

Буферные вещества

Технические характеристики

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Улан-Удэ (3012)59-97-51
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Чита (3022)38-34-83
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Ярославль (4852)69-52-93

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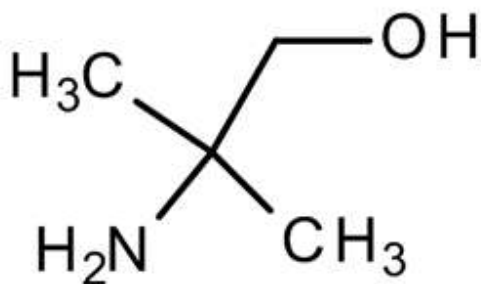
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эл.почта: pva@nt-rt.ru || сайт: <https://pallav.nt-rt.ru/>

2-AMINO-2-METHYL-1- PROPANOL 95% EXTRAPURE (AMP)

β-Aminoisobutyl alcohol, AMP ; Liquid, d. 0.934
Suitable for Clinical Work Assay

Product Code.	00159	Grade	Extrapure
Purity	Min. 95%	CAS No.	124-68-5
Molecular Formula	C4H11NO	Molecular Weight	89.14
H.S.Code	2922.50900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear viscous	pH value	11 - 12
Melting point/ Freezing point [°C]	24 - 28 °C	Auto-ignition temperature [°C]	438 °C	Flash point [°C]	68 °C
Boiling point [°C]	165 °C	Vapour pressure [20°C]	< 0.1 hPa at 20 °C	Vapour density	3
Density [g/cm3]	0.934	Solubility in water [% weight]	8.9 g/l at 20 °C	Partition coefficient Log Pow octanol / water at 20°C	-0.63

Packaging



Specification

Appearance	A clear viscous liquid
Colour	Max 20 APHA

Purity (by GC)

Min 95%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

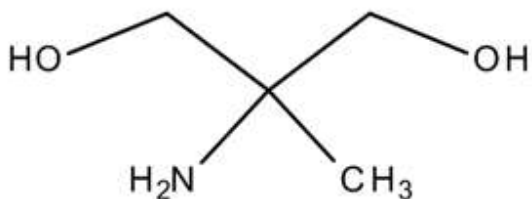
Hazardous Statement: H315-H319-H412

Precaution Statement: P273-P305 + P351 + P338

2-AMINO-2-METHYL-1,3- PROPANEDIOL 99% AR

AMPD, Ammediol

Product Code.	00158	Grade	
Purity	Min. 99%	CAS No.	115-69-5
Molecular Formula	C4H11NO2	Molecular Weight	105.14
H.S.Code	2922.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	pH value	10.5 - 11.5
Melting point/ Freezing point [°C]	100 - 110 °C	Boiling point [°C]	151 °C	Vapour density	3.63
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	White powder
Assay	Min 99%
Melting point	107 - 110 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

UN No.: 3259

IMCO Class No.: 8

Packing Group: III

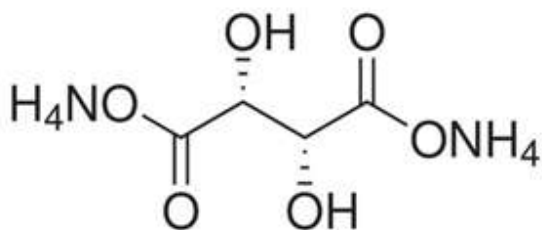
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

AMMONIUM TARTRATE 99% AR

L-(+)-Tartaric acid diammonium salt, Diammonium tartrate, Ammonium tartrate dibasic

Product Code.	00248	Grade	
Purity	Min 99%	CAS No.	3164-29-2
Molecular Formula	(NH ₄) ₂ C ₄ H ₄ O ₆	Molecular Weight	184.15
H.S.Code	2918.13900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	5 - 7
Density [g/cm ³]	1.6	Solubility in water	Soluble in water		

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99%
Sulphate (SO ₄)	Max 0.005%
Insoluble matter	Max 0.005%
pH (5% aq. solution)	pH 6.0-7.0

Sulphated ash	Max 0.01%
Chloride (Cl)	Max 0.001%
Arsenic (As)	0.00005%
Copper (Cu)	Max 0.0001%
Iron (Fe)	Max 0.0002%
Lead (Pb)	Max 0.0001%

