

Неорганические фосфаты

Технические характеристики

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AMMONIUM DIHYDROGEN PHOSPHATE 98% EXTRAPURE

Ammonium Dihydrogen Orthophosphate

Product Code.	00232	Grade	Extra pure
Purity	Min. 98%	CAS No.	7722-76-1
Molecular Formula	NH4H2PO4	Molecular Weight	115.03
H.S.Code	31054000.00000	Shelf Life	60 Months

Physical Properties

Physical State at 20 C	Solid	Color	White Crystalline	Odour	Odourless
pH value	3.8 - 4.4 at 50 g/l at 25 deg C	M.P.	190 deg C	Density [g/cm3]	1.8
Solubility in water [%weight]	Soluble in water				

Packaging



Specification

Appearance	White Crystalline Powder
Assay	98-101%
Chloride (Cl)	Max 0.005%
Nitrate (NO3)	Max 0.002%
Arsenic (Ar)	Max 0.0001%
Heavy Metal (Pb)	Max 0.005%
Iron (Fe)	Max 0.001%

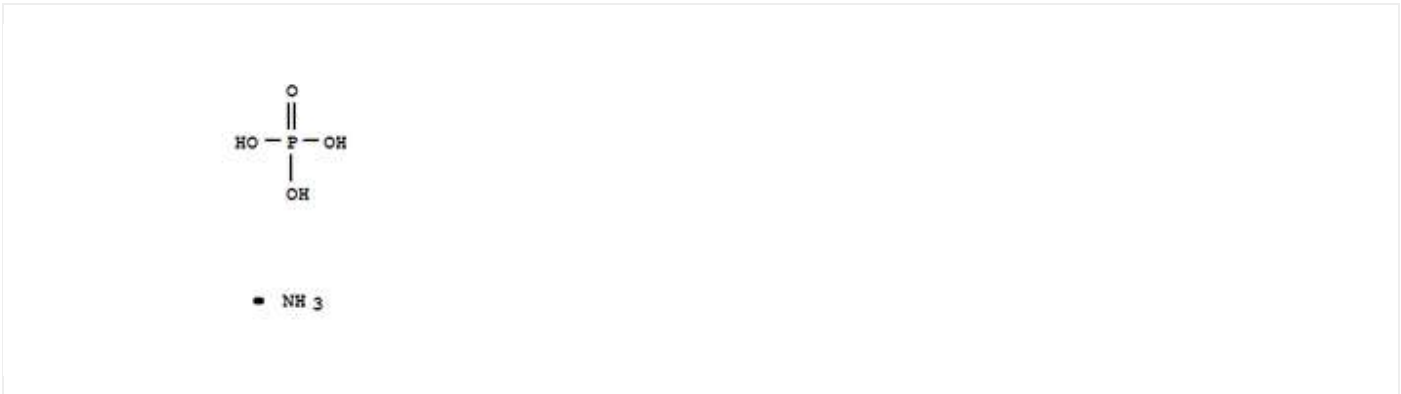
Safety Information and Hazard Symbols

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AMMONIUM DIHYDROGEN PHOSPHATE 99% AR

(Ammonium Dihydrogen Orthophosphate ,Ammonium Acid Phosphate

Product Code.	00233	Grade	
Purity	Min 99%	CAS No.	7722-76-1
Molecular Formula	NH4H2PO4	Molecular Weight	115.03
H.S.Code	3105.40000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	odourless
pH value	3.8 - 4.4 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	190 °C	Density [g/cm3]	1.8
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99%
PH (5% solution in CO2 free water)	3.8 - 4.4
Insoluble matter	Max 0.005%

Chloride (Cl)	Max 0.0005%
Nitrate (NO3)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%
Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.005%
Calcium (Ca)	Max 0.001%
Magnesium (Mg)	Max 0.0005%

