

Реагенты для молекулярной биологии

Технические характеристики

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2-MERCAPTOETHANOL 99% AR/ MOLECULAR BIOLOGY

Assist in solubilizing proteins for electrophoretic separation by reducing disulphide linkage. May also reduce excess oxidative polymerization catalysts. β -Mercaptoethanol, 2-Hydroxyethylmercaptan, BME, Thioethylene glycol

Product Code.	01653	Grade	AR/ Molecular Biology
Purity	99%	CAS No.	60-24-2
Molecular Formula	C ₂ H ₆ OS	Molecular Weight	78.13
H.S.Code	2930.90990	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Pale pinkish colour	Odour	Disagreeable odor
pH value	4.5 - 6 at 500 g/l at 20 °C	Melting point/ Freezing point [°C]	< -50 °C	Auto-ignition temperature [°C]	295 °C
Flash point [°C]	68 °C	Boiling point [°C]	157 °C	Vapour pressure [20°C]	0.76 hPa at 20 °C
Vapour density	2.7	Density [g/cm ³]	1.114	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.056	Explosion limits - upper [%]	18%	Explosion limits -lower [%]	2.30%

Packaging

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Specification

Appearance	Clear colorless to light yellow liquid
Purity (by GC)	Min 99.0%

Cadmium (Cd)	Max 0.00001%
Cobalt (Co)	Max 0.00001%
Chromium (Cr)	Max 0.00001%
Copper (Cu)	Max 0.00001%
Iron (Fe)	Max 0.00005%
Manganese (Mn)	Max 0.00001%
Nickel (Ni)	Max 0.00001%
Lead (Pb)	Max 0.00001%
Zinc (Zn)	Max 0.00001%
DNAase/RNAase/Proteases	Not detectable

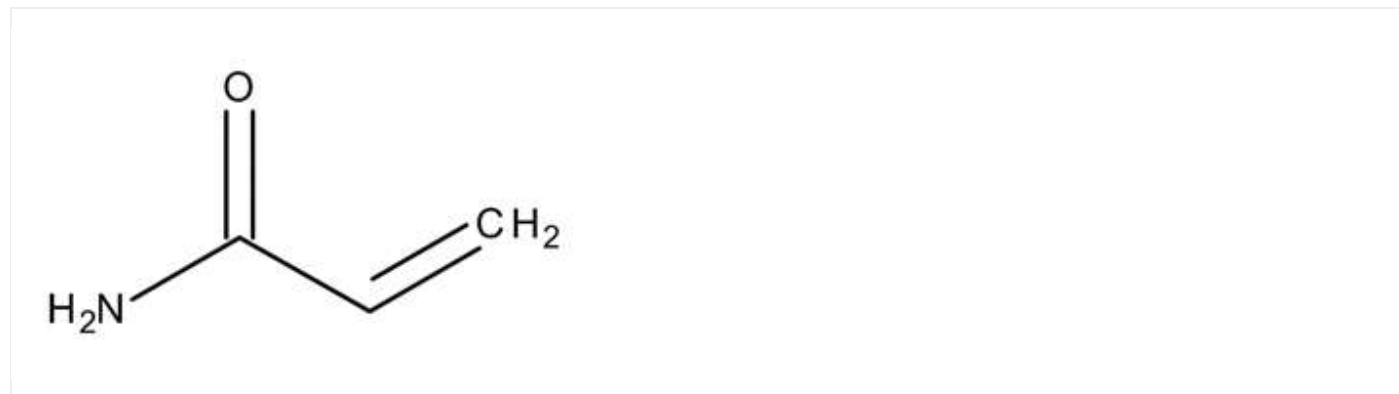
Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS09 Signal Word: Danger UN No.: 2966 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H301-H310-H315-H317-H318-H330-H410 Precaution Statement: P260-P273-P280-P284-P301 + P310-P302 + P350

ACRYLAMIDE 99% MOLECULAR BIOLOGY

Prop-2-enamide; Acrylic acid; Ethylenecarboxamide; Propenoic acid; Propenamide

Product Code.	00057	Grade	
Purity	99%	CAS No.	79-06-1
Molecular Formula	C3H5NO	Molecular Weight	71.08
H.S.Code	2924.19000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	83 - 85°C	Decomposition point [°C]	84°C	Auto-ignition temperature [°C]	240°C
Boiling point [°C]	125°C	Vapour pressure [20°C]	0.007 mm Hg at 20 °C	Vapour pressure mm/Hg	0.007 mm Hg at 20 °C
Vapour density	2.45	Density [g/cm3]	1.122	Solubility in water [% weight]	Soluble

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric, after saponification)	Min 99%

Solubility (2.5 g in 10 mL of water)	Clear colorless solution
Melting range	82-86°C
Free acid (as acrylic acid)	Max 0.005%
Conductivity (35% solution)	Max 10 umhos/cm
Iron (Fe)	Max 0.0001%
DNAase/RNAase/Proteases	Not detected

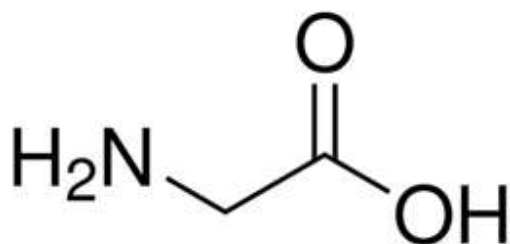
Safety Information and Hazard Symbols

 
Symbol: GHS06, GHS08 Signal Word: Danger UN No.: 2074 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H312-H315-H317-H319-H332-H340-H350-H361f-H372 Precaution Statement: P201-P280-P301 + P310-P305 + P351 + P338-P308 + P313

AMINO ACETIC ACID 99% AR (GLYCINE)

Aminoacetic acid; Aminoethanoic acid; Glycocol

Product Code.	00144	Grade	AR
Purity	99%	CAS No.	56-40-6
Molecular Formula	H ₂ NCH ₂ COOH	Molecular Weight	75.07
H.S.Code	2922.49100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4	Melting point/ Freezing point [°C]	240 °C	Density [g/cm ³]	1.16
Solubility in water [% weight]	25g/100 ml water @ 250C				

Packaging



Specification

Appearance	White crystalline powder
Assay (by HClO ₄ titration)	99.0-101.0%
Identification	Passes test

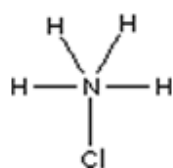
Solubility	Passes test
Appearance of solution	Passes test
pH (5 % solution)	5.9-6.3
Insoluble matter in water	Max 0.005%
Hydrolizable substance	Passes test
Substance darkened by H2SO4	Passes test
Chloride (Cl)	Max 0.003%
Heavy metal (as Pb)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Loss on drying (at 105°C)	Max 0.2%
Residue on ignition	Max 0.05%
Ammonium (NH4)	Max 0.005%
Iron (Fe)	Max 0.001%
Arsenic (As)	Max 0.0001%
Copper (Cu)	Max 0.0005%
Nickel (Ni)	Max 0.0005%
Lead (Pb)	Max 0.0005%

Safety Information and Hazard Symbols

AMMONIUM CHLORIDE 99.5% MOLECULAR BIOLOGY

Salmiac

Product Code.	00200	Grade	
Purity	Min. 99.5%	CAS No.	12125-02-9
Molecular Formula	NH ₄ Cl	Molecular Weight	53.49
H.S.Code	2827.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.5 - 5.5	Melting point/ Freezing point [°C]	340°C	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White crystalline powder
Assay	Min 99.5%
DNases, RNases, phosphatases & proteases	None detected
Insoluble matter	Passes filter test
Solubility (1 M in water)	Complete, Colorless

pH (5% solution)	4.5-5.5
Nitrate (NO ₃)	Max 0.0005%
Phosphate (PO ₄)	Max 0.0002%
Sulphate (SO ₄)	Max 0.0005%
UV absorbance 1 M in water at:	
260 nm	Max 0.021
280 nm	Max 0.019

Safety Information and Hazard Symbols

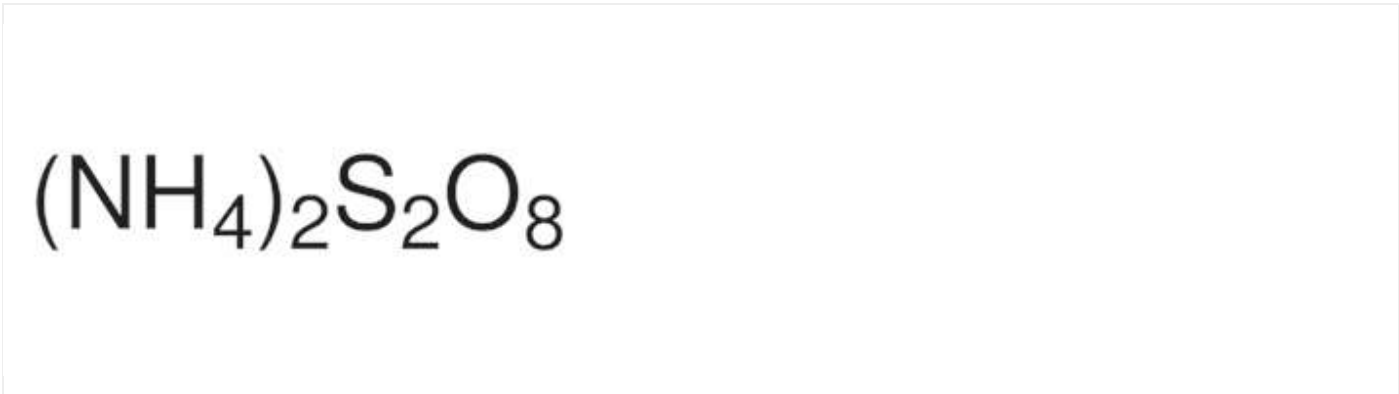


Symbol: GHS07
 Signal Word: Warning
 Hazardous Statement: H302-H319
 Precaution Statement: P305 + P351 + P338

AMMONIUM PERSULPHATE 98% MOLECULAR BIOLOGY

Ammonium peroxodisulphate, Ammonium peroxydisulphate

Product Code.	00228	Grade	
Purity	Min. 98%	CAS No.	7727-54-0
Molecular Formula	(NH4)2S2O8	Molecular Weight	228.19
H.S.Code	2833.40000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	1 - 2	Melting point/ Freezing point [°C]	120°C	Vapour density	7.88
Density [g/cm3]	1.98	Solubility in water [% weight]	228 g/l at 20 °C	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 3

Packaging



Specification

Appearance	White crystalline powder
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Assay	Min 98%
DNAase/RNAase/Proteases	Not detected
Solubility (in water; 20°C)	582 g/l (H ₂ O)
Free acid	Max 0.1%
Melting point	Approx.120 deg C
pH (5% solution in water; 20°C)	3 - 4
Residue on ignition	Max 0.05%
Chlorate (ClO ₃)	Max 0.001%
Chloride (Cl)	Max 0.001%
Iron (Fe)	Max 0.001%
Manganese (Mn)	Max 0.00005%
Lead (Pb)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS03, GHS07, GHS08

Signal Word: Danger

UN No.: 1444

IMCO Class No.: 5.1

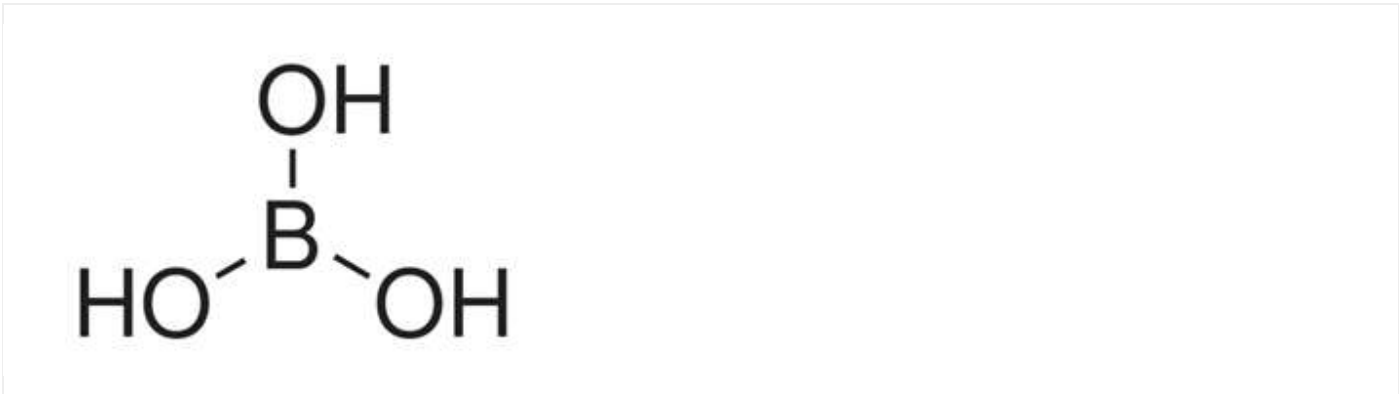
Packing Group: III

Hazardous Statement: H272-H302-H315-H317-H319-H334-H335

Precaution Statement: P220-P261-P280-P305 + P351 + P338-P342 + P311

BORIC ACID (CRYSTAL)
Orthoboric Acid

Product Code.	00455	Grade	
Purity	99.5%	CAS No.	10043-35-3
Molecular Formula	H3BO3	Molecular Weight	61.83
H.S.Code	2810.00200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	3.8 - 4.8	Melting point/ Freezing point [°C]	160 °C	Boiling point [°C]	300 °C
Vapour pressure [20°C]	3.5 hPa at 20 °C	Density [g/cm3]	1.44	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White powder/crystals/crystalline powder
Assay (acidimetric)	Min 99.5%
DNases (exo and endonucleases)	None detected
Insoluble matter	Passes filter test

Non volatile substances in MeOH/HCl	Max 0.05%
Phosphatase	None detected
RNases	None detected
Loss on drying (at 120°C)	Max 0.5%
Solubility (1 M in water)	Complete,colorless
pH (saturated solution in water)	3.6 - 4.6
Chloride (Cl)	Max 0.0005%
Phosphate (PO4)	Max 0.0005%
Sulphate (SO4)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%
Arsenic (As)	Max 0.00005%
Sodium (Na)	Max 0.005%
UV absorbance 1 M in water	
Wavelength	Absorption Max.
260 nm	0.015
280 nm	0.010

Safety Information and Hazard Symbols



Symbol: GHS08

Signal Word: Danger

Hazardous Statement: H360

Precaution Statement: P201-P308 + P313

CALCIUM CHLORIDE DIHYDRATE 99.5% MOLECULAR BIOLOGY

Product Code.	00638	Grade	
Purity	99%	CAS No.	10035-04-8
Molecular Formula	CaCl2.2H2O	Molecular Weight	147.02
H.S.Code	2827.20000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	5 - 8	Melting point/ Freezing point [°C]	176 °C	Initial boiling point [°C]	> 1600°C
Vapour pressure [20°C]	0.01 hPa at 20 °C	Density [g/cm3]	1.85	Solubility in water [% weight]	147 g/l at 20 °C - completely soluble

Packaging



Specification

Appearance	White hygroscopic crystalline powder
Assay (titration)	Min 99%
Solubility (20°C)	1000 g/l (H2O)
Melting point	175°C
DNAase/RNAase/Proteases	Not detectable
Fluoride (F)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Aluminium (Al)	Max 0.0001%
Arsenic (As)	Max 0.0001%

Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.0005%
Zinc (Zn)	Max 0.0005%

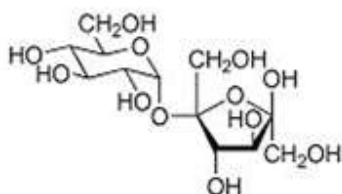
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H319 Precaution Statement: P305 + P351 + P338

D (+) SUCROSE 99.5% MOLECULAR BIOLOGY

α -D-Glucopyranosyl β -D-fructofuranoside; β -D-Fructofuranosyl- α -D-glucopyranosid;; D(+)-Saccharose; Sugar

Product Code.	02581	Grade	Molecular Biology
Purity	99.5%	CAS No.	57-50-1
Molecular Formula	C ₁₂ H ₂₂ O ₁₁	Molecular Weight	342.30
H.S.Code	1701.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	5.5 - 7 at 342 g/l at 25 °C	Melting point/ Freezing point [°C]	185 - 187 °C	Flash point [°C]	93.3°C
Solubility in water [% weight]	342 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-3.7		

Packaging

Specification

Appearance	Colorless crystalline powder
DNAase/RNAase/Proteases	Not detectable
Purity (by HPLC)	Min 99.5%
Heavy metal (as Pb)	Max 0.0005%
Glucose (TLC)	Max 0.5%

Water (by KF)	Max 0.1%
Sulphate (SO4)	Max 0.005%

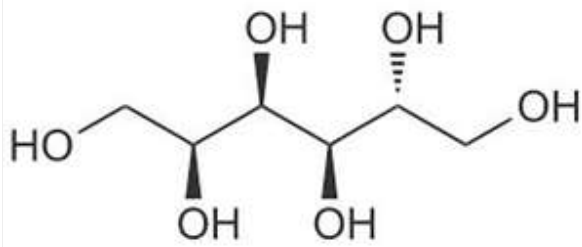
Safety Information and Hazard Symbols

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D-SORBITOL 98% MOLECULAR BIOLOGY

D-Glucitol

Product Code.	02542	Grade	
Purity	98%	CAS No.	50-70-4
Molecular Formula	C6H14O6	Molecular Weight	182.17
H.S.Code	2905.44000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	5 - 7 at 182 g/l at 25 °C	Melting point/ Freezing point [°C]	98 - 100 °C	Boiling point [°C]	295°C
Vapour pressure mm/Hg	< 0.1 mm Hg at 25 °C	Density [g/cm3]	1.489	Solubility in water [% weight]	182 g/l at 20 °C - completely soluble

Packaging

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Specification

Appearance	White crystalline powder
DNAase/RNAase/Proteases	Not detectable
Assay (titration)	Min. 98.0%
Appearance of solution	Complies
Heavy metal (as Pb)	Max. 0.001%

Organic volatile impurities (By GC)	Complies
Sulphated ash	Max. 0.1%
Water (by KF)	Max. 1.5%
Chloride (Cl)	Max. 0.005%
Sulphate (SO4)	Max. 0.01%
Arsenic (As)	Max. 0.0003%
Nickel (Ni)	Max. 0.0001%
Lead (Pb)	Max. 0.0001%

Safety Information and Hazard Symbols

ETHYLENEDIAMINE TETRA ACETIC ACID DISODIUM SALT DIHYDRATE 99%
MOLECULAR BIOLOGY GRADE
EDTA disodium salt

Product Code.	01168	Grade	Molecular Biology
Purity	99%	CAS No.	6381-92-6
Molecular Formula	C10H14N2Na2O8.2H2O	Molecular Weight	372.24
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4 - 5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	248 °C	Flash point [°C]	> 100 °C
Solubility in water [% weight]	100 g/l at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder
Assay (titration)	Min 99%
Loss on dryig (at 150°C; 6 hrs)	9 - 10%
pH (5% solution in water; 20°C)	4 - 5
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%

Arsenic (As)	Max 0.0005%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.001%
DNAase/RNAase/Proteases	Not detected

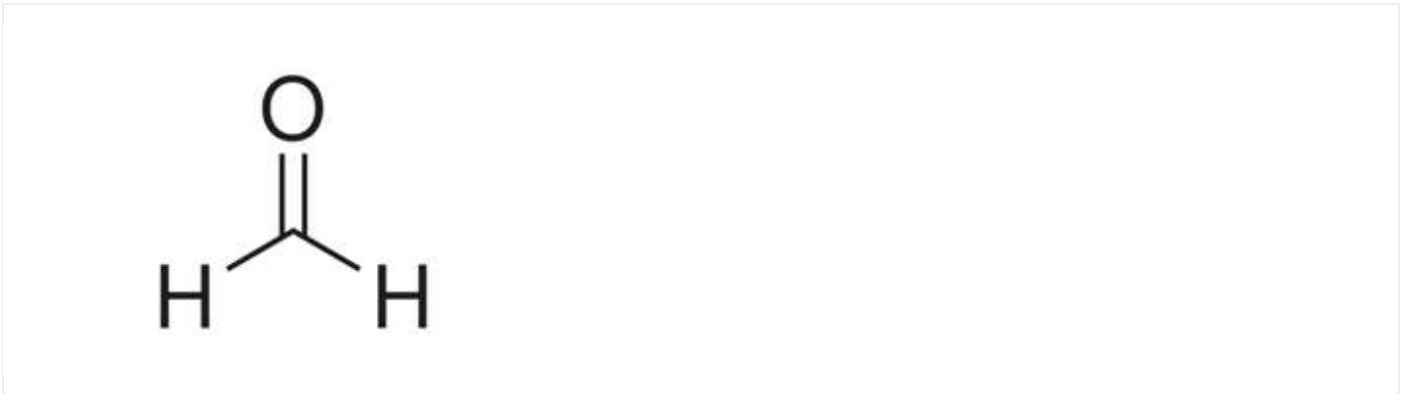
Safety Information and Hazard Symbols

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FORMALDEHYDE SOLUTION 37% W/V MOLECULAR BIOLOGY GRADE

Formalin

Product Code.	01245	Grade	
Purity	37%	CAS No.	50-00-0
Molecular Formula	HCHO	Molecular Weight	30.03
H.S.Code	2912.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorles	Odour	Pungent
pH value	2.8	Melting point/ Freezing point [°C]	-15°C	Auto-ignition temperature [°C]	300 °C
Flash point [°C]	64 °C	Boiling point [°C]	96°C	Vapour pressure [20°C]	1.3 mm Hg @ 20°C
Vapour pressure mm/Hg	1.3 mm Hg @ 20°C	Vapour density	1.04	Density [g/cm3]	1.08
Solubility in water [% weight]	Infinitely soluble	Explosion limits - upper [%]	73%	Explosion limits -lower [%]	7%

Packaging

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Specification

Appearance	Clear colorless solution with strong pungent odor
Colour scale	Max 10 APHA
Suitability (for use in formaldehyde-agarose gel electrophoresis of RNA)	Passes test
Assay	36.5-38.0%

Methanol (CH ₃ OH)	10.0-15.0%
Formic acid	Max 0.03%

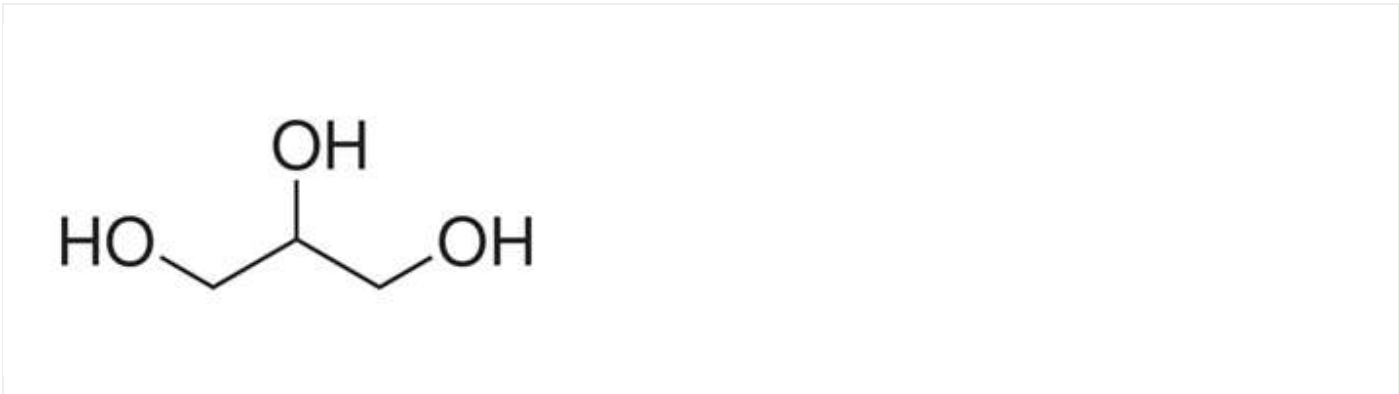
Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08 Signal Word: Danger UN No.: 2209 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H301-H311-H314-H317-H331-H335-H351-H370 Precaution Statement: P260-P280-P301 + P310-P305 + P351 + P338-P310

GLYCEROL MOLECULAR BIOLOGY

1,2,3-Propanetriol; Glycerin

Product Code.	01293	Grade	
Purity	Min. 99.5%	CAS No.	56-81-5
Molecular Formula	C3H8O3	Molecular Weight	92.09
H.S.Code	2905.45000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
pH value	5.5 - 8	Melting point/ Freezing point [°C]	20 °C	Auto-ignition temperature [°C]	370°C
Flash point [°C]	160 °C	Boiling point [°C]	182 °C	Vapour pressure mm/Hg	0.0033 mm Hg at 50 °C
Vapour density	3.18	Density [g/cm3]	1.25	Solubility in water [% weight]	Soluble in water
Explosion limits -lower [%]	0.90%				

Packaging

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Specification

Appearance	Clear colorless viscous liquid
Residue on ignition	Max 0.1%
Solubility (5 M in water; 20°C)	Complete, colorless
pH (5 M solution in water; 25°C)	5.5 - 8.0

Density (at 25°C)	About 1.262 g/ml
Refractive index (20°C; 589 nm)	~1.474
Ammonium (NH ₄)	Max 0.0005%
Chloride (Cl)	Max 0.0001%
Cobalt (Co)	Max 0.0001%
Sodium (Na)	Max 0.002%
Sulphate (SO ₄)	Max 0.001%
Chromium (Cr)	Max 0.0001%
Nickel (Ni)	Max 0.0001%
Silver (Ag)	Max 0.0005%
Copper (Cu)	Max 0.0001%
Lead (Pb)	Max 0.0001%
Aluminium (Al)	Max 0.0001%
Iron (Fe)	Max 0.0001%
Strontium (Sr)	Max 0.0001%
Arsenic (As)	Max 0.00001%
Potassium (K)	Max 0.002%
Titanium (Ti)	Max 0.0005%
Barium (Ba)	Max 0.0001%
Lithium (Li)	Max 0.0001%
Zinc (Zn)	Max 0.0001%
Bismuth (Bi)	Max 0.0001%
Magnesium (Mg)	Max 0.0001%
Calcium (Ca)	Max 0.0005%
Manganese (Mn)	Max 0.0001%
Cadmium (Cd)	Max 0.0001%
Molybdenum (Mo)	Max 0.0001%
Absorption 5M in H ₂ O	

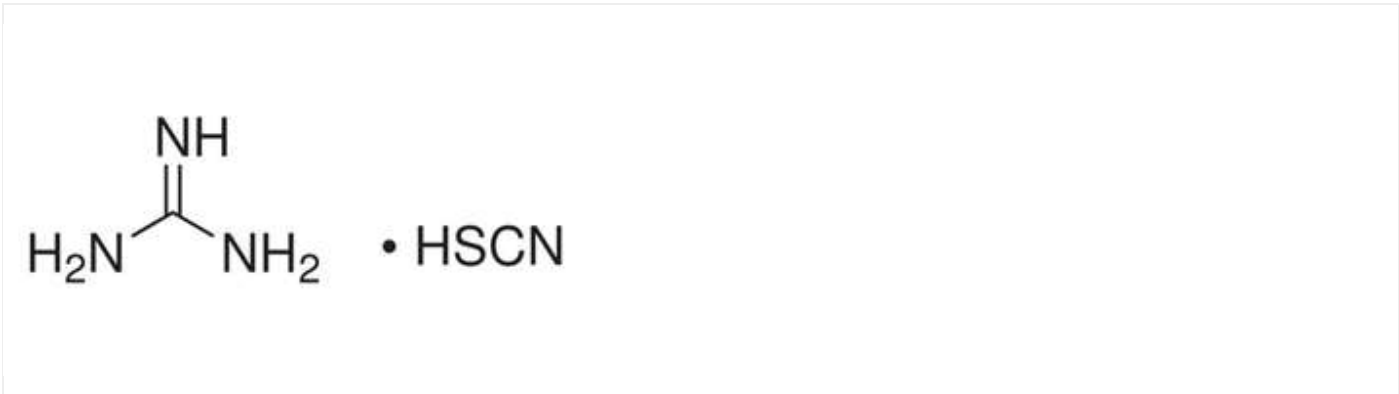
at 260 nm	Max 0.05
at 280 nm	Max 0.04
Insoluble matter	Passes filter test
DNases (exo and endonucleases)	None detected
RNases	None detected
Phosphatase	None detected
Proteases	None detected

Safety Information and Hazard Symbols

GUANIDINE THIOCYANATE 99% MOLECULAR BIOLOGY

Guanidinium rhodanide; Guanidinium thiocyanate

Product Code.	01310	Grade	Molecular Biology
Purity	99%	CAS No.	593-84-0
Molecular Formula	C2H6N4S	Molecular Weight	118.16
H.S.Code	2925.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.8 - 6.0	Melting point/ Freezing point [°C]	117 °C	Density [g/cm3]	1.29
Solubility in water [% weight]	Soluble in water				

Packaging

Specification

Appearance	White crystalline powder
Assay (argentometric)	Min 99.0%
Identity (IR)	Passes test
Melting range	117 - 120°C
Copper (Cu)	Max 0.00005%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.00005%

Zinc (Zn)	Max 0.0002%
Sulphated ash	Max 0.05%
RNases	Not detectable

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 1759 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H302 + H312 + H332-H314-H412 Precaution Statement: P273-P280-P305 + P351 + P338-P310 Risk Statement: 20/21/22-32-34-52/53 Safety Statement: 13-26-36/37/39-45-61

ISO

PROPYL

B-D-1-THIOGALACTO

PYRANOSIDE

99%

MOLECULAR

BIOLOGY

IPTG ;non metabolizable galactose analog

Product Code.	01478	Grade	Molecular Biology
Purity	99%	CAS No.	367-93-1
Molecular Formula	C9H18SO5	Molecular Weight	238.30
H.S.Code	2932.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to off white	Melting point/ Freezing point [°C]	105 °C
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White to off-white powder
Assay	Min 99%
Residue on ignition	Max 0.2%
Loss on drying	Max 6%
Specific optical rotation ([α] _{20/546} ; on dried substance)	-37.5+/-0.5°
Specific optical rotation ([α] _{20/D} ; on dried substance)	-31.5+/-0.5°

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08

Signal Word: Warning

Hazardous Statement: H319-H351

Precaution Statement: P281-P305 + P351 + P338

Acetic acid magnesium salt

$$\left[\text{H}_3\text{C}-\text{C}(=\text{O})\text{O}^- \right]_2 \text{Mg}^{2+}$$

Packaging

Appearance	White crystalline powder
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MAGNESIUM CHLORIDE (HEXAHYDRATE) (FOR MOLECULAR BIOLOGY)

Magnesium dichloride hexahydrate

Product Code.	01591	Grade	
Purity	99.5%	CAS No.	7791-18-6
Molecular Formula	MgCl2.6H2O	Molecular Weight	203.30
H.S.Code	2827.31000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7	Melting point/ Freezing point [°C]	118°C	Density [g/cm3]	1.59
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White crystalline powder
Assay (titration)	Min 99.5%
Melting point	About 116 deg C
pH (5% solution in water; 20°C)	5.0 - 6.5
Solubility in water at 20°C	About 1670 g/L
DNAase/RNAase/Proteases	Not detectable
Water (by KF)	51 - 55%
Ammonium (NH4)	Max 0.002%
Phosphate (PO4)	Max 0.0005%
Sulphate (SO4)	Max 0.002%
Arsenic (As)	Max 0.0001%
Barium (Ba)	Max 0.002%
Calcium (Ca)	Max 0.005%

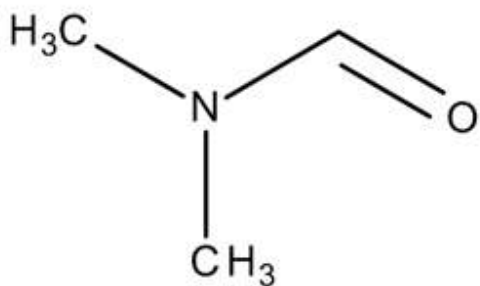
Iron (Fe)	Max 0.0005%
Potassium (K)	Max 0.001%
Manganese (Mn)	Max 0.0005%
Sodium (Na)	Max 0.001%
Lead (Pb)	Max 0.0005%

Safety Information and Hazard Symbols

N,N-DIMETHYL FORMAMIDE 99.5% MOLECULAR BIOLOGY

DMF; Dimethylformamide

Product Code.	01038	Grade	
Purity	99%	CAS No.	68-12-2
Molecular Formula	H.CON(CH ₃) ₂	Molecular Weight	73.09
H.S.Code	2924.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fishy pungent & amine like
pH value	6.7	Melting point/ Freezing point [°C]	-61 °C	Auto-ignition temperature [°C]	445°C
Flammability (solid, gas)	Flammable	Flash point [°C]	58°C	Boiling point [°C]	153 °C
Evaporation rate	0.17	Vapour pressure [20°C]	2.7 @ 2°C	Vapour density	2.52
Density [g/cm ³]	0.949	Solubility in water [% weight]	Complete	Partition coefficient Log Pow octanol / water at 20°C	1.01
Explosion limits - upper [%]	15.20%	Explosion limits -lower [%]	2.20%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (GC area %)	Min 99.5%
Boiling Point	153 deg C

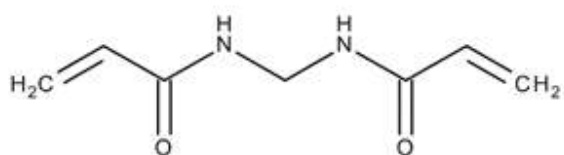
Density (d20°C/4°C)	0.944
Melting point	-60 deg C
Refractive index (20°C; 589 nm)	1.4305
DNAase/RNAase/Proteases	Not detectable
Acidity or alkalinity	Max 0.0005 meq/g
Non volatile matter	Max 0.002%
Total Phosphorus	Max 0.00005%
Total Sulphur	Max 0.0001%
Total Silicon	Max 0.000005%
Water (by KF)	Max 0.05%
Calcium (Ca)	Max 0.00001%
Copper (Cu)	Max 0.00005%
Iron (Fe)	Max 0.00001%
Potassium (K)	Max 0.00005%
Magnesium (Mg)	Max 0.00005%
Sodium (Na)	Max 0.0002%
Lead (Pb)	Max 0.00005%
Zinc (Zn)	Max 0.00005%

Safety Information and Hazard Symbols

	
Symbol: GHS02, GHS07, GHS08 Signal Word: Danger UN No.: 2265 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H312-H319-H332-H360D Precaution Statement: P201-P280-P305 + P351 + P338-P308 + P313	

N,N-METHYLENE BISACRYLAMIDE 99% AR FOR ELECTROPHORESIS BIS

Product Code.	01719	Grade	Molecular Biology ; for electrophoresis
Purity	99%	CAS No.	110-26-9
Molecular Formula	C7H10N2O2	Molecular Weight	154.17
H.S.Code	2924.19000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	>5	Melting point/ Freezing point [°C]	300 °C	Vapour density	5.32
Density [g/cm3]	1.2	Solubility in water [% weight]	20 g/l at 20 °C - completely soluble		

Packaging

Specification

Appearance	White powder
Assay (titration)	Min 99%
Melting point	Min 300 deg C
DNAase/RNAase/Proteases	Not detectable
Solubility (20 mg/mL in water; 20°C)	Complete, colourless
Chloride (Cl)	Max 0.005%

Sulphate (SO4)	Max 0.005%
Calcium (Ca)	Max 0.001%

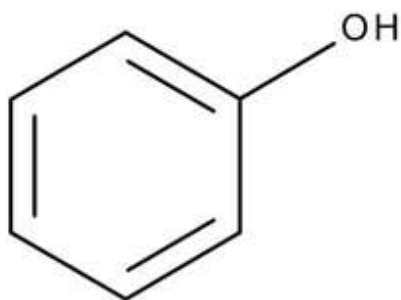
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H332

PHENOL 99.5% MOLECULAR BIOLOGY

No stabilizer Store at 2-8°C Hydroxybenzene; carbolic acid

Product Code.	01970	Grade	
Purity	99%	CAS No.	108-95-2
Molecular Formula	C6H6O	Molecular Weight	94.11
H.S.Code	2907.11100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless to light pink	Odour	Medicinal Sweet odor
pH value	6	Melting point/ Freezing point [°C]	40 - 42°C	Auto-ignition temperature [°C]	715°C
Flash point [°C]	79°C	Boiling point [°C]	182°C	Vapour pressure [20°C]	0.5 hPa at 20°C
Density [g/cm3]	1.07	Solubility in water [% weight]	1 g/15 ml of water	Partition coefficient Log Pow octanol / water at 20°C	1.46
Explosion limits - upper [%]	8.60%	Explosion limits -lower [%]	1.70%		

Packaging

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Specification

Appearance	White crystalline
Assay	Min 99.5%
Solubility	5% aq. solution clear & colourless
Melting point	40 - 41 deg C

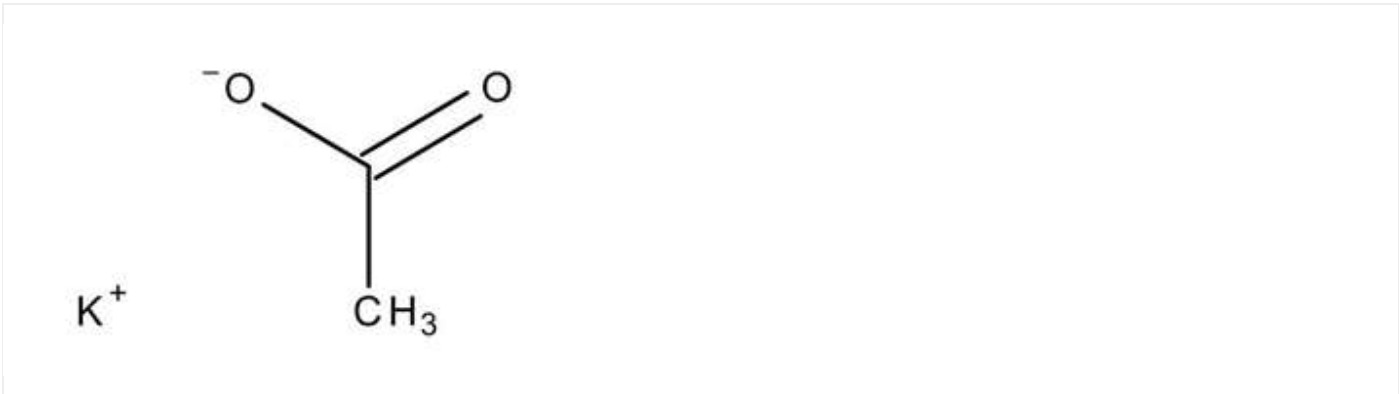
pH (5% solution in water)	4.5 - 6.0
Non volatile matter	Max 0.01%
Chloride (Cl)	Max 0.0005%
Sulphate (SO ₄)	Max 0.005%
Iron (Fe)	Max 0.0001%
Heavy metal (as Pb)	Max 0.0001%
Water (H ₂ O)	Max 0.02%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS06, GHS08 Signal Word: Danger UN No.: 1671 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H301-H311-H314-H331-H341-H373 Precaution Statement: P261-P280-P301 + P310-P305 + P351 + P338-P310

POTASSIUM ACETATE (FOR MOLECULAR BIOLOGY)

Product Code.	02065	Grade	
Purity	99%	CAS No.	127-08-2
Molecular Formula	CH3COOK	Molecular Weight	98.14
H.S.Code	2915.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline powder	Odour	Odorless
pH value	7 - 9 at 98.2 g/l at 25 °C	Melting point/ Freezing point [°C]	303 - 307 °C	Density [g/cm3]	1.57
Solubility in water [% weight]	98.2 g/l at 20 °C - completely soluble				

Packaging

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Specification

Appearance	White crystalline powder
Assay (titration)	Min 99%
DNAase/RNAase/Proteases	Not detectable
Solubility (20°C)	2530 g/L
pH (5% solution in water; 20°C)	7.5 - 8.5

Chloride (Cl)	Max 0.005%
Nitrate (NO3)	Max 0.005%
Sulphate (SO4)	Max 0.001%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max 0.001%
Copper (Cu)	Max 0.0001%
Iron (Fe)	Max 0.0005%
Sodium (Na)	Max 0.5%
Lead (Pb)	Max 0.0001%
Zinc (Zn)	Max 0.005%

Safety Information and Hazard Symbols

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POTASSIUM CHLORIDE 99.5% MOLECULAR BIOLOGY

Product Code.	02085	Grade	
Purity	99.5%	CAS No.	7447-40-7
Molecular Formula	KCl	Molecular Weight	74.56
H.S.Code	3104.20000	Shelf Life	60 Months

KCl

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7	Melting point/ Freezing point [°C]	770 °C	Boiling point [°C]	1500 °C
Density [g/cm3]	1.98	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	White crystalline powder
Assay (titration)	Min 99.5%
DNAase/RNAase/Proteases	Not detectable
Loss on dryig (at 130°C; 2 hrs)	Max 0.5%
pH (5% solution in water)	5.5 - 8.5
Bromide (Br)	Max 0.05%
Iodide (I)	Max 0.002%

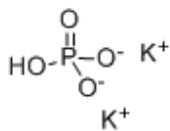
Sulphate (SO4)	Max 0.005%
Arsenic (As)	Max 0.00005%
Barium (Ba)	Max 0.001%
Calcium (Ca)	Max 0.001%
Iron (Fe)	Max 0.0005%
Magnesium (Mg)	Max 0.001%
Sodium (Na)	Max 0.02%

Safety Information and Hazard Symbols

POTASSIUM PHOSPHATE DIBASIC ANHYDROUS 99% MOLECULAR BIOLOGY

Solubility (at 20 deg C) : 1600 g/L in water Thermal dec.: 180 deg C Dipotassium hydrogenphosphate; Dipotassium phosphate; sec.-Potassium phosphate

Product Code.	02162	Grade	Molecular Biology
Purity	99%	CAS No.	7758-11-4
Molecular Formula	K2HPO4	Molecular Weight	174.18
H.S.Code	2835.24000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8.8	Melting point/ Freezing point [°C]	>465°C	Decomposition point [°C]	>465°C
Density [g/cm3]	2.338	Solubility in water [% weight]	1600 g/l (20°C)		

Packaging

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Specification

Appearance	White hygroscopic crystalline powder
Assay (titration)	Min 99%
DNAase/RNAase/Proteases	Not detectable
pH (5% solution in water; 20°C)	8.5 - 9.6
Water (H2O)	Max 0.5%
Chloride (Cl)	Max 0.003%

Fluoride (F)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Arsenic (As)	Max 0.0001%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Zinc (Zn)	Max 0.0025%

Safety Information and Hazard Symbols

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POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS 99.5% MOLECULAR BIOLOGY

Potassium phosphate monobasic; Monopotassium phosphate; prim.-Potassium phosphate

Product Code.	02165	Grade	
Purity	99%	CAS No.	7778-77-0
Molecular Formula	KH2PO4	Molecular Weight	136.09
H.S.Code	2835.24000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	253 °C	Decomposition point [°C]	253 °C	Density [g/cm3]	2.338
Solubility in water [% weight]	Soluble in water				

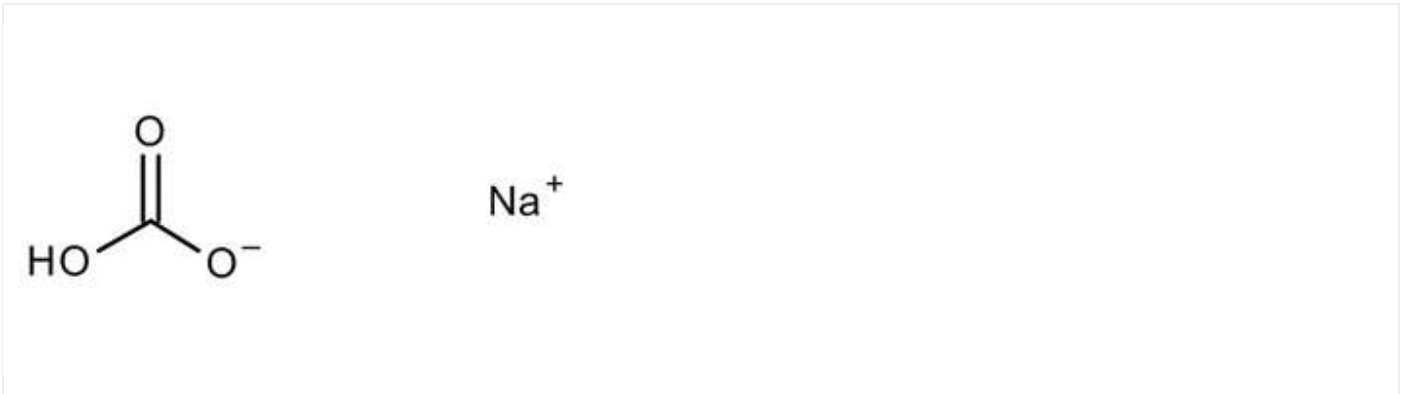
Specification

Appearance	White crystalline powder
Assay (titration)	Min 99%
DNAase/RNAase/Proteases	Not detectable
pH (5% solution in water; 20°C)	4.0 - 4.5
Water (H2O)	Max 0.2%
Chloride (Cl)	Max 0.0005%
Sulphate (SO4)	Max 0.003%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Sodium (Na)	Max 0.02%
Lead (Pb)	Max 0.001%

SODIUM BICARBONATE (FOR MOLECULAR BIOLOGY)

sodium hydrogen carbonate

Product Code.	02363	Grade	
Purity	99.7%	CAS No.	144-55-8
Molecular Formula	NaHCO3	Molecular Weight	84.01
H.S.Code	2836.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 8.5	Melting point/ Freezing point [°C]	300 °C	Decomposition point [°C]	50 °C
Density [g/cm3]	2.16	Solubility in water [% weight]	9 g/100mL (20°C)		

Packaging

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Specification

Appearance	A soft white crystalline powder
Assay	Min 99.7%
Solubility (5% in water)	Clear and colorless
Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.003%
Phosphate (PO4)	Max 0.005%
Iron (Fe)	Max 0.0005%

Heavy metal (as Pb)	Max 0.0005%
Copper (Cu)	Max 0.0005%
Nitrogen compounds (as N)	Max 0.001%
Potassium (K)	Max 0.005%

Safety Information and Hazard Symbols

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SODIUM CHLORIDE 99.5% MOLECULAR BIOLOGY

Common salt; Halite; Rock salt Sodium chloric; Table salt

Product Code.	02383	Grade	
Purity	99.5%	CAS No.	7647-14-5
Molecular Formula	NaCl	Molecular Weight	58.44
H.S.Code	2501.00900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	6.7 - 7.3	Melting point/ Freezing point [°C]	801 °C	Boiling point [°C]	1413 °C
Vapour pressure mm/Hg	1.33 mm Hg at 865 °C	Density [g/cm3]	2.16	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99.5%
DNAase/RNAase/Proteases	Not detectable
pH (5% solution in water; 20°C)	5.0 - 8.0
Bromide (Br)	Max 0.005%
Iodide (I)	Max 0.001%

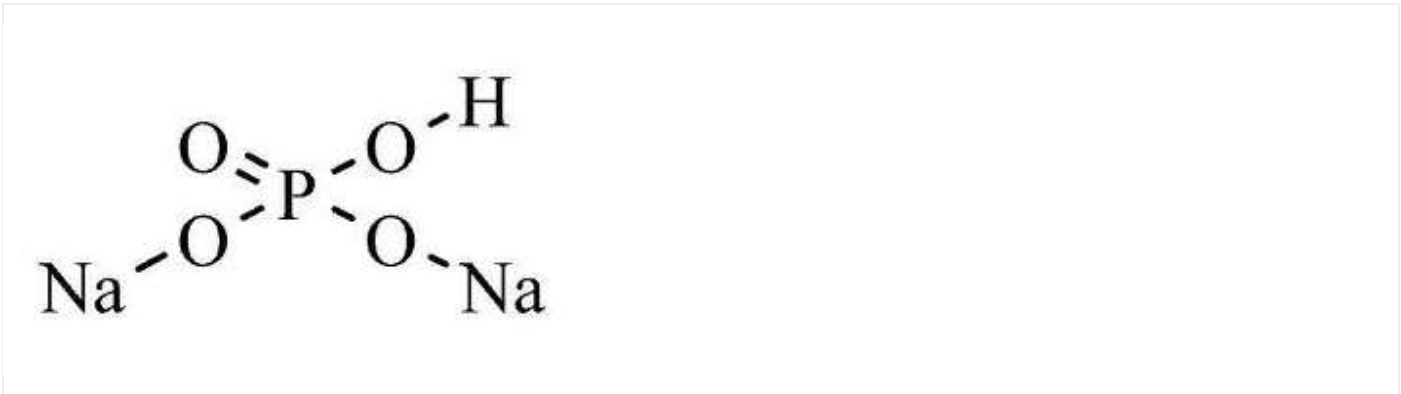
Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.001%
Barium (Ba)	Max 0.001%
Calcium (Ca)	Max 0.002%
Iron (Fe)	Max 0.0001%
Potassium (K)	Max 0.005%
Magnesium (Mg)	Max 0.001%
Lead (Pb)	Max 0.0005%

Safety Information and Hazard Symbols

SODIUM PHOSPHATE DIBASIC ANHYDROUS 99% MOLECULAR BIOLOGY

Di-Sodium Hydrogen Phosphate Anhydrous

Product Code.	02482	Grade	
Purity	99%	CAS No.	7558-79-4
Molecular Formula	Na2HPO4	Molecular Weight	141.96
H.S.Code	2835.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8.9 - 9.2 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	240°C	Decomposition point [°C]	240°C
Vapour density	4.9	Density [g/cm3]	1.52	Solubility in water [% weight]	Soluble in water

Packaging

Specification

Appearance	White crystalline powder
Assay (titration)	Min 99%
DNAase/RNAase/Proteases	Not detectable
pH (5% solution in water; 20°C)	8.7 - 9.3
Total nitrogen (N)	Max 0.001%
Water (H2O)	Max 0.2%

Chloride (Cl)	Max 0.001%
Fluoride (F)	Max 0.0001%
Sulphate (SO4)	Max 0.005%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.01%
Lead (Pb)	Max 0.001%

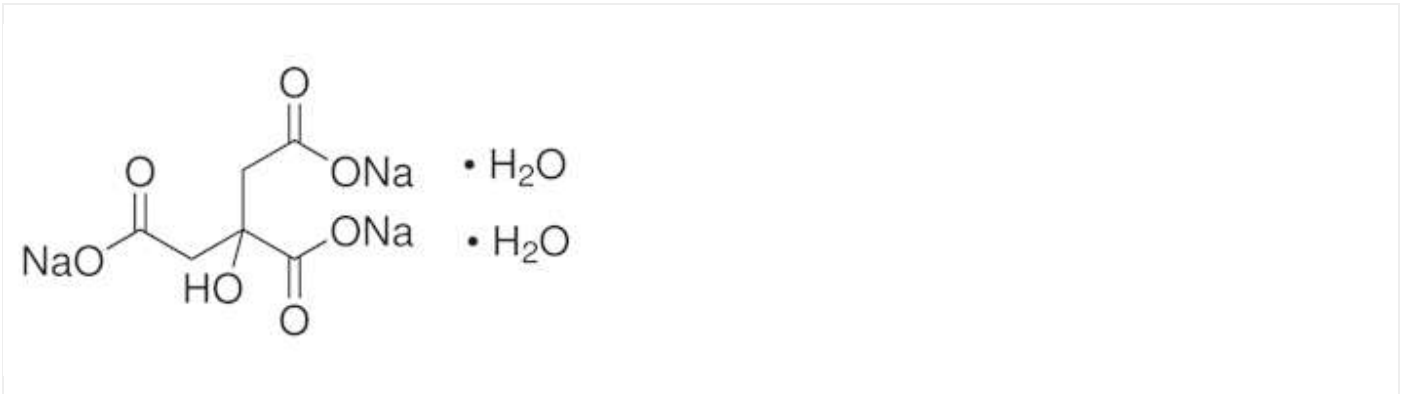
Safety Information and Hazard Symbols

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TRI-SODIUM CITRATE DIHYDRATE 99% MOLECULAR BIOLOGY

Citric acid trisodium salt dihydrate

Product Code.	02394	Grade	
Purity	99%	CAS No.	6132-04-3
Molecular Formula	Na3C6H5O7.2H2O	Molecular Weight	294.10
H.S.Code	2918.15200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	7.5 - 9 at 29.4 g/l at 25 °C	Melting point/ Freezing point [°C]	> 300 °C	Density [g/cm3]	1.665
Solubility in water [% weight]	29.4 g/l at 20 °C - completely soluble				

Packaging

Specification

Appearance	White crystalline powder
Assay (by HClO4 titration)	Min 99%
Heavy metal (as Pb)	Max 0.001%
UV absorbance (1 cm cell vs water; 0.1 mol/L)	
at 260 nm	Max 0.01
at 280 nm	Max 0.01

DNases (exo and endonucleases)	Not detectable
RNases	Not detectable
Phosphatase	Not detectable
Proteases	Not detectable

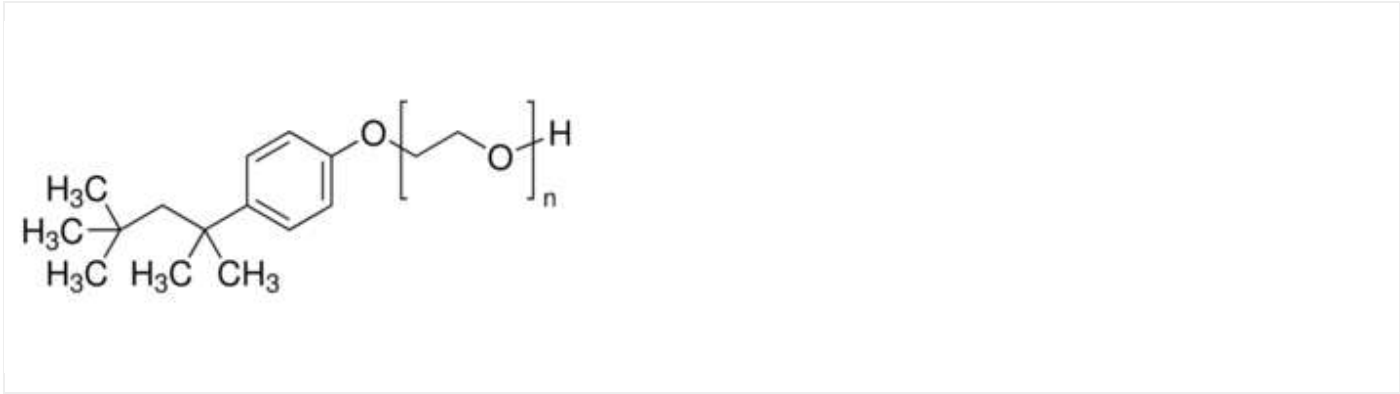
Safety Information and Hazard Symbols

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TRITON® X -100 MOLECULAR BIOLOGY

4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol; t-Octylphenoxy polyethoxyethanol;
Polyethylene glycol tert-octylphenyl ether

Product Code.	02785	Grade	
Purity		CAS No.	9002-93-1
Molecular Formula		Molecular Weight	0.00
H.S.Code	2923.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Pale yellow	Odour	Odorless
pH value	9.7	Melting point/ Freezing point [°C]	6 °C	Flash point [°C]	251 °C
Boiling point [°C]	> 200 °C	Vapour pressure [20°C]	< 1.33 hPa at 20 °C	Density [g/cm3]	1.07
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	Pale yellow colored viscous liquid
Classification	Non-ionic detergent
CMC (at 25°C)	0.3 mM
DNAase/RNAase/Proteases	Not detectable
Heavy metal (as Pb)	Max 0.0005%

Water (H ₂ O)	Max 1.0%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.005%

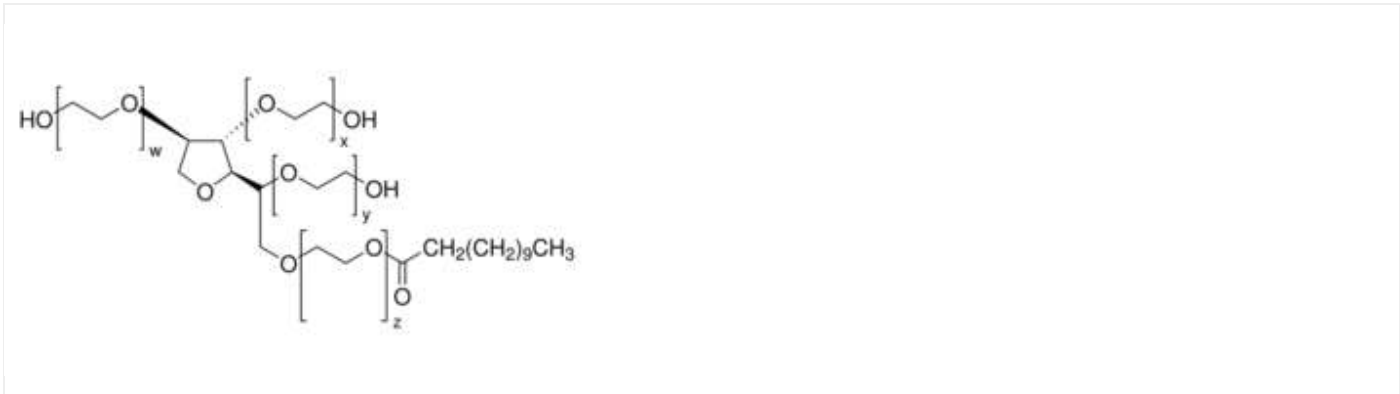
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3082 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H319-H411 Precaution Statement: P273-P305 + P351 + P338

TWEEN® -20 MOLECULAR BIOLOGY

Polyoxyethylenesorbitan monolaurate

Product Code.	02801	Grade	
Purity		CAS No.	9005-64-5
Molecular Formula	C58H114O26	Molecular Weight	1227.72
H.S.Code	3402.90990	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Golden yellow	pH value	7
Flash point [°C]	110 °C	Boiling point [°C]	100 °C	Vapour pressure [20°C]	< 1.33 hPa at 20 °C
Density [g/cm3]	1.095	Solubility in water [% weight]	Soluble in water		

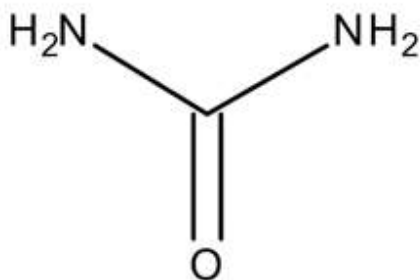
Specification

Appearance	Pale yellow color viscous liquid
DNAase/RNAase/Proteases	Not detectable
Density (d20°C/4°C)	1.1 - 1.11
Hydroxyl number	Approx. 100
Saponification value	40 - 50

UREA 99.5% MOLECULAR BIOLOGY

Carbamide, Carbonyldiamide

Product Code.	02810	Grade	
Purity	99.5%	CAS No.	57-13-6
Molecular Formula	NH ₂ CONH ₂	Molecular Weight	60.06
H.S.Code	3102.10000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	7.5 - 9.5 at 480 g/l at 25 °C
Melting point/ Freezing point [°C]	132 - 135 °C	Vapour pressure [20°C]	0.009 hPa at 20 °C	Vapour density	2.07
Density [g/cm ³]	1.335	Solubility in water [% weight]	480 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-2.59

Packaging

Specification

Appearance	White crystalline powder
Assay (ex N)	Min 99.5%
Solubility (in water; 20°C)	590 g/L
DNAase/RNAase/Proteases	Not detectable
Melting point	132-135 deg C

Heavy metal (as Pb)	Max 0.001%
pH (8 M in water; 25°C)	7.5 - 10.5
Chloride (Cl)	Max 0.0005%
Sulphate (S)	Max 0.001%
Iron (Fe)	Max 0.0005%

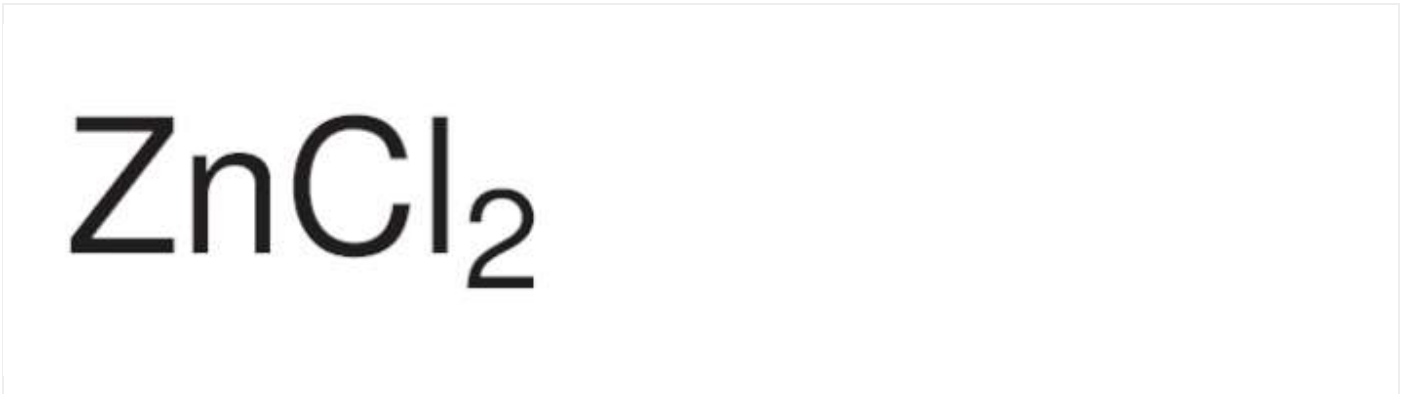
Safety Information and Hazard Symbols

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ZINC CHLORIDE 98% MOLECULAR BIOLOGY

Dichlorozinc

Product Code.	02876	Grade	
Purity	98%	CAS No.	7646-85-7
Molecular Formula	ZnCl2	Molecular Weight	136.29
H.S.Code	2827.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4 Aqueous solution	Melting point/ Freezing point [°C]	293 °C	Boiling point [°C]	732 °C
Density [g/cm3]	2.91	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	White crystalline hygroscopic powder
Assay (ex total Zn)	Min 98%
DNAase/RNAase/Proteases	Not detected
Solubility (0.14 g/mL in water; 20°C)	Complete ,colorless
pH (1 M solution in water; 25°C)	4 - 5.5
UV absorbance 1 M water at 260 nm	Max 0.01

UV absorbance 1 M water at 280 nm

Max 0.01

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS09

Signal Word: Danger

UN No.: 2331

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H302-H314-H410

Precaution Statement: P273-P280-P305 + P351 + P338-P310-P501

По вопросам продаж и поддержки обращайтесь:

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Белгород (4722)40-23-64
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