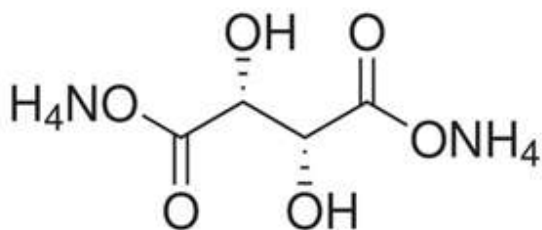
Safety Information and Hazard Symbols

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AMMONIUM TARTRATE 99% EXTRAPURE

L-(+)-Tartaric acid diammonium salt, Diammonium tartrate, Ammonium tartarate dibasic

Product Code.	00247	Grade	Extrapure
Purity	99%	CAS No.	3164-29-2
Molecular Formula	(NH ₄) ₂ C ₄ H ₄ O ₆	Molecular Weight	184.15
H.S.Code	2918.13900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	5 - 7
Density [g/cm ³]	1.6	Solubility in water	Soluble in water		

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99.0%
Chloride (Cl)	Max 0.005%
Sulphate (SO ₄)	Max 0.005%
Heavy metal (as Pb)	Max 0.001%

Calcium (Ca)	Max 0.02%
Iron (Fe)	Max 0.001%
Residue on ignition (as SO4)	Max 0.05%

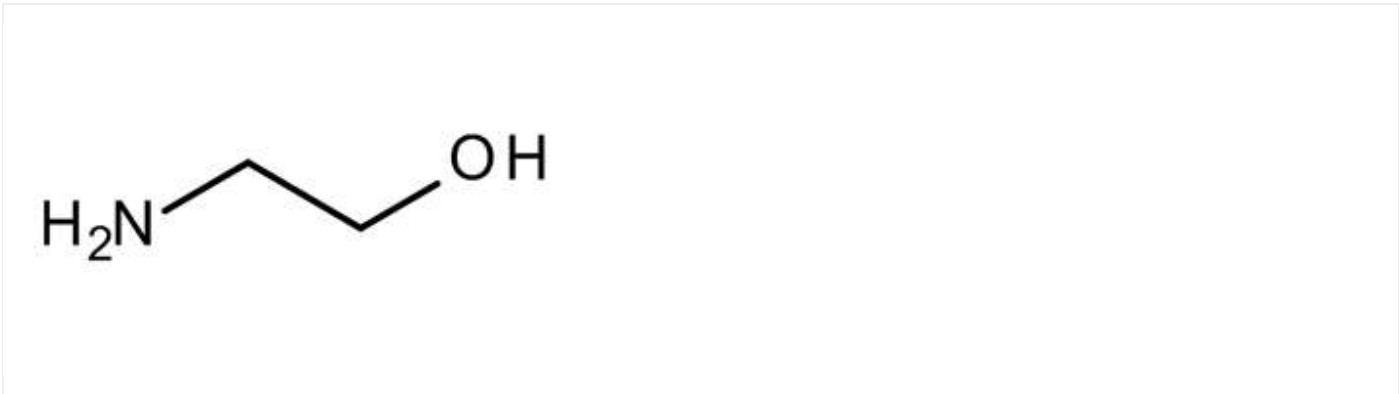
Safety Information and Hazard Symbols

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ETHANOLAMINE (MONO) 99% AR

2-Aminoethanol, Monoethanolamine

Product Code.	01130	Grade	AR
Purity	99%	CAS No.	141-43-5
Molecular Formula	C2H7NO	Molecular Weight	61.08
H.S.Code	2922.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia odor
pH value	12.1	Melting point/ Freezing point [°C]	10 - 11 °C	Auto-ignition temperature [°C]	780 °C
Flash point [°C]	86 °C	Boiling point [°C]	170 °C	Evaporation rate	<1
Vapour pressure [20°C]	0.3 hPa at 20 °C	Vapour density	2.1	Density [g/cm3]	1.012
Solubility in water [% weight]	Miscible in water	Explosion limits - upper [%]	17%	Explosion limits -lower [%]	2.50%

Packaging

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Specification

Appearance	A clear viscous hygroscopic liquid
Purity (by GC)	Min 99.0%
Weight/ mL at 20°C	1.016 - 1.020 g/ml
APHA colour	Max 15 Hazen

Non volatile matter	Max 0.2%
Ethanol (G.C.) (v/v)	Max 0.1%
Diethanolamine (GC)	Max 0.3%
Triethanolamine (GC)	Max 0.1%
Sulphated ash	Max 0.02%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Heavy metal (as Pb)	Max 0.0005%
Identity (IR)	Passes test

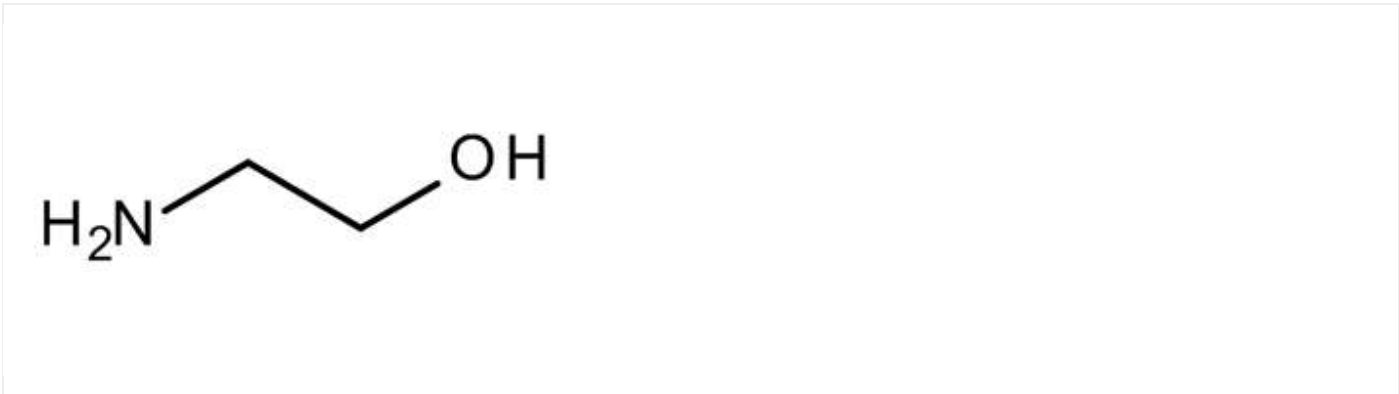
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 2491 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H302-H312-H314-H332 Precaution Statement: P280-P305 + P351 + P338-P310

ETHANOLAMINE (MONO) 99% FOR SYNTHESIS

2-Aminoethanol, Monoethanolamine

Product Code.	01129	Grade	
Purity	99%	CAS No.	141-43-5
Molecular Formula	C2H7NO	Molecular Weight	61.08
H.S.Code	2922.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia odor
pH value	12.1	Melting point/ Freezing point [°C]	10 - 11 °C	Auto-ignition temperature [°C]	780 °C
Flash point [°C]	86 °C	Boiling point [°C]	170 °C	Evaporation rate	<1
Vapour pressure [20°C]	0.3 hPa at 20 °C	Vapour density	2.1	Density [g/cm3]	1.012
Solubility in water [% weight]	Miscible in water	Explosion limits - upper [%]	17%	Explosion limits -lower [%]	2.50%

Packaging

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Specification

Appearance	A clear viscous hygroscopic liquid
Assay (GC area %)	Min 99.0%
Density (d20°C/4°C)	1.015 - 1.018
Refractive index (20°C; 589 nm)	1.4535 - 1.4545

Sulphated ash	Max 0.05%
Water (by KF)	Max 0.5%

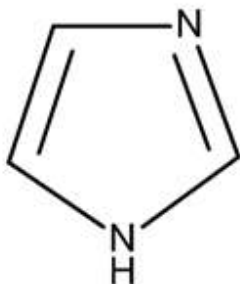
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger UN No.: 2491 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H302-H312-H314-H332 Precaution Statement: P280-P305 + P351 + P338-P310

IMIDAZOLE 99.5% AR

Buffer substance for pH 6.2 - 7.8 1,3-Diaza-2,4-cyclopentadiene; Glyoxaline

Product Code.	01429	Grade	AR
Purity	99.5%	CAS No.	288-32-4
Molecular Formula	C3H4N2	Molecular Weight	68.08
H.S.Code	2933.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to pale yellow	Odour	Amine like
pH value	9.5 - 11	Melting point/ Freezing point [°C]	88 - 91 °C	Flash point [°C]	> 135 °C
Boiling point [°C]	256 °C	Vapour pressure [20°C]	0.003 hPa at 20 °C	Density [g/cm3]	1.03
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.02		

Packaging

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Specification

Appearance	White to off white crystals/ crystalline powder/flakes
Assay (by HClO4 titration)	Min 99.5%
pH (5% solution in water)	9.5 - 10.5
Melting point	88 - 90°C
Iron (Fe)	Max 0.0005%

Sulphated ash	Max 0.1%
Water (H2O)	Max 0.2%

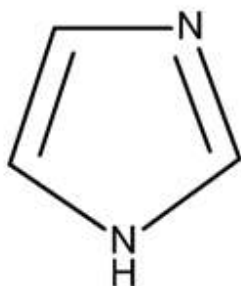
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07, GHS08 Signal Word: Danger UN No.: 3263 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H302-H314-H360D Precaution Statement: P201-P280-P305 + P351 + P338-P310

IMIDAZOLE 99% EXTRAPURE

Glyoxaline

Product Code.	01428	Grade	Extrapure
Purity	99%	CAS No.	288-32-4
Molecular Formula	C3H4N2	Molecular Weight	68.08
H.S.Code	2933.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to pale yellow	Odour	Amine like
pH value	9.5 - 11	Melting point/ Freezing point [°C]	88 - 91 °C	Flash point [°C]	> 135 °C
Boiling point [°C]	256 °C	Vapour pressure [20°C]	0.003 hPa at 20 °C	Density [g/cm3]	1.03
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.02		

Packaging

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Specification

Appearance	White to off white crystals/ crystalline powder/flakes
Assay (ex total N)	Min 99.0%
pH (5% solution)	9.5 - 11
Melting point	88 - 90°C
Iron (Fe)	Max 0.001%

Water (H ₂ O)	Max 0.5%
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07, GHS08 Signal Word: Danger UN No.: 3263 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H302-H314-H360D Precaution Statement: P201-P280-P305 + P351 + P338-P310

L(+)-TARTARIC ACID DIAMMONIUM SALT 99%

Product Code.	0248C	Grade	
Purity	99%	CAS No.	3164-29-2
Molecular Formula	(NH4)2C4H4O6	Molecular Weight	184.15
H.S.Code	2918.13900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	5 - 7
Density [g/cm3]	1.6	Solubility in water	Soluble in water		

Packaging

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Specification

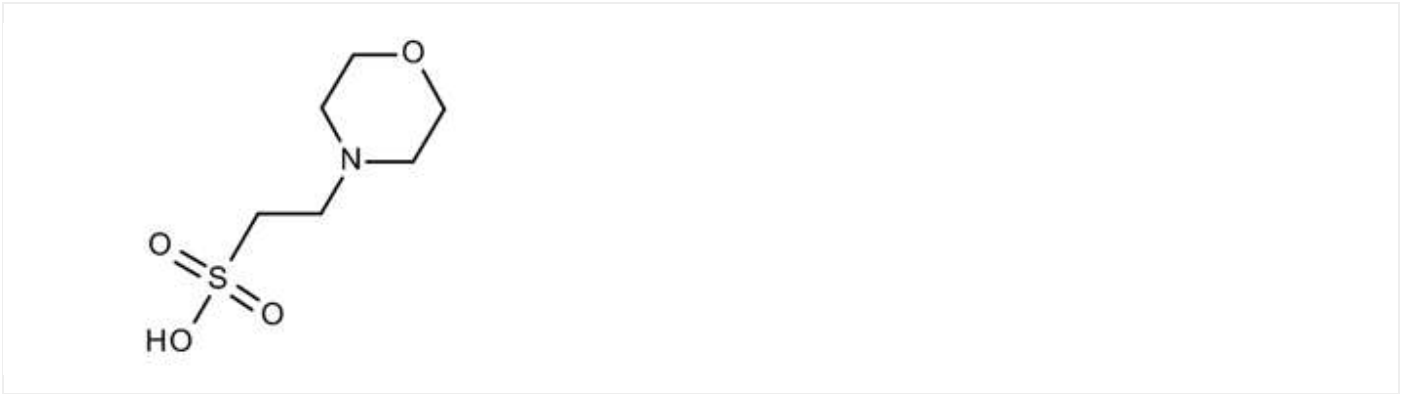
Appearance (Color)	Semitransparent white
Appearance (Form)	Crystals
Infrared spectrum	Conforms
Titration with HClO4	>=98.5 %
Heavy metals (as Pb)	==<10 ppm
Sulfated ash	==<0.05 %
Specific optical rotation	+31.4° to +33.4° (20°C, 589 nm) (c=1.84, H O)
Chloride (Cl)	==<50 ppm
Sulfate (SO4)	==<50 ppm
Iron (Fe)	==<10 ppm
Insoluble matter	==<0.005 % (in water)
pH	6.0 to 7.0 (5 % solution)

Safety Information and Hazard Symbols

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MORPHOLINOETHANE SULPHONIC ACID MONOHYDRATE 99% EXTRAPURE
(MES)
MES Monohydrate

Product Code.	01770	Grade	For Molecular Biology
Purity	99%	CAS No.	145224-94-8
Molecular Formula	C6H13NO4S.H2O	Molecular Weight	213.25
H.S.Code	2934.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.6	Melting point/ Freezing point [°C]	>300 °C	Solubility in water [% weight]	Soluble in water

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99%
UV absorbance (at 250 nm; 5%; 1 cm; water)	Max 0.05
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.0005%
Sodium (Na)	Max 0.01%

Water (H₂O)

8.3 - 9.3%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

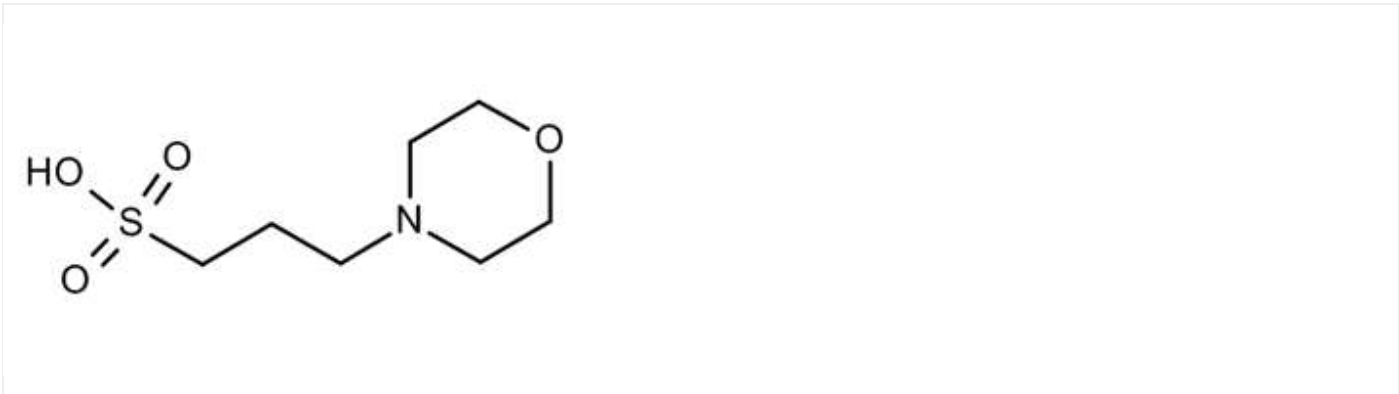
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

MORPHOLINOPROPANE SULPHONIC ACID (MOPS) 99% EXTRAPURE

MOPS

Product Code.	01771	Grade	
Purity	99%	CAS No.	1132-61-2
Molecular Formula	C7H15NO4S	Molecular Weight	209.26
H.S.Code	2934.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 - 4 at 209 g/l at 25 °C	Melting point/ Freezing point [°C]	277 °C	Flash point [°C]	110 °C
Solubility in water [% weight]	209 g/l at 20 °C - completely soluble				

Packaging

Specification

Appearance	White crystalline powder
Assay	Min 99%
UV absorbance	Max 0.05
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.005%
Heavy metal (as Pb)	Max 0.0005%

Sodium (Na)	Max 0.01%
Loss on drying (at 105°C)	Max 1%

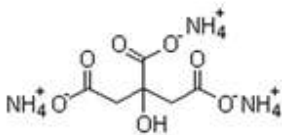
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

TRI-AMMONIUM CITRATE 97% EXTRAPURE

Citric acid triammonium salt

Product Code.	00202	Grade	Extrapure
Purity	97%	CAS No.	3458-72-8
Molecular Formula	(NH4)3C6H5O7	Molecular Weight	243.22
H.S.Code	2918.15900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	185 °C
Boiling point [°C]	100 °C	Density [g/cm3]	1	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White deliquescent powder
Assay (ex NH3)	97.0 - 103.0%
pH (5% solution)	6.0 - 7.5
Chloride (Cl)	Max 0.01%

Lead (Pb)

Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

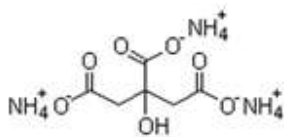
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

TRI-AMMONIUM CITRATE 98.5%AR

Citric acid triammonium salt

Product Code.	00203	Grade	AR
Purity	98.5%	CAS No.	3458-72-8
Molecular Formula	(NH4)3C6H5O7	Molecular Weight	243.22
H.S.Code	2918.15900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	185 °C
Boiling point [°C]	100 °C	Density [g/cm3]	1	Solubility in water [% weight]	Soluble in water

Packaging



Specification

Appearance	White deliquescent powder
Assay	98.5 - 101.0%
pH (5% solution)	6.0 - 7.5
Insoluble matter in water	Max 0.005%
Chloride (Cl)	Max 0.001%

Oxalate (as C ₂ H ₂ O ₄)	Max 0.01%
Sulphate (SO ₄)	Max 0.005%
Copper (Cu)	Max 0.0001%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0005%
Potassium (K)	Max 0.003%
Sodium (Na)	Max 0.004%
Readily carbonisable substance	Passes test
Reducing substance	Passes test

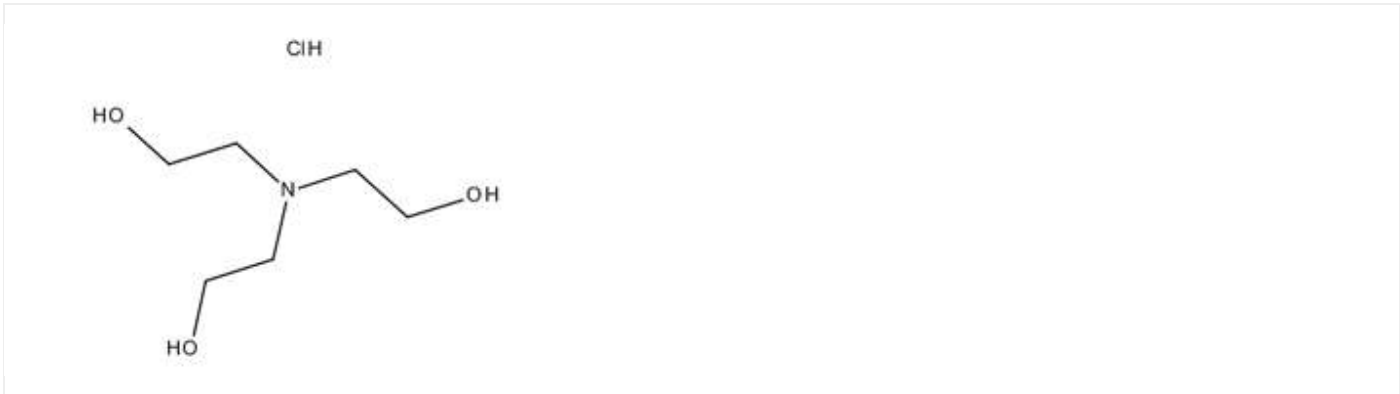
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

TRIETHANOLAMINE HYDROCHLORIDE 99% AR

Buffer component. 2,2',2''-Nitrilotriethanol hydrochloride,; Tris(2-hydroxyethyl)amine hydrochloride

Product Code.	02756	Grade	
Purity	99%	CAS No.	637-39-8
Molecular Formula	C6H16ClNO3	Molecular Weight	185.65
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Amine like
pH value	4 - 5.5 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	177 - 179 °C	Solubility in water [% weight]	Soluble in water

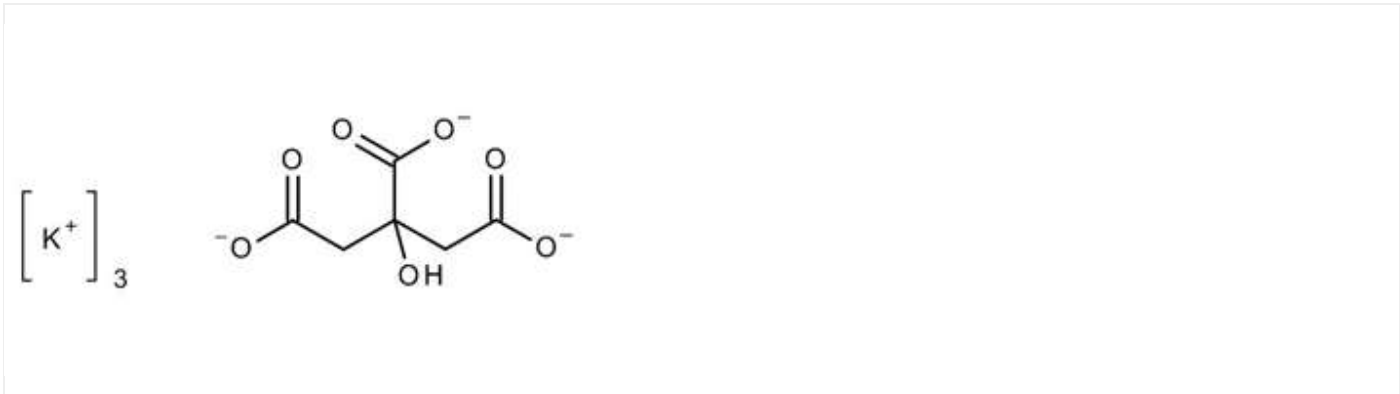
Specification

Appearance	White crystalline powder
Assay	Min 99%
pH (5% solution)	4.0 - 5.5
Melting point	176 - 180 deg C
Lead (Pb)	Max 0.0005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Zinc (Zn)	Max 0.0005%
Sulphated ash	Max 0.01%

TRI-POTASSIUM CITRATE MONOHYDRATE 99% AR

Potassium citrate tribasic monohydrate; Citric acid tripotassium salt

Product Code.	02093	Grade	
Purity	99%	CAS No.	6100-05-6
Molecular Formula	K3C6H5O7.H2O	Molecular Weight	324.41
H.S.Code	2918.15100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 9.5	Melting point/ Freezing point [°C]	275 °C	Density [g/cm3]	1.98
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-0.28		

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 99%
Insoluble matter	Max 0.003%
Reaction	pH 7.5 - 9.0
Chloride (Cl)	Max 0.001%
Oxalate (as C2H2O4)	Max 0.01%

Sulphate (SO4)	Max 0.005%
Ammonium (NH4)	Max 0.001%
Arsenic (As)	Max 0.0002%
Copper (Cu)	Max 0.005%
Iron (Fe)	Max 0.005%
Lead (Pb)	Max 0.001%
Sodium (Na)	Max 0.15%
Readily carbonisable substance	Passes test

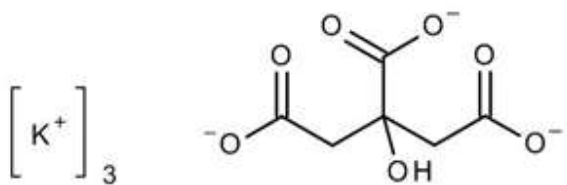
Safety Information and Hazard Symbols

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TRI-POTASSIUM CITRATE MONOHYDRATE 99% EXTRAPURE

Confirms to IP, BP, USP Citric acid tripotassium salt, Kalii citras, Potassium citrate tribasic

Product Code.	02092	Grade	
Purity	98%	CAS No.	6100-05-6
Molecular Formula	C6H5K3O7.H2O	Molecular Weight	324.41
H.S.Code	2918.15100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	8 - 9.5	Melting point/ Freezing point [°C]	275 °C	Density [g/cm3]	1.98
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-0.28		

Packaging

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Specification

Appearance	White crystalline powder
Assay (by HClO4 titration)	98 - 100.5%
pH (5% solution in water)	7.5 - 9.0
Appearance of solution	Passes test
Insoluble matter in water	Max 0.025%
Acidity or alkalinity	Passes test

Chloride (Cl)	Max 0.005%
Oxalate (as C2H2O4)	Max 0.03%
Sulphate (SO4)	Max 0.01%
Tartarate (C4H6)	Passes test
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0002%
Sodium (Na)	Max 0.3%
Readily carbonisable substance	Passes test
Water (H2O)	4.0 - 7.0%
Loss on dryig (at 180°C)	3.0 - 6.0

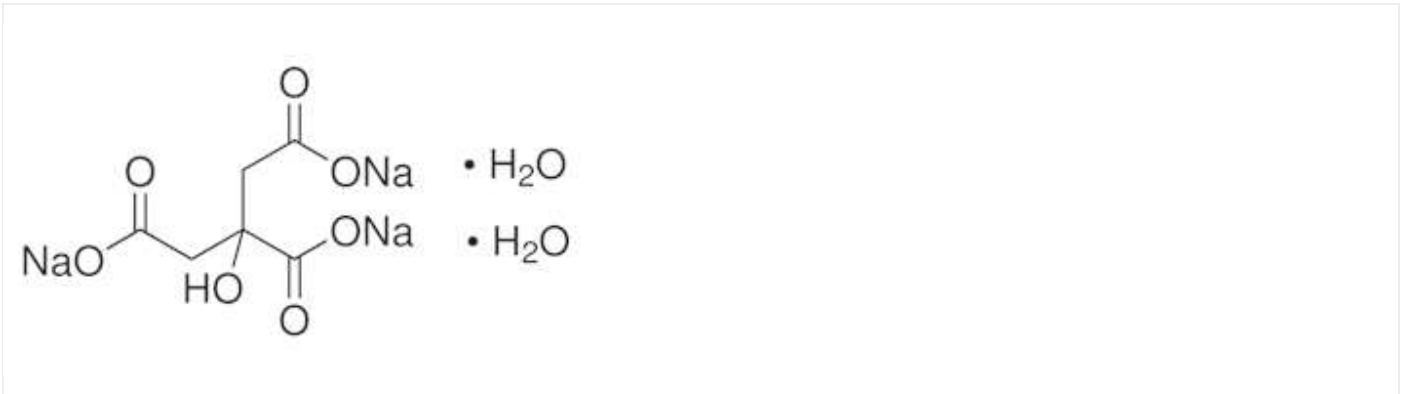
Safety Information and Hazard Symbols

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TRI-SODIUM CITRATE DIHYDRATE 99% AR

Confirming to BP, USP Citric acid trisodium salt dihydrate

Product Code.	02393	Grade	
Purity	99%	CAS No.	6132-04-3
Molecular Formula	C6H5Na3O7.2H2O	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)	99 - 100.5%
Identity	Passes test
Appearance of solution (100 g/L)	Clear and colorless
Insoluble matter	Max 0.005%
Acidity or alkalinity	Passes test

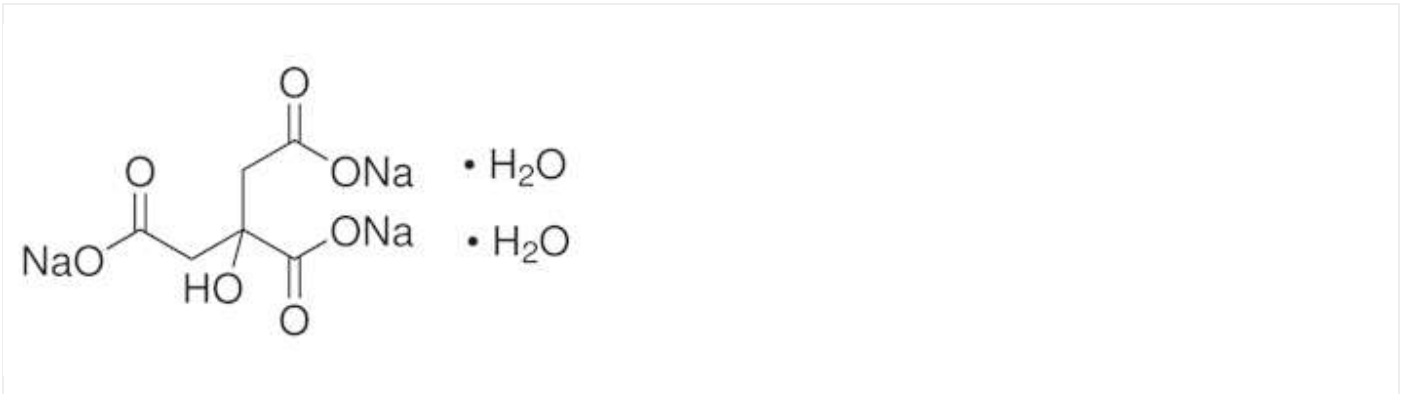
pH (50 mg/mL in water; 25°C)	7.5 - 9.0
Chloride (Cl)	Max 0.003%
Sulphate (SO4)	Max 0.005%
Heavy metals (by ICP-OES)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Oxalate (as C2H2O4)	Max 0.01%
Tartarate (C4H6)	Passes test
Readily carbonisable substance	Passes test
Ammonium (NH4)	Max 0.003%
Calcium (Ca)	Max 0.005%
Water (by KF)	11.0 - 13.0%
Loss on drying (180°C; 18 hrs)	10.0 - 13.0%

Safety Information and Hazard Symbols

TRI-SODIUM CITRATE DIHYDRATE 99% EXTRAPURE

Citric acid trisodium salt dihydrate ; tri-sodium citrate-2-hydrate

Product Code.	02392	Grade	Extrapure
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 (ex Na)	Min 99.0%
Acidity or alkalinity	Passes test
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.02%
Lead (Pb)	Max 0.001%

По вопросам продаж и поддержки обращайтесь:

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