Safety Information and Hazard Symbols

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AMMONIUM DIHYDROGEN PHOSPHATE 99% MOLECULAR BIOLOGY

Ammonium Dihydrogen Orthophosphate

Product Code.	00234	Grade	
Purity	Min. 99%	CAS No.	7722-76-1
Molecular Formula	NH4H2PO4	Molecular Weight	115.03
H.S.Code	31054000.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Physical state at 20 °C	Colour	White crystalline	Odour	odourless
pH value	3.8 - 4.4 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	190 °C	Density [g/cm3]	1.8
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99%
PH (5% solution in CO2 free water)	3.8 - 4.4
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.0005%
Nitrate (NO3)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%

Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.005%
Calcium (Ca)	Max 0.001%
Magnesium (Mg)	Max 0.0005%

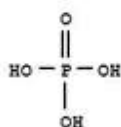
Safety Information and Hazard Symbols

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AMMONIUM PHOSPHATE DIBASIC (ANHYDROUS)

Confirms to USP Ammonium phosphate dibasic , Ammonium hydrogenphosphate , Di-Ammonium Hydrogen Orthophosphate

Product Code.	00229	Grade	
Purity	97%	CAS No.	7783-28-0
Molecular Formula	(NH ₄) ₂ HPO ₄	Molecular Weight	132.06
H.S.Code	3105.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	8	Melting point/ Freezing point [°C]	155 °C	Density [g/cm ³]	1.62
Solubility in water [% weight]	132.1 g/l at 20 °C				

Packaging



Specification

Appearance	White Crystals, Crystalline Powder and/or Chunks
Assay (acidimetric)	97.0 - 102.0%
pH (1% solution)	7.6 - 8.2

Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.02%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0003%

Safety Information and Hazard Symbols


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

AMMONIUM PHOSPHATE DIBASIC 98% (FOR MOLECULAR BIOLOGY)

Di-Ammonium Hydrogen Orthophosphate

Product Code.	00231	Grade	
Purity	Min. 98%	CAS No.	7783-28-0
Molecular Formula	(NH4)2HPO4	Molecular Weight	132.06
H.S.Code	31053000.00000	Shelf Life	

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	8	Melting point/ Freezing point [°C]	155 °C	Density [g/cm3]	1.62
Solubility in water [% weight]	132.1 g/l at 20 °C				

Packaging



Specification

Appearance	White Crystals, Crystalline Powder and/or Chunks
Assay (acidimetric)	98.0 - 102.0%
PH (5% solution in CO2 free water)	7.7—8.1
Insoluble matter	Max.0.005%
Chloride (Cl)	Max 0.003%
Nitrate (NO3)	Max 0.003%
Sulphate (SO4)	Max 0.01%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max.0.003%
Iron (Fe)	Max 0.001%

Heavy metal (as Pb)	Max 0.001%
Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.005%

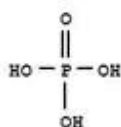
Safety Information and Hazard Symbols


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

AMMONIUM PHOSPHATE DIBASIC 98% AR

Ammonium phosphate dibasic , Ammonium hydrogenphosphate , Di-Ammonium Hydrogen Orthophosphate

Product Code.	00230	Grade	
Purity	Min 98%	CAS No.	7783-28-0
Molecular Formula	(NH ₄) ₂ HPO ₄	Molecular Weight	132.06
H.S.Code	3105.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	8	Melting point/ Freezing point [°C]	155 °C	Density [g/cm ³]	1.62
Solubility in water [% weight]	132.1 g/l at 20 °C				

Packaging



Specification

Appearance	White Crystals, Crystalline Powder and/or Chunks
Assay (acidimetric)	98.0 - 102.0%
PH (5% solution in CO ₂ free water)	7.7—8.1
Insoluble matter	Max.0.005%

Chloride (Cl)	Max 0.003%
Nitrate (NO3)	Max 0.003%
Sulphate (SO4)	Max 0.01%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max.0.003%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Potassium (K)	Max 0.005%
Sodium (Na)	Max 0.005%

Safety Information and Hazard Symbols


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

AMMONIUM PHOSPHATE DIBASIC, 99%, FOR BIOCHEMISTRY

Product Code.	0229A	Grade	For Biochemistry
Purity	99%	CAS No.	7783-28-0
Molecular Formula	H9N2O4P	Molecular Weight	132.06
H.S.Code	3105.30000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	8	Melting point/ Freezing point [°C]	155 °C	Density [g/cm3]	1.62
Solubility in water [% weight]	132.1 g/l at 20 °C				

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Crystals
Titration with HCl	>=98.5 %
Solubility	(1 M in water) Clear colorless
pH	7.5 to 9.0 (1 M in water)
Heavy metals (as Pb)	=<5 ppm
UV	(1 M in water)

Safety Information and Hazard Symbols


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

CALCIUM DIHYDROGEN PHOSPHATE MONOHYDRATE 95% EXTRAPURE

(Calcium Dihydrogen Phosphate)

Product Code.	00660	Grade	
Purity	95%	CAS No.	10031-30-8
Molecular Formula	Ca(H2PO4)2.H2O	Molecular Weight	252.07
H.S.Code	2835.25000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	100°C	Boiling point [°C]	203°C	Density [g/cm3]	2.22
Solubility in water [% weight]	2 g in 100 g of water				

Packaging



Specification

Appearance	White crystalline powder
Assay (on anhydrous basis)	Min 95%
P2O5 content (on anhydrous substance)	55.5 - 61.1%
CaO content	22.26 - 24.8%
Arsenic (As)	Max 0.0003%
Loss on drying	Max 1.0%
Loss on ignition	Max 25.0%
Fluoride (F)	Max 0.003%
Lead (Pb)	Max 0.002%
Mercury (Hg)	Max 0.0001%

Cadmium (Cd)

Max 0.0001%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

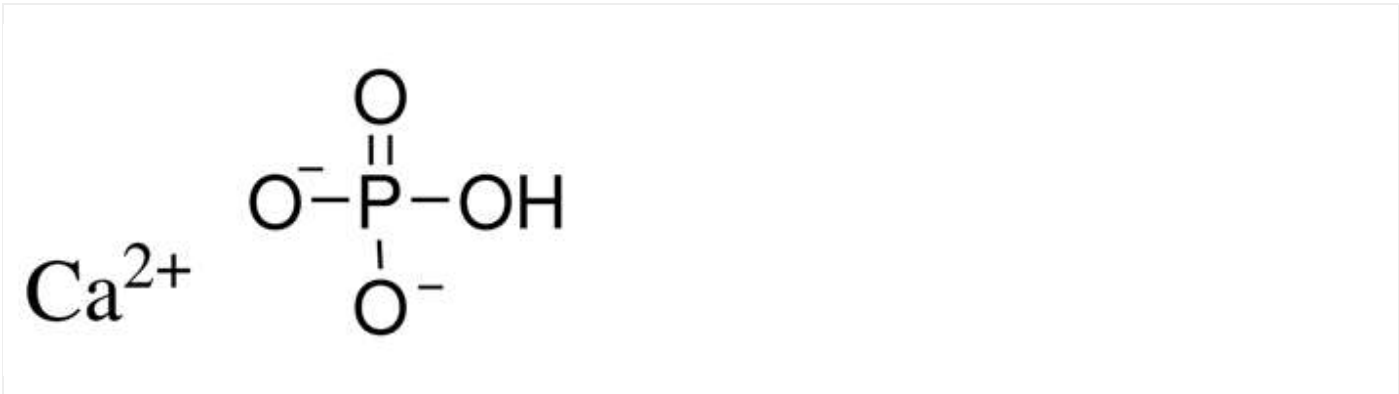
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

CALCIUM HYDROGEN PHOSPHATE ANHYDROUS 98% EXTRAPURE

Confirms to IP Calcium phosphate dibasic

Product Code.	00648	Grade	
Purity	98%	CAS No.	7757-93-9
Molecular Formula	CaHPO4	Molecular Weight	136.06
H.S.Code	2835.25000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Density [g/cm3]	2.3	Solubility in water [% weight]	Insoluble in water		

Packaging



Specification

Appearance	White powder
Assay	98 - 105%
Identifications	To comply IP tests
Acid insoluble matter	Max 0.1%
Arsenic (As)	Max 0.001%

Heavy metal (as Pb)	Max 0.004%
Barium (Ba)	To comply IP tests
Iron (Fe)	Max 0.04%
Chloride (Cl)	Max 0.125%
Carbonate (as CO2)	To comply IP tests
Sulphate (SO4)	Max 0.5%
Nitrate (NO3)	To comply IP tests
Fluoride (F)	Max 0.005%
Reducing substance	To comply IP tests
Proteinous impurities	To comply IP tests
Moncalcium & tricalcium phosphates	To comply IP tests
Loss on ignition (at 500°C)	6.5-8.5%

Safety Information and Hazard Symbols

CALCIUM HYDROGEN PHOSPHATE DIHYDRATE 98% EXTRAPURE

Dibasic Calcium Phosphate Dihydrate

Product Code.	00650	Grade	Extrapure
Purity	98%	CAS No.	7789-77-7
Molecular Formula	CaHPO4.2H2O	Molecular Weight	172.10
H.S.Code	2835.25000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Density [g/cm3]	2.31
Solubility in water [% weight]	0.03 gm in 100 gm of water				

Packaging



Specification

Appearance	White crystalline powder
Assay (complexometric)	98.0 - 105.0%
Substance insoluble in HCl	Max 0.2%
Calcium hydrogen and tri-calcium phosphate	Passes test
Carbonate (as CO3)	Passes test
Chloride (Cl)	Max 0.125%
Fluoride (F)	Max 0.005%
Sulphate (SO4)	Max 0.5%
Heavy metal (as Pb)	Max 0.003%
Arsenic (As)	Max 0.0001%
Barium (Ba)	Passes test

Iron (Fe)	Max 0.04%
Loss on ignition (at 800°C)	24.5 - 26.5%

Safety Information and Hazard Symbols


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

FERRIC PHOSPHATE

Iron(III) Phosphate

Product Code.	01216	Grade	
Purity		CAS No.	51833-68-2
Molecular Formula	FePO4.2H2O	Molecular Weight	0.00
H.S.Code	2835.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White to yellow	Odour	Odorless
Melting point/ Freezing point [°C]	140°C	Decomposition point [°C]	140°C	Density [g/cm3]	2.8
Solubility in water [% weight]	Slightly soluble in water				

Packaging

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Specification

Appearance	White to yellowish powder
Assay (as Fe)	26 - 32%
Arsenic (As)	Max 0.0003%
Fluoride (F)	Max 0.005%
Lead (Pb)	Max 0.001%
Loss on ignition	Max 32.5%
Mercury (Hg)	Max 0.0003%

Safety Information and Hazard Symbols

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FERRIC PYROPHOSPHATE 97% EXTRAPURE

Iron(III) Pyrophosphate

Product Code.	01217	Grade	Extrapure
Purity	97%	CAS No.	10058-44-3
Molecular Formula	Fe4(P2O7)3.xH2O	Molecular Weight	745.21
H.S.Code	2835.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow powder	Odour	Odorless
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Packaging

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Specification

Appearance	A yellowish powder
Assay (on anhydrous basis)	Min 97.0%
Loss on ignition	Max 20%

Safety Information and Hazard Symbols

MAGNESIUM HYDROGEN PHOSPHATE TRIHYDRATE,98%, EXTRA PURE

Product Code.	1601B	Grade	extra pure
Purity	98%	CAS No.	7782-75-4
Molecular Formula	MgHPO4.3H2O	Molecular Weight	174.34
H.S.Code	2835.29200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Decomposition point [°C]	550°C	Density [g/cm3]	2.123	Solubility in water [% weight]	Slightly soluble in water

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Powder
Titration Complexometric	>=97.5 %
Heavy metals (as Pb)	=<20 ppm
Chloride (Cl)	=<200 ppm
Sulfate (SO4)	=<300 ppm
Iron (Fe)	=<50 ppm
Arsenic (As)	=<1 ppm

Safety Information and Hazard Symbols

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MAGNESIUM PHOSPHATE DIBASIC TRIHYDRATE 98% EXTRAPURE

Magnesium hydrogen phosphate trihydrate, Newberyite

Product Code.	01601	Grade	
Purity	98%	CAS No.	7782-75-4
Molecular Formula	HMgO4P.3H2O	Molecular Weight	174.34
H.S.Code	2835.29200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Decomposition point [°C]	550°C	Density [g/cm3]	2.123	Solubility in water [% weight]	Slightly soluble in water

Packaging

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Specification

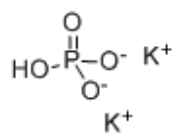
Appearance	White Powder
Assay (complexometric)	Min 98%
Insoluble matter in HCl	Max 0.05%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.5%
Arsenic (As)	Max 0.0001%
Copper (Cu)	Max 0.005%
Iron (Fe)	Max 0.005%
Nickel (Ni)	Max 0.005%
Lead (Pb)	Max 0.005%

Safety Information and Hazard Symbols

POTASSIUM PHOSPHATE DIBASIC ANHYDROUS 98% EXTRAPURE

Confirms to BP, USP Dipotassium hydrogen orthophosphate, Dipotassium phosphate

Product Code.	02160	Grade	
Purity	98%	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 (acidimetric; on anhydrous basis)	98 - 100.5%
pH (10% solution in water)	8.5 - 9.6
Appearance of solution	Passes test
Insoluble matter in water	Max 0.2%
Carbonate	Passes test
Chloride (Cl)	Max 0.02%

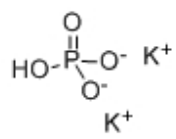
Fluoride (F)	Max 0.001%
Sulphate (SO4)	Max 0.1%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Arsenic (As)	Max 0.0002%
Sodium (Na)	Max 0.5%
Potassium hydrogen phosphate (KH2PO4)	Max 3.0%
KMnO4 reducing matter (as O)	Max 0.04%
Loss on drying (at 130°C)	Max 1%

Safety Information and Hazard Symbols

POTASSIUM PHOSPHATE DIBASIC ANHYDROUS 99% AR

Dipotassium hydrogen orthophosphate; Dipotassium phosphate; sec.-Potassium phosphate

Product Code.	02161	Grade	
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	Min 99%
pH (5% solution in water; 25°C)	8.7 - 9.6
Chloride (Cl)	Max 0.003%
Heavy metal (as Pb)	Max 0.0005%
Insoluble matter	Max 0.01%
Iron (Fe)	Max 0.001%

Loss on drying (at 105°C)	Max 1%
Nitrogen compounds (as N)	Max 0.001%
Sodium (Na)	Max 0.5%
Sulphate (SO4)	Max 0.005%

Safety Information and Hazard Symbols

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POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS 98% EXTRAPURE

Confirms to BP Monopotassium phosphate, Potassium dihydrogen phosphate Monobasic

Product Code.	02163`	Grade	Extrapure
Purity	98%	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				

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric; on dried basis)	98.0 - 100.5%
Appearance of solution	Passes test
Identification as per pharma	Passes test
pH (10% solution in water)	4.2 - 4.5
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.03%
Fluoride (F)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0002%
Iron (Fe)	Max 0.001%
Sodium (Na)	Max 0.1%
Reducing substances by KMnO4 (as O)	Max 0.04%

Insoluble substances and organic matter	Max 0.2%
Loss on drying (at 130°C)	Max 1.0%

Safety Information and Hazard Symbols

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POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS 99.5% AR

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

Product Code.	02164	Grade	AR
Purity	99.5%	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				

Packaging

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Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99.5%
pH (5% solution in water; 25°C)	4.1 - 4.5
Insoluble matter in water	Max 0.01%
Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.003%
Total nitrogen (N)	Max 0.001%
Heavy metals (by ICP-OES)	Max 0.001%
Iron (Fe)	Max 0.001%
Sodium (Na)	Max 0.005%
Loss on dryig (at 105°C; 2 hrs)	Max 0.2%

Safety Information and Hazard Symbols

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POTASSIUM PHOSPHATE TRIBASIC MONOHYDRATE 96% EXTRA PURE

Product Code.	2165A	Grade	Extra Pure
Purity	96%	CAS No.	27176-10-9
Molecular Formula	K3O4P.H2O	Molecular Weight	230.28
H.S.Code	0.00000	Shelf Life	60 Months

Physical Properties

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Powder or crystals or granules
Titration with HClO4	>=95 %
Heavy metals (as Pb)	=<20 ppm
Loss on ignition	=<13 % (800°C)
Chloride (Cl)	=<50 ppm
Sulfate (SO4)	=<200 ppm
Iron (Fe)	=<20 ppm

Safety Information and Hazard Symbols

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SODIUM DIHYDROGEN ORTHOPHOSPHATE ANHYDROUS 99% AR

Product Code.	2402C	Grade	AR
Purity	99%	CAS No.	7558-80-7
Molecular Formula	NaH2PO4	Molecular Weight	119.98
H.S.Code	2835.22000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White	Odour	Odourless
pH value	4.1 - 4.5 at 50 g/l at 25°C	Melting point/ Freezing point	212.0	Boiling point [°C]	399.0
Density [g/cm3]	2.04	Solubility in water	Soluble		

Specification

Appearance	White crystalline powder
Assay (alkalimetric)	99.0-101.0%
pH (5% solution in water; 25°C)	4.1 to 4.7
Insoluble matter in water	Max 0.05%
Nitrogen compounds (as N)	Max 0.002%
Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.005%
Arsenic (As)	Max 0.0001%
Calcium (Ca)	Max 0.01%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.001%
Magnesium (Mg)	Max 0.01%
Nickel (Ni)	Max 0.001%
Lead (Pb)	Max 0.002%

SODIUM HEXAMETAPHOSPHATE 68% EXTRAPURE

Calgon S; Glassy sodium; Graham's salt; Hexasodium metaphosphate; Metaphosphoric acid hexasodium salt

Product Code.	02416	Grade	Extrapure
Purity	68%	CAS No.	10124-56-8
Molecular Formula	Mainly(NaPO3)6	Molecular Weight	611.78
H.S.Code	2835.29400	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]	628 °C	Boiling point [°C]	1500°C
Density [g/cm3]	1.25	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	White crystalline powder
Assay	Min 68.0%
Chloride (Cl)	Max 0.02%
Heavy metal (as Pb)	Max 0.005%
Iron (Fe)	Max 0.01%

SODIUM PHOSPHATE DIBASIC ANHYDROUS 98% EXTRAPURE

sec-Sodium phosphate; Disodium hydrogen phosphate; Disodium phosphat; Sodium hydrogen phosphate

Product Code.	02480	Grade	
Purity	98%	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

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Specification

Appearance	White granular powder
Assay	98 - 100.5%
pH (1% solution in water)	8.7 - 9.3
Substance insoluble in water	Max 0.2%
Chloride (Cl)	Max 0.02%

Fluoride (F)	Max 0.001%
Sulphate (SO4)	Max 0.05%
Heavy metal (as Pb)	Max 0.001%
Ammonium (NH4)	Max 0.002%
Arsenic (As)	Max 0.0002%
Copper (Cu)	Max 0.0025%
Iron (Fe)	Max 0.002%
Lead (Pb)	Max 0.001%
Zinc (Zn)	Max 0.0025%
Loss on drying (at 130°C)	Max 1.0%

Safety Information and Hazard Symbols

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SODIUM PHOSPHATE DIBASIC ANHYDROUS 99% AR

sec-Sodium phosphate; Disodium hydrogen phosphate; Disodium phosphat; Sodium hydrogen phosphate

Product Code.	02481	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

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Specification

Appearance	White crystalline powder
Assay (on anhydrous basis)	Min 99%
pH (5% solution in water)	8.7 - 9.3
Insoluble matter	Max 0.01%
Chloride (Cl)	Max 0.002%

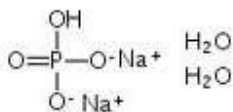
Nitrogen compounds (as N)	Max 0.002%
Sulphