAS 125-20-2  
C<sub>28</sub>H<sub>30</sub>O<sub>4</sub> = 430.52

### 2343 Thymolphthalein LABCHEM

pH indicator.

Maximum limit of impurities(%)

Insol Matter	To pass test	
Clarity of soln	To pass test	Visual transition interval.....pH 8.8 – 10.5

Pack Size: 5g, 1kg

Thymolsulfonephthalein (See Thymol Blue Page 449 )

## Tin Standard

U.N Number.....3264  
ADG Class.....8  
Packing Group.....III



### 2649 Tin 1000ppm Single Element ICP Standard UNIPURE

A 1000 ppm Tin standard, ready for use.  
Sn in 0.5% Hydrochloric acid.

Pack Size: 100mL

### 2625 Tin Standard SPECTROSOL

A 1000 ppm Tin standard, ready for use.  
Each mL contains 1.00+/- 0.005mg of Sn in 10% Hydrochloric acid 32%.

Pack Size: 100mL

## Tin

CAS 7440-31-5  
Sn = 118.69

### 745 Tin Granulated LABCHEM

Maximum limit of impurities(%)

Bi.....	0.02	
Cu.....	0.01	Pb..... 0.05
Fe.....	0.02	Sb..... 0.05

Pack Size: 100g

### 1528 Tin Powder LABCHEM

Pack Size: 500g

## Tin(II) Chloride, Hydrated

CAS 7772-99-8  
 $\text{SnCl}_2 \cdot 2\text{H}_2\text{O} = 225.63$

U.N Number.....3260  
 ADG Class.....8  
 Packing Group.....III



### 523 Tin(II) Chloride, Hydrated

UNIVAR

**Description:** Colourless crystals.

Assay.....98.0 - 103.0%

Maximum limit of impurities(%)

Sol. (in HCl)

To pass test

$\text{SO}_4$

To pass test

Fe.....0.003

Ca.....0.005

K.....0.005

Pb.....0.01

Na.....0.01

Conforms to ACS

Pack Size: 100g, 500g

### 524 Tin(II) Chloride, Hydrated

UNILAB

Assay.....95.0% min.

Maximum limit of impurities(%)

$\text{SO}_4$ .....0.02

Pack Size: 500g, 5kg

## Tin(IV) Chloride, Hydrated

CAS 10026-06-9  
 $\text{SnCl}_4 \cdot 5\text{H}_2\text{O} = 350.58$

U.N Number.....2240  
 ADG Class.....8  
 Packing Group.....III



### 1253 Tin(IV) Chloride, Hydrated

UNILAB

Assay.....98% min.

Maximum limit of impurities(%)

$\text{SO}_4$ .....0.025

Fe.....0.005

Na.....0.01

K.....0.01

Pb.....0.005

Pack Size: 100g, 500g

## Tin(II) Oxide

CAS 21651-19-4  
 $\text{SnO} = 134.70$

### 2347 Tin(II) Oxide

LABCHEM

Assay (typical).....95% min.

Maximum limit of impurities(%)

Assay of  $\text{SnO}_2$ .....5.0

Pack Size: 100g

## Tin(IV) Oxide

CAS 18282-10-5

Synonym: Stannic oxide

SnO<sub>2</sub> = 150.71

### 2394 Tin(IV) Oxide

LABCHEM

Assay of SnO<sub>2</sub>.....99.9%

Pack Size: 250g

## Tin(II) Sulphate

CAS 7488-55-3

SnSO<sub>4</sub> = 214.75

### 525 Tin(II) Sulphate

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

Insol.....0.1

As.....0.01

Sb.....0.01

Pack Size: 500g

Tin Tetrachloride (See Tin (IV) Chloride Hydrated Page 451 )

## Tiron

CAS 149-45-1

C<sub>6</sub>H<sub>4</sub>Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub> = 314.20

### 404 Tiron Metal (pM) indicator (Reagent for Fe, Mo and Ti)

LABCHEM

Pack Size: 10g

## Tisab II Buffer

### 2541 Tisab II Buffer

LABCHEM

Total Ionic Strength Adjustment Buffer solution for use with ion selective electrodes. Contains sodium acetate, acetic acid, sodium chloride, CDTA.

pH.....5.0 - 5.5

Pack Size: 500mL, 5L, 20L

## Titan Yellow

CAS 1829-00-1

Synonyms: Direct yellow 9; Thiazole yellow

C<sub>28</sub>H<sub>19</sub>N<sub>5</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>4</sub> = 695.73

### 480 Titan Yellow C.I. 19540 (Reagent for magnesium)

LABCHEM

pH.....12.0 (yellow) - 13.0 (red)

Absorption.....402 nm max.

Pack Size: 10g



## Titanium(III) Trichloride 20% w/w Solution in 2 N HCl

CAS 7705-07-9  
TiCl<sub>3</sub> = 154.26

### 3165 Titanium(III) Trichloride 20% w/w Solution in 2 N HCl

OP

Pack Size: 250mL

## Titanium Dioxide

CAS 13463-67-7  
TiO<sub>2</sub> = 79.90

### 547 Titanium Dioxide

UNILAB

A white or almost white powder; odourless.

Assay.....99.0 - 100.5%

Maximum limit of impurities(%)

Clarity & colour of solution	To pass test
L.O.D. (@ 105DegC).....	0.5
L.O.I. (@ 1000DegC).....	0.5
Acid-soluble matter.....	0.5
Water-soluble matter.....	0.25
Acidity/alkalinity.....	1.0 mmol H or OH
Sb.....	0.005

As.....	0.0001
Ba.....	To pass test
Fe.....	0.005
Pb.....	0.002
H.M(as Pb).....	0.002
Organic volatile impurities	To pass test

Chemical and physical parameters conform to BP & USP

Pack Size: 500g, 5kg, 25kg

## Titanium (IV) Oxide (See Titanium Dioxide Page 453 )

### 1854 TLC Aluminium Plates, Silica Gel 60 F254

AJAX

Contains fluorescent indicator

Plate dimension.....20 cm x 20 cm

Typical specifications:

Particle size.....	5 - 17 µm
Mean pore diameter.....	60 Å
Specific Pore Volume.....	0.75 ml/g
Specific Surface (BET).....	about 500 m <sup>2</sup> /g

Pack Size: 25 Sheets

### 1855 TLC Aluminium Plates, Silica Gel 60

AJAX

Does not contain fluorescent indicator

Plate dimension.....20 cm x 20 cm

Typical specifications:

Particle size.....	5 - 17 µm
Mean pore diameter.....	60 Å
Specific Pore Volume.....	0.75 ml/g
Specific Surface (BET).....	about 500 m <sup>2</sup> /g

Pack Size: 25 Sheets

**1853** **TLC Glass Plates, Silica Gel 60 F254** AJAX

Contains fluorescent indicator  
 Plate dimension.....20 cm x 20 cm  
 Layer thickness.....0.25mm

Pack Size: 25 sheets

**1852** **TLC Glass Plates, Silica Gel 60** AJAX

Does not contain fluorescent indicator  
 Plate dimension.....20 cm x 20 cm  
 Layer thickness.....0.25mm

Pack Size: 25 Sheets

**1858** **TLC Polyester Plates, Silica Gel 60** AJAX

Does not contain fluorescent indicator  
 Plate dimension.....20 cm x 20 cm

Typical specifications:  
 Particle size.....5 - 17 µm  
 Mean pore diameter.....60 Å  
 Specific Pore Volume.....0.75 ml/g  
 Specific Surface (BET).....about 500 m<sup>2</sup>/g

Pack Size: 25 Sheets

**1859** **TLC Polyester Plates, Silica Gel 60 F254** AJAX

Contains fluorescent indicator  
 Plate dimension.....20 cm x 20 cm

Typical specifications:  
 Particle size.....5 - 17 µm  
 Mean pore diameter.....60 Å  
 Specific Pore Volume.....0.75 ml/g  
 Specific Surface (BET).....about 500 m<sup>2</sup>/g

Pack Size: 25 Sheets

**Toluene**

CAS 108-88-3  
C6H5CH3 = 92.14

U.N Number.....1294  
 ADG Class.....3  
 Packing Group.....II



**246** **Toluene** SPECTROSOL

Density.....0.867 g/mL  
 M.P. ....-95°C  
 B.P. ....110.6°C  
 Assay (GC).....99.8% min.  
 Acidity (mEq/g).....0.0005 max.

Maximum limit of impurities(%)  
 Water (by Coulometry)..... 0.01  
 R.O.E..... 0.0005

Pack Size: 500mL, 2.5L GL

FTIR Spectrum	To Pass test			
<b>Max. UV. Absorbance:</b>				
λ(nm)	320	330	340	350
Absorbance	0.05	0.022	0.018	0.009

**551** **Toluene** UNIVAR

**Description:** Clear liquid, characteristic odour  
 Assay (G.C.).....99.5% min  
 Colour (APHA).....10 max.  
 R.I. ....1.4950 – 1.4970

Maximum limit of impurities(%)		
R.A.E.....	0.001	Cu..... 0.000002
S cpds (as S).....	0.003	Mn..... 0.000002
H <sub>2</sub> O.....	0.03	Ni..... 0.000002
Subs. darkened by H <sub>2</sub> SO <sub>4</sub>	To pass test	Sr..... 0.000002
Al.....	0.000005	Ca..... 0.00002
Cd.....	0.000005	Fe..... 0.00001
Pb.....	0.000005	Mg..... 0.00001
Ba.....	0.000002	K..... 0.00001
Cr.....	0.000002	Zn..... 0.00001
Co.....	0.000002	Na..... 0.00005

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

**552** **Toluene** UNILAB

Density.....about 0.86g/mL  
 B.R.(95% min.).....109 – 111°C

Maximum limit of impurities(%)		
Non-vol.....	0.005	S cpds (as S)..... 0.003

Pack Size: 500mL, 2.5L, 20L, 200L

**1553** **Toluene** TECHNICAL

Assay.....97% min.  
 Density (@ 15°C).....0.865 – 0.875g/mL

Pack Size: 2.5L

**Toluene-4-Sulphonic Acid**

CAS 104-15-4  
 CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H = 172.22

U.N Number.....2585  
 ADG Class.....8  
 Packing Group.....III



**2329** **Toluene-4-Sulphonic Acid** UNILAB

Melting point approx.....102°C.  
 Assay.....95% min.

Maximum limit of impurities(%)		
Sulph. ash.....	0.2	Free H <sub>2</sub> O (K.F)..... 2
Free acid.....	3	

Pack Size: 250g

## p-Toluenesulfonyl Chloride

CAS 98-59-9

Synonym: Tosyl chloride  
C<sub>7</sub>H<sub>7</sub>ClO<sub>2</sub>S = 190.65

U.N Number.....3261

ADG Class.....8

Packing Group.....II



### 1279 p-Toluenesulfonyl Chloride For Synthesis

LABCHEM

Assay.....98%

M.P. ....65 – 68°C

Pack Size: 500g

## Toluidine Blue (CI 52040)

CAS 92-31-9

### 3268 Toluidine Blue (CI 52040)

LABCHEM

Stain for microscopy. Used as a stain for acid mucopolysaccharides, oligodeoxynucleotides, RNA and RNase.

Pack Size: 10g, 25g

## p-Toluidine

CAS 106-49-0

Synonyms: 4-Methylaniline; 4-Aminotoluene  
C<sub>7</sub>H<sub>9</sub>N = 107.16

U.N Number.....3451

ADG Class.....6.1

Packing Group.....II



### 744 p-Toluidine (Reagent for carboxylic and sulphonic acids)

UNIVAR

Pack Size: 500g, 5kg

Assay 99% min.

M.P. 42.0 – 44.0°C

Maximum limit of impurities(%)

Insoluble matter (dil. HCl)..... 0.01

Sulphated ash..... 0.02

p-Nitrotoluene CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>..... 0.001

Toluene (C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>)..... 0.1

m-Toluidine (CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>)..... 0.3

o-Toluidine (CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>)..... 0.1

Pack Size: 100g

A-Tolunitrile (See Benzyl Cyanide Page 87 )

Toxic Acid (See Maleic Acid Page 268 )

# Analytical Reagents



UNIVAR® brand analytical reagents are used daily in laboratories throughout Australia and New Zealand and further afield in the Asia Pacific region. The purity of UNIVAR® AR reagents either conforms to or exceeds American Chemical Society (ACS) standards. Discover more: [www.ajaxfinechem.com/Univar](http://www.ajaxfinechem.com/Univar)



**559 Trichloroacetic Acid**

UNILAB

**Description:** Colourless, deliquescent crystals or crystalline masses; odour pungent. Very acidic and corrosive.

Assay.....98.0 - 100.5%

Maximum limit of impurities(%)

Clarity and colour of soln. To pass test

Sulph. ash. .... 0.1 Cl. .... 0.010

Pack Size: 250g, 5kg

**Trichloroethylene**CAS 79-01-6  
CCl<sub>2</sub>:CHCl = 131.39

U.N Number.....1710

ADG Class.....6.1

Packing Group.....III

**1266 Trichloroethylene**

UNILAB

Appearance: Clear &amp; colourless liquid

R.I. ....about 1.477

B.R. (95% min.).....86 – 87°C

Density.....1.460 – 1.465 g/mL

Maximum limit of impurities(%)

Acidity. .... 0.2 mmol H

Free Cl<sub>2</sub>..... 0.001

Pack Size: 2.5L

**1265 Trichloroethylene**

TECHNICAL

Density.....about 1.46g/mL

Pack Size: 2.5L

**Trichloromethane** (See Chloroform Page 138 )**Trichloromethyl Benzene** (see Benzotrichloride Page 85 )**Tricine**CAS 5704-04-1  
C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub> = 179.20**3437 Tricine, Biological Buffer**

UNIVAR

**Description:** White powder

Assay.....99.0% min.

pKa.....7.9 – 8.3

pH (1% in H<sub>2</sub>O).....4.0 – 6.0

Maximum limit of impurities(%)

Moisture..... 1.0

Pack size: 100g, 1KG

## Tricresyl Phosphate

CAS 1330-78-5

Synonyms: Tritolyl phosphate

 $C_{21}H_{21}O_4P = 368.37$ 

U.N Number.....2574

ADG Class.....6.1

Packing Group.....II



377

### Tricresyl Phosphate

LABCHEM

Wt per ml @ 20°C.....about 1.16g

Pack Size: 500 mL

## Triethanolamine

CAS 102-71-6

 $N(CH_2CH_2OH)_3 = 149.19$ 

787

### Triethanolamine

UNILAB

Clear, colourless or pale yellow liquid; odourless or almost odourless; hygroscopic.

Assay (nitrioltriethanol).....99- 103%.

Density.....1.120 – 1.130 g/mL

R.I. @ 20°C.....1.482 – 1.485

Total bases.....19.9 - 22.1 mmol HCl / 3 g

Maximum limit of impurities(%)

Sulph. ash..... 0.1

Pack Size: 500mL, 2.5L, 20L

## Triethylamine

CAS 121-44-8

 $(C_2H_5)_3N = 101.19$ 

U.N Number.....1296

ADG Class.....3

SUB.....8

Packing Group.....II



1024

### Triethylamine

UNILAB

Density.....about 0.73g/mL

R.I. ....about 1.400

Assay.....99.0% min.

Maximum limit of impurities(%)

Non-vol..... 0.01

Pack Size: 500mL, 2.5L

# Spectroscopy Materials

**SPECTROSOL**

SPECTROSOL® reagents are specially purified to conform to strict quality specifications for UV Visible and Atomic Absorption Spectroscopy (AAS) techniques. Discover more details on the products available in the Spectroscopy range: [www.ajaxfinechem.com/Spectrosol](http://www.ajaxfinechem.com/Spectrosol)

## Triethylene Glycol

CAS 112-27-6

Synonyms: Triglycol

$C_{16}H_{14}O_4 = 150.18$

### 618 Triethylene Glycol For Synthesis

UNILAB

Assay.....98% min.  
Density @ 20°C.....1.123 – 1.124  
R.I. @ 20°C.....1.4559  
Miscible with water in all proport.  
Hygroscopic

Maximum limit of impurities(%)

H<sub>2</sub>O..... 0.3

Pack Size: 500mL

## Trifluoroacetic Acid

CAS 76-05-1

$C_2HF_3O_2 = 114.02$

U.N Number.....2699

ADG Class.....8

Packing Group.....I



### 2519 Trifluoroacetic Acid – For Peptide Work

LABCHEM

Density.....about 1.50 g/mL.  
Specially pure for peptide work.  
Assay (tit).....99.5% min.

Maximum limit of impurities(%)

H<sub>2</sub>O..... 0.01

Pack Size: 500mL

Triglycol (See Triethylene Glycol Page 460 )

3,4,5 Trihydroxybenzoic Acid (See Gallic Acid Monohydrate Page 211 )

Triiodomethane (See Iodoform Page 239 )

1,2,3-Triketohydrinedene Monohydrate (See Ninhydrin Page 307 )

# HPLC Reagents



UNICHROM® brand solvents and reagents are specially purified for applications in High Performance Liquid Chromatography (HPLC). Full details of the UNICHROM® range is available at [www.ajaxfinechem.com/Unichrom](http://www.ajaxfinechem.com/Unichrom)



## Trimethylchlorosilane

CAS 75-77-4  
(CH<sub>3</sub>)<sub>3</sub>SiCl = 108.64

U.N Number.....1298  
ADG Class.....3  
SUB.....8  
Packing Group.....II



### 2456 Trimethylchlorosilane

LABCHEM

Density.....about 0.86g/mL  
R.I (approx).....1.387.  
Assay (GC).....97% min.  
B.R. ....55 - 57°C

Pack Size: 100mL

3,5,5-Trimethyl-2-Cyclohexen-1-One (See Isophorone Page 245 )

## 2,2,4-Trimethylpentane

CAS 540-84-1  
C<sub>8</sub>H<sub>18</sub> = 114.23

U.N Number.....1262  
ADG Class.....3  
Packing Group.....II



### 2516 2,2,4-Trimethylpentane

UNICHROM

**Description:** Clear liquid; characteristic odour.  
R.I .....1.389 – 1.392  
Assay (GC).....>99.5%

Maximum limit of impurities(%)

R.A.E..... 0.001  
Water-sol. titratable acid..... 0.03  
H<sub>2</sub>O..... 0.05

**U.V. Absorbance:**

λ(nm)	215	254	280
Max. abs.	1.00	0.02	0.01

**Suggested Applications:**  
Specially purified grade filtered through 0.45 micron filter for HPLC and pesticide residue analysis.

Pack Size: 2.5L

### 592 2,2,4-Trimethylpentane

SPECTROSOL

**Description:** Clear liquid; characteristic odour.  
For U.V. spectroscopy.  
Colour (APHA).....10 max.  
R.I .....1.39 – 1.392  
Assay (GLC).....99.5% max.

Maximum limit of impurities(%)

R.A.E..... 0.001  
Water-sol. titratable acid.....0.03 mmol H  
S cpds (as S)..... 0.005

**UV Absorbance:**

λ (nm)	215	220	230	240	250-400
Max. abs.	1.0	0.4	0.1	0.04	0.015

Conforms to ACS

Pack Size: 500mL, 2.5L

**348** **2,2,4-Trimethylpentane** UNIVAR

**Description:** Clear liquid with a characteristic odour.  
 Assay.....99.0% min.  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)  
 R.A.E..... 0.001  
 Water-sol. titratable acid. .... 0.0003 meq/g S cpds (as S)..... 0.005

Conforms to ACS

**Pack Size:** 500mL, 2.5L

**349** **2,2,4-Trimethylpentane** UNILAB

Density(@25°C).....about 0.69g/mL  
 Assay.....98.5% min.

Maximum limit of impurities(%)  
 Non-vol. .... 0.005  
 Water. .... 0.05 Free acid (as CH<sub>3</sub>COOH)..... 0.01

**Pack Size:** 2.5L, 20L

**1,3,7 Trimethylxanthine** (See Caffeine (Anhydrous) Page 118 )

**2,4,6-Trinitrophenol** (See Picric Acid Page 337 )

**Tris(2-Hydroxyethyl)Amine** (See Triethanolamine Page 459 )

**Tris (Hydroxymethyl) Methylamine**

CAS 77-86-1  
 C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub> = 121.14

**1812** **Tris (Hydroxymethyl) Aminomethane, Certified Reference Standard** UNIPURE

Assay(Perchl. Ac.)after drying at 105°C.99.95–100.05%  
 Identity: IR to pass test  
 Melting Range.....169-171°C  
 pH of 0.05 mol/l sol. ....10.2 – 10.6

Maximum limit of impurities(%)  
 Insoluble matter in H<sub>2</sub>O. .... 0.005 Cr. .... 0.0001  
 R.O.I. (as SO<sub>4</sub>). .... 0.01 Cu. .... 0.0002  
 ABS at λ290nm 40% sol. in water. .... 0.2 Fe. .... 0.0005  
 Cl. .... 0.0005 K. .... 0.001  
 H.M. (as Pb)..... 0.0005 Mg. .... 0.001  
 As. .... 0.00005 Na. .... 0.001  
 Ca. .... 0.001 Ni. .... 0.0005  
 Cd. .... 0.0001 Pb. .... 0.0002  
 Co. .... 0.0001 Zn. .... 0.0002

**Pack Size:** 100g

**2311** **Tris(Hydroxymethyl) Methylamine** UNIVAR

**Description:** White crystals or crystalline powder. Suitable for buffer and enzyme work.

Assay (after drying).....99.8% min.  
M.P. ....168-172°C

Maximum limit of impurities(%)

Insol.....	0.003	As.....	0.0001
Sulph. ash.....	0.01	Cu.....	0.0001
L.O.D.@ 105 Deg.C.....	0.5	Fe.....	0.0001
Cl.....	0.001	Pb.....	0.0002
SO <sub>4</sub> .....	0.005		

**Pack Size:** 100g, 500g, 5kg, 25kg

**563** **Tris(Hydroxymethyl) Methylamine** UNILAB

Assay after drying.....99.0% min.  
pH (5% in water).....10.5 – 11.5  
M.P. ....168 – 172°C

Maximum limit of impurities(%)

L.O.D. ....1

**Pack Size:** 500g, 5kg

**N-Tris(Hydroxymethyl)Methyl-2-Aminoethane Sulphonic Acid** (See TES Page 443 )

**Triton X100**

CAS 9002-93-1

U.N Number.....3082  
ADG Class.....9  
Packing Group.....III



**1552** **Triton X100** LABCHEM

Non-ionic wetting agent.  
Density (@25°C).....about 1.07g/mL  
Solublizes protein aggregates, allowing better electrophoresis separations.

**Pack Size:** 500mL, 2.5L, 20L

**Tritolyl Phosphate** (See Tricresyl Phosphate Page 459 )

**Tropaelin OO**

CAS 554-73-4

**2352** **Tropaelin OO (CI 13080)** LABCHEM

pH indicator.

**Pack Size:** 25g

## Trypan Blue

CAS 72-57-1

U.N Number.....2811

ADG Class.....6.1

Packing Group.....III



### 3269 Trypan Blue (CI 23850)

OP

Stain for microscopy.

Pack Size: 10g

## DL-Tryptophan

CAS 54-12-6

$C_{11}H_{12}N_2O_2 = 204.2$

### 751 DL-Tryptophan, Suitable for bacteriology and tissue culture

LABCHEM

Assay (HClO<sub>4</sub> titration).....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Pack Size: 5g

## L-Tryptophan

CAS 72-22-3

$C_{11}H_{12}N_2O_2 = 204.2$

### 3429 L-Tryptophan

UNILAB

Description: White crystalline powder

Assay.....98.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

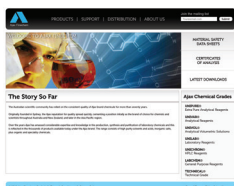
As..... 0.00015

L.O.D..... 0.5

Pack size: 25g

**Tween 20** (See Ecoteric T20 Page 190 )

**Tween 80** (See Ecoteric T80 Page 190 )



## Your Window to Ajax Finechem

The Ajax website [www.ajaxfinechem.com](http://www.ajaxfinechem.com) truly is your window to the Ajax world whether you are looking to find a product or check stock availability, locate your nearest distributor, or are seeking technical support such as product specifications, Material Safety Data Sheets or Certificates of Analysis.

## Silicone Tubing, Tygon

**AAA00007**

### Silicone Tubing, Tygon

TYGON

**Description:** TYGON B-44-4X FOOD MILK DAIRY TUBING  
1/8" ID 1/4" OD 1/16" WALL

Meet FDA, 3-A and NSF criteria.

Roll: 50 feet

**Suggested applications:**

For aseptic filling, condiment dispensing, dairy processing, vitamin and flavour concentrate systems, soft-serve dispensing.

**AAC00002**

### Silicone Tubing, Tygon

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 1/16" ID 1/8"  
OD 1/32" WALL

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

**AAC00006**

### Silicone Tubing, Tygon

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 1/8" ID 3/16"  
OD 1/32" WALL

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

**AAC00007**

### Silicone Tubing, Tygon

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 1/8" ID 1/4"  
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

**AAC00010**

### Silicone Tubing, Tygon

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 5/32" ID 9/32"  
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

**AAC00012****Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 3/16" ID 5/16"  
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00016****Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 5/16"  
OD 1/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00017****Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 3/8"  
OD 1/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00018****Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 7/16"  
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00020****Silicone Tubing, Tygon**

TYGON

Description: TYGON R-3603 LABORATORY TUBING 1/4" ID 5/8"  
OD 3/16" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

Suggested applications:

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00023****Silicone Tubing, Tygon**

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 5/16" ID 1/2"  
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00025****Silicone Tubing, Tygon**

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 5/16" ID 5/8"  
OD 5/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00030****Silicone Tubing, Tygon**

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 3/8" ID 7/8"  
OD 1/4" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC00037****Silicone Tubing, Tygon**

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 1/2" ID 11/13"  
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 50 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC02037****Silicone Tubing, Tygon**

TYGON

**Description:** TYGON R-3603 LABORATORY TUBING 1/2" ID 11/16"  
OD 3/32" WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 100 feet

**Suggested applications:**

For general laboratory, analytical instruments, peristaltic and vacuum pumps,  
ideal for condensers, desiccators, gas lines and drain lines.

**AAC1S1506** **Silicone Tubing, Tygon** **TYGON**

**Description:** TYGON R-3603 METRIC LABORATORY TUBING 8MM ID 12MM OD 2MM WALL.

Meet FDA, CFR part 175.300 criteria.

Roll: 15 M

Suggested applications:

For laboratory, analytical instruments, peristaltic and vacuum pumps, ideal for condensers, desiccators, gas lines and drain lines.

**AAG00012** **Silicone Tubing, Tygon** **TYGON**

**Description:** TYGON F-4040-A LUBRICANTS & FUEL TUBING 3/16" ID 5/16" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For small engine fuel lines, general automotive, recreational vehicles, lawn and garden equipment, coolant transfer, heating fuels, cutting compounds, polishing equipment, lubrication lines.

**AAG00017** **Silicone Tubing, Tygon** **TYGON**

**Description:** TYGON F-4040-A LUBRICANTS & FUELS TUBING 1/4" ID 3/8" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For small engine fuel lines, general automotive, recreational vehicles, lawn and garden equipment, coolant transfer, heating fuels, cutting compounds, polishing equipment, lubrication lines.

**AAG00029** **Silicone Tubing, Tygon** **TYGON**

**Description:** TYGON F-4040-A LUBRICANTS & FUEL TUBING 3/8" ID 5/8" OD 1/8" WALL.

Roll: 50 feet

Suggested applications:

For small engine fuel lines, general automotive, recreational vehicles, lawn and garden equipment, coolant transfer, heating fuels, cutting compounds, polishing equipment, lubrication lines.

**AAX00004** **Silicone Tubing, Tygon** **TYGON**

**Description:** TYGON S-50-HL SURGICAL TUBING 3/32" ID 5/32" OD 1/32" WALL

Roll: 50 feet

Suggested applications:

For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.



<b>AAX00009</b>	<b>Silicone Tubing, Tygon</b>	<b>TYGON</b>
<p><b>Description:</b> TYGON S-50-HL SURGICAL TUBING 5/32" ID 7/32" OD 1/32" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
<b>AAX00011</b>	<b>Silicone Tubing, Tygon</b>	<b>TYGON</b>
<p><b>Description:</b> TYGON S-50-HL SURGICAL TUBING 3/16" ID 1/4" OD 1/32" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
<b>AAX00016</b>	<b>Silicone Tubing, Tygon</b>	<b>TYGON</b>
<p><b>Description:</b> TYGON S-50-HL SURGICAL TUBING 1/4" ID 5/16" OD 1/32" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
<b>AAX00017</b>	<b>Silicone Tubing, Tygon</b>	<b>TYGON</b>
<p><b>Description:</b> TYGON S-50-HL SURGICAL TUBING 1/4" ID 3/8" OD 1/16" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		
<b>AAX00022</b>	<b>Silicone Tubing, Tygon</b>	<b>TYGON</b>
<p><b>Description:</b> TYGON S-50-HL SURGICAL TUBING 5/16" ID 7/16" OD 1/16" WALL</p>		
<p>Roll: 50 feet</p>		
<p>Suggested applications: For minimally invasive devices, medical laboratories, blood and IV solutions, dialysis equipment, wound drainage, inhalation equipment, chemotherapy drug delivery pharmaceutical handling.</p>		

**ABW00017**

**Silicone Tubing, Tygon**

**TYGON**

**Description:** TYGON 3350 SANITARY SILICONE TUBING 1/4" ID 3/8" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For pharmaceutical and cosmetic processing, medical devices, cell harvest and media process systems, sterile fill lines, water injection (WFI) transfer, chemistry and blood analyzers, liquid chromatography.

**ABX00007**

**Silicone Tubing, Tygon**

**TYGON**

**Description:** VERSILIC SPX-50 HIGH STRENGTH SILICONE TUBING 1/18" ID 1/4" OD 1/16" WALL

Roll: 50 feet

Suggested applications:

For veterinary pharmaceuticals, respiratory and anesthesia equipment, sterile filling and processing, analytical instrumentation, cosmetic production, environmental remediation, beverage dispensing, food and dairy processing, appliance manufacturing, electronic equipment.

**AED00017**

**Silicone Tubing, Tygon**

**TYGON**

**Description:** TYGON 2075 ULTRA CHEMICAL RESISTANT TUBING 1/4" ID 3/8" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For fine specialty chemical production, battery and filling, clean and degreaser transfer system, X-ray processing, paint and solvent production, ink and printing fluid dispensing, hazardous materials handling, power generation sampling and drain lines.

**AEM02011**

**Polyurethane Tubing, Tygon**

**TYGON**

**Description:** TYGOTHANE C-210-A POLYURETHANE TUBING 3/16" ID 1/4" OD 1/32" WALL.

Roll: 100 feet

Suggested applications:

For food and cosmetic processing, abrasive and viscous transfer, lubrication and degreaser dispensing, pellet and powder transfer, pneumatic and sensory devices, instrumentation control lines, coolant recovery systems.

**AEM02012**

**Polyurethane Tubing, Tygon**

**TYGON**

**Description:** TYGOTHANE C-210-A POLYURETHANE TUBING 3/16" ID 5/16" OD 1/16" WALL.

Roll: 100 feet

Suggested applications:

For food and cosmetic processing, abrasive and viscous transfer, lubrication and degreaser dispensing, pellet and powder transfer, pneumatic and sensory devices, instrumentation control lines, coolant recovery systems.

**AFL00012****Industrial Grade Tubing, Tygon**

TYGON

**Description:** NORPRENE A-60-G INDUSTRIAL TUBING 3/16" ID 5/16" OD 1/16" WALL (ROLL/50FT) (TYGON)

Roll: 50 feet

Suggested applications:

For soap and disinfectant dispensing, printing ink transfer, caustic dispensing, plating and etching chemicals, waste water sampling, glass and window wash systems, vacuum pumps, cable insulation, abrasion-resistant sleeving.

**AFL00023****Industrial Grade Tubing, Tygon**

TYGON

**Description:** TYGON A-60-G NEOPRENE TUBING INDUSTRIAL GRADE 5/16" ID 1/2" OD 3/32" WALL.

Roll: 50 feet

Suggested applications:

For soap and disinfectant dispensing, printing ink transfer, caustic dispensing, plating and etching chemicals, waste water sampling, glass and window wash systems, vacuum pumps, cable insulation, abrasion-resistant sleeving.

**AJD00012****Inert Tubing, Tygon**

TYGON

**Description:** TYGON SE-200 INERT TUBING 3/16" ID 5/16" OD 1/16" WALL.

Roll: 50 feet

Suggested applications:

For Chemical processing, pharmaceutical processing and filling, paint and solvent and packaging, adhesive transfer lines, semiconductor processing, photographic processing equipment, beverage dispensing, ink and toner feed lines, fertilizer and pesticide distribution.

**AN800007****Pump Tubing, Tygon**

TYGON

**Description:** TYGON XL-60 TYGOPRENE PUMP TUBING 1/8" ID 1/4" OD 16" WALL.

Roll: 50 feet

Suggested applications:

For ink transfer, soap and detergent delivery, cold or hot beverage transfer and dispensing, food processing, laboratory applications requiring long pump life and/or low extractable, general chemical transfer and processing.

# Ajax Buffers & Solutions Guide

Ajax Finechem has produced a guide detailing the extensive range of commonly used solutions available for laboratory use.

Visit [www.ajaxfinechem.com/Marketing](http://www.ajaxfinechem.com/Marketing) to download the Buffers & Solutions Guide



Analytical Volumetric Solutions



General Purpose Reagents



Extra Pure Analytical Reagents



Spectroscopy Materials

## Dodeca-Tungstophosphoric Acid

CAS 12067-99-1  
 $H_3PO_4 \cdot 12WO_3 \cdot xH_2O$

### 566 Dodeca-Tungstophosphoric Acid UNIVAR

**Description:** White or off-white crystals or crystalline powder.

Maximum limit of impurities(%)

Insol.....	0.005	Fe.....	0.002
Cl.....	0.001	K.....	0.03
NO <sub>3</sub> .....	0.002	Na.....	0.2
SO <sub>4</sub> .....	0.01	NH <sub>4</sub> .....	0.002
Cu.....	0.001	Pb.....	0.002

Pack Size: 100g, 250g

### 567 Dodeca-Tungstophosphoric Acid TECHNICAL

Pack Size: 100g

## DL-Tyrosine

CAS 556-03-6  
 $C_9H_{11}NO_3 = 181.2$

### 3439 DL-Tyrosine UNILAB

**Description:** White amorphous silky needles  
Assay.....99.0% min.

Pack size: 25g

## L-Tyrosine

CAS 60-18-4  
 $C_9H_{11}NO_3 = 181.2$

### 3143 L-Tyrosine UNIVAR

**Description:** White crystalline powder  
Assay.....99.0% min.

Maximum limit of impurities(%)

H.M. (as Pb).....	0.0005	SO <sub>4</sub> .....	0.01
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Pack size: 100g

## Universal Indicator Solution

U.N Number.....1993

ADG Class.....3

Packing Group.....II



### 613 Universal Indicator Solution

LABCHEM

pH indicator solution.

Useful for demonstration purposes in schools etc.

pH 3.....Red

pH 4.....Orange

pH 5.....Orange/Yellow

pH 6.....Yellow/Green

pH 7.....Green

pH 8.....Dark Green

pH 9.....Turquoise

pH 10.....Blue

pH 11.....Dark Blue

Pack Size: 100mL, 500mL, 2.5L

### 2574 Universal Indicator Colour Charts

AJAX

Colour chart showing the nine colour tints when Ajax Cat 613 is added to buffers at 2% v/v concentration. Supplied in packs of 50.

Pack Size: x 50

## Uracil

CAS 66-22-8

 $C_4H_4N_2O_2 = 112.09$ 

### 3144 Uracil For Biochemistry

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Ash..... 0.05%

Pack Size: 25g

**Uranine** (See Fluorescein Sodium Salt Page 206 )

## Urea

CAS 57-13-6  
 $\text{NH}_2\text{CONH}_2 = 60.06$

### 817 Urea

UNIVAR

**Description:** Slightly hygroscopic white crystals or crystalline powder. In electrophoresis preps., urea is used in conjunction with other reagents to completely solubilize protein aggregates.

Assay.....99.0 - 100.5%  
M.P. ....132 - 135°C

Maximum limit of impurities(%)

Clarity & colour of sol.	To pass test	
Alkalinity	To pass test	Insoluble matter..... 0.01
Ammonium..... 0.05		R.A.I..... 0.01
H.M (as Pb)..... 0.001		Cl..... 0.0005
Biuret..... 0.1		SO <sub>4</sub> ..... 0.001
L.O.D..... 1.0		Fe..... 0.001

Conforms to ACS & BP

Pack Size: 500g, 5kg, 25kg

### 572 Urea

UNILAB

Assay(after drying).....98% min.  
M.P. ....131 - 135°C

Maximum limit of impurities(%)

Sulph. ash..... 0.1

Pack Size: 500g, 5kg, 25kg

Urethane (See Ethyl Carbamate Page 197 )

## DL-Valine

CAS 516-06-3  
 $\text{C}_9\text{H}_{11}\text{NO}_3 = 181.2$

### 3152 DL-Valine

UNIVAR

**Description:** White Crystalline powder

Assay.....99.0% min.

Maximum limit of impurities(%)

H.M. (as Pb)..... 0.001

Pack size: 25g, 100g

## Vanadium 1000ppm Single Element ICP Standard

U.N Number.....3264  
 ADG Class.....8  
 Packing Group.....II



### 2667 Vanadium 1000ppm Single Element ICP Standard

UNIPURE

A 1000 ppm Vanadium standard, ready for use.  
 V in 10% nitric acid. Traceable to NIST

Pack Size: 100mL

### 2595 Vanadium AAS Standard

SPECTROSOL

A 1000 ppm Vanadium standard, ready for use.  
 Each mL contains 1.00 +/- 0.005mg of V in 10% nitric acid. Traceable to NIST

Pack Size: 500mL

## Vanadium Pentoxide

CAS 1314-62-1  
 $V_2O_5 = 181.88$

U.N Number.....2862  
 ADG Class.....6.1  
 Packing Group.....III



### 2395 Vanadium Pentoxide

LABCHEM

Assay.....99.5% min.

Maximum limit of impurities(%)

L.O.I.....0.5

Fe.....0.02

H.M. (as Pb).....0.02

Cl.....0.02

SO<sub>4</sub>.....0.05

Pack Size: 100g

## Vanadyl Sulphate

CAS 27774-13-6  
 $VO_{SO_4} \cdot 5H_2O = 253.08$

### 3154 Vanadyl Sulphate

LABCHEM

Assay.....96% min.

Maximum limit of impurities(%)

Cl.....0.004

Fe.....0.002

Pack Size: 100g

## Vanillin

CAS 121-33-5  
 $\text{CH}_3\text{OC}_6\text{H}_3(\text{OH})\text{CHO} = 152.15$

### 574 Vanillin

UNIVAR

**Description:** White or cream-coloured, crystalline needles or powder, with a characteristic odour of vanilla.

Assay.....99.0% min.

M.P. ....81 – 83°C

Maximum limit of impurities(%)

Insol. (in alc.)..... 0.01

Sulph. ash..... 0.01

Pack Size: 100g

Villaumite (See Sodium Fluoride Page 404 )

Vitamin B (See Nicotinic Acid Page 307 )

Vitamin B5 (See Calcium-D-Pantothenate Page 125 )

Vitamin B6 (See Pyridoxine Hydrochloride Page 371 )

Vitamin C (See L-Ascorbic Acid Page 72 )

Vitamin H (See D-Biotin Page 89 )

## Vitex

### 620 Vitex Indicator For Iodometry

LABCHEM

0.3g of dry VITEX added to the solution to be titrated gives a deeper blue than starch-iodine.  
Sensitivity to iodine passes test.

Pack Size: 100g, 250g, 5kg

# Extra Pure Analytical Reagents



- ICP Standards
- Certified Reference Standards
- Extra Pure Acids

UNIPURE reagents are intended for highly sensitive applications such as trace metal analysis. They exceed ACS specifications and are ideal for use as reference standards.

- <> Acids for Trace Metal Analysis
- <> Certified Reference Standards
- <> Single Element ICP Standards
- <> Aqueous Standards specifically for ICP Instrumentation

Simply visit: [www.ajaxfinechem.com/Unipure](http://www.ajaxfinechem.com/Unipure)





## Water

CAS 7732-18-5  
H<sub>2</sub>O = 18.02

### 1604 Purified Water

TECHNICAL

**Description:** Clear Colourless, Odourless liquid  
Specific Conductivity 20 umho max

Maximum limit of impurities(%)  
UV absorbance (400-200nm). . . . . no peaks larger than 0.1 Abs

**Pack Size:** 2.5L, 20L, 200L

**Water Glass** (See Sodium Silicate Solution Page 423 )

**White Lead** (See Lead Carbonate Basic Page 253 )

**White Vitriol** (See Zinc Sulphate Page 484 )

**Wood Sugar** (See D(+)-Xylose Page 480 )

## Wright's Stain Solution

U.N Number.....1230  
ADG Class.....3  
SUB.....6.1  
Packing Group.....II



### 1851 Wright's Stain Solution

LABCHEM

0.25% in methanol  
**Pack Size:** 1L, 5L

**D-Xilopyranose** (See D(+)-Xylose Page 480 )

## Xylene Cyanol

CAS 2650-17-1  
C<sub>25</sub>H<sub>27</sub>N<sub>2</sub>O<sub>7</sub>S<sub>2</sub>Na = 554.61

### 257 Xylene Cyanol Ff C.I. 43535

LABCHEM

Redox indicator. In electrophoresis, used as a tracking dye during the separation of nucleic acids. It is used to monitor electrophoresis of low M. W. nucleic acids.

Transition EMF (@ pH = 0).....+ 1.05 V  
Colour change: Oxidized (orange) to reduced (green)

**Pack Size:** 25g

## Xylenes

CAS 1330-20-7  
 $C_6H_4(CH_3)_2 = 106.17$

U.N Number.....1307  
 ADG Class.....3  
 Packing Group.....III



### 576 Xylenes

UNIVAR

**Description:** Clear liquid which consists of the three isomers and ethylbenzene.

Assay(isomers + EBZ).....98.5% min.  
 Colour (APHA).....10 max.

Maximum limit of impurities(%)

Non-vol.....	0.002	Pb.....	0.000002
S cpds (as S).....	0.003	Mn.....	0.000002
Subs. darkened by $H_2SO_4$	To pass test	Ni.....	0.000002
$H_2O$ (K.F.).....	0.05	Sr.....	0.000002
Al.....	0.00001	Cd.....	0.000005
K.....	0.00001	Mg.....	0.000005
Ba.....	0.000002	Ca.....	0.000005
Cr.....	0.000002	Fe.....	0.000002
Co.....	0.000002	Na.....	0.000002
Cu.....	0.000002	Zn.....	0.000002

Conforms to ACS

Pack Size: 500mL, 2.5L, 10L, 20L, 200L

### 577 Xylenes

UNILAB

Density.....about 0.86g/mL  
 B.R.(95% min.).....136 - 144°C

Maximum limit of impurities(%)

Non-vol.....	0.01	S cpds (as S).....	0.0005
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Pack Size: 2.5L, 10L, 20L

### 2342 Xylenes

LABCHEM

**Description:** Clear, colourless liquid with a characteristic odour.

Density @ 20°C.....about 0.86g/mL  
 B.R. ....136 - 144°C

Maximum limit of impurities(%)

Sulphur compounds (as S).....	0.001	Foreign odour.....	To pass test
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Pack Size: 5L, 20L

### 1554 Xylenes

TECHNICAL

Density (@15°C) .....0.865 - 0.875g/mL  
 B.R. ....137 - 143°C

Pack Size: 2.5L

### 5001 Xylenes Solvent for Histopathology

LABCHEM HP

Density.....about 0.86g/mL

Pack Size: 2.5L, 10L, 20L

**p-Xylene**

CAS 106-42-3

Synonyms: 1,4-Dimethyl benzene

 $C_8H_{10} = 106.17$ 

U.N Number.....1307

ADG Class.....3

Packing Group.....III

**3147 p-Xylene For Synthesis**

LABCHEM

Assay.....>99%  
 Density @ 20°C.....0.860 – 0.862  
 R.I. @ 20°C.....1.4958

Pack Size: 500mL

**m-Xylene**

CAS 108-38-3

Synonym: 1,3-Dimethylbenzene

 $C_8H_{10} = 106.17$ 

U.N Number.....1307

ADG Class.....3

Packing Group.....III

**3146 m-Xylene For Synthesis**

LABCHEM

Assay.....99% min.

Maximum limit of impurities(%)

Free acid(HCl).....0.002

Ethylenebenzene.....0.1

o-Xylene.....0.5

p-Xylene.....0.3

Toluene.....0.1

Pack Size: 500mL

**o-Xylene**

CAS 95-47-6

Synonyms: 1,2-Dimethyl benzene

 $C_8H_{10} = 106.17$ 

U.N Number.....1307

ADG Class.....3

Packing Group.....III

**3145 o-Xylene For Synthesis**

LABCHEM

Assay.....>99%  
 Density @ 20°C.....0.878 – 0.881  
 R.I. @ 20°C.....1.5054

Pack Size: 500mL

**Xylenol Orange**

CAS 1611-35-4

 $C_{31}H_{32}N_2O_{13}S = 672.66$ **3148 Xylenol Orange**

LABCHEM

Metal indicator.

Pack Size: 1g

Xylol (See Xylene Page 478 )

## D(+)-Xylose

CAS 58-86-6  
C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> = 150.13

### 662 D(+)-Xylose

UNILAB

**Description:** Colourless needles or a white crystalline powder; odourless or almost odourless.

Spec.optical rotn. ....+18.5 to +19.5°

M.P. ....148 - 152°C

Maximum limit of impurities(%)

Colour & clarity of soln.....To pass test

Sulph. ash..... 0.1

L.O.D..... 0.5

Acidity.....0.4 mmol H

Cl..... 0.033

H.M.(as Pb)..... 0.002

Chemical and physical parameters conform to BP

Pack Size: 100g, 500g

## Zinc 1000ppm Single Element ICP Standard

U.N Number.....3264

ADG Class.....8

Packing Group.....III



### 2651 Zinc 1000ppm Single Element ICP Standard

UNIPURE

Contains 1000 ppm Zn in 0.5% nitric acid.

Pack Size: 100 ml

### 2628 Zinc AAS Standard

SPECTROSOL

A 1000 ppm zinc standard, ready for use. Each mL contains 1.00 +/-0.005mg of Zn in 0.5% nitric acid.  
Traceable to NIST

Pack Size: 500mL

## Zinc, Powder

CAS 7440-66-6  
Zn = 65.37

U.N Number.....1436

ADG Class.....4.3

Packing Group.....II



### 2312 Zinc, Powder

UNIVAR

**Description:** fine grey powder free from all but small aggregates.

Assay.....99.9% min.

Maximum limit of impurities(%)

Insol. (in acid)..... 0.05

N cpds (as N)..... 0.01

Fe..... 0.002

Subs.red.KMnO<sub>4</sub> (as O)..... 0.0015

Pb..... 0.003

Cd..... 0.003

Sn..... 0.001

Pack Size: 500g

### 538 Zinc, Powder

TECHNICAL

Pack Size: 500g

## Zinc, Metal

CAS 7440-66-6  
Zn = 65.39

### 675 Zinc (Metal) Granular Suitable for As estimation UNIVAR

Assay (by complexometry).....99.9% min.

Maximum limit of impurities(%)

Pb.....	0.005	Fe.....	0.002
Sn.....	0.001	Cd.....	0.0005
Cu.....	0.001	As.....	0.00001

Pack Size: 500g

### 1562 Zinc, Shot UNILAB

Assay.....99.9% min.

Maximum limit of impurities(%)

As.....	0.00001	Fe.....	0.02
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Pack Size: 500g

### 2391 Zinc, Foil LABCHEM

Maximum limit of impurities(%)

Iron.....	0.002
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Pack Size: 500g

## Zinc Acetate

CAS 5970-45-6  
(CH<sub>3</sub>COO)<sub>2</sub>Zn.2H<sub>2</sub>O = 219.49

### 581 Zinc Acetate UNIVAR

**Description:** Colourless or white crystals with a faint odour of acetic acid.

Assay.....99.5% min.

pH (5% soln.).....6.0 – 6.6

Maximum limit of impurities(%)

Insol.....	0.003	Cu.....	0.0005
Cl.....	0.001	Fe.....	0.0005
N cpds (as N).....	0.002	K.....	0.005
SO <sub>4</sub> .....	0.005	Mn.....	0.001
As.....	0.00004	Na.....	0.005
Ca.....	0.002	Pb.....	0.001
Cd.....	0.001		

Pack Size: 500g, 5kg

# Laboratory Reagents



UNILAB® reagents are suitable for routine laboratory applications. The physical and chemical parameters conform to British Pharmacopoeia (BP) standards. Discover more: [www.ajaxfinechem.com/Unilab](http://www.ajaxfinechem.com/Unilab)

## Zinc Bromide

CAS 7699-45-8  
ZnBr<sub>2</sub> = 225.20

U.N Number.....2811  
ADG Class.....6.1  
Packing Group.....III



### 2468 Zinc Bromide

UNILAB

Assay.....98.0% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.01	K.....	0.01
Ba.....	0.001	Mg.....	0.01
Ca.....	0.01	Na.....	0.01
Fe.....	0.001	Pb.....	0.005

Pack Size: 500g

## Zinc Carbonate Basic

CAS 3486-35-9  
Approx. ZnCO<sub>3</sub>·2ZnO·3H<sub>2</sub>O

### 1518 Zinc Carbonate Basic

UNILAB

Assay (as Zn).....53% min.

Maximum limit of impurities(%)

Cl.....	0.3	SO <sub>4</sub> .....	1.0
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Pack Size: 500g

## Zinc Chloride

CAS 7646-85-7  
ZnCl<sub>2</sub> = 136.28

U.N Number.....2331  
ADG Class.....8  
Packing Group.....III



### 1687 Zinc Chloride

UNILAB

Assay.....95% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.05	Fe (typical).....	0.003
ZnO (typical).....	2	Cu (typical).....	0.001
Pb (typical).....	0.003		

Pack Size: 500g, 5kg, 25kg

### 959 Zinc Chloride

LABCHEM

Assay.....94% min.

Maximum limit of impurities(%)

SO <sub>4</sub> .....	0.1
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Pack Size: 500g

Zinc Hydroxide Carbonate (See Zinc Carbonate Page 482 )



## 1270 Zinc Oxide

UNILAB

Assay(after ignition @ 500°C).....99.0 - 100.5%

Maximum limit of impurities(%)

L.O.I. (@500DegC)..... 1.0  
CO<sub>3</sub> & Insol. (in HCl).....To pass test  
Alkalinity..... 3 mmol OH  
As..... 0.0005

Fe..... 0.0200  
Pb..... 0.0050  
Cd..... 0.0010

Chemical and physical parameters conform to BP

Pack Size: 500g

## Zinc Stearate

CAS 557-05-1

## 550 Zinc Stearate Pure

LABCHEM

Assay (as Zn, on dried basis).....10.37 min.  
Solubility..... Insoluble in Water  
M.P. ....118 – 122°C  
Bulk Density.....0.18 gm/ml  
Identification..... Complies

Maximum limit of impurities(%)

Free fatty acids..... 0.41  
L.O.D..... 0.21

Ash content..... 13.54

Pack Size: 500g

## Zinc Sulphate

CAS 7446-20-0  
ZnSO<sub>4</sub>.7H<sub>2</sub>O = 287.54

U.N Number.....3077  
ADG Class.....9  
Packing Group.....III



## 583 Zinc Sulphate

UNIVAR

Description: Colourless, efflorescent crystals.

Assay.....99.0 - 103.0%  
pH (5% soln. @ 25°C).....4.4 – 6.0

Maximum limit of impurities(%)

Insol..... 0.01  
Cl..... 0.0005  
Cd..... 0.0005  
Cu..... 0.0005  
Fe..... 0.0005  
NO<sub>3</sub>..... 0.002  
As..... 0.0001

Ca..... 0.001  
Pb..... 0.001  
K..... 0.001  
Na..... 0.005  
NH<sub>4</sub>..... 0.001  
Mn..... 0.0003  
Mg..... 0.005

Conforms to ACS

Pack Size: 500g, 5kg, 25kg



**584** **Zinc Sulphate** UNILAB

**Description:** Colourless transparent crystals, or a white crystalline powder; odourless. Efflorescent.

Assay.....99.0 - 104.0%  
 pH (5% soln.).....4.4 – 5.6

Maximum limit of impurities(%)

Clarity and colour of soln..... To pass test

Cl..... 0.030 Fe..... 0.010

Chemical and physical parameters conform to BP

**Pack Size:** 500g, 5kg, 25kg

**969** **Zinc Sulphate** LABCHEM

Assay.....98.0%

Maximum limit of impurities(%)

Mg..... 0.002 Cl..... 0.002

**Pack Size:** 500g

**Zirconium Dioxide**

CAS 1314-23-4  
 ZrO<sub>2</sub> = 123.22

**3149** **Zirconium Dioxide** UNILAB

Assay.....97% min.

Maximum limit of impurities(%)

SiO<sub>2</sub>..... 0.25 Fe (as Fe<sub>2</sub>O<sub>3</sub>)..... 0.07  
 TiO<sub>2</sub>..... 0.16 L.O.I. @ 1000°C..... 2.0 – 3.5

**Pack Size:** 500g

**Zirconium (IV) Oxide Chloride** (See Zirconyl(IV) Chloride Octohydrate Page 485 )

**Zirconyl(IV) Chloride Octohydrate**

CAS 13520-92-8  
 Cl<sub>2</sub> O Zr.8H<sub>2</sub>O = 322.25

**2466** **Zirconyl(IV) Chloride Octohydrate, 98+%** LABCHEM

Assay.....98.0% min.

**Pack Size:** 100g

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5 Caribbean Dv, Scoresby Vic 3179

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☎ Fax: 1800-067-639

@ Email: AUinfo@thermofisher.com

🌐 Website: www.ajaxfinechem.com

## Thermo Fisher Scientific New Zealand

244 Bush Road, Albany, North Shore City 0632

☎ Phone: 0800-933-966

☎ Fax: 0800-329-246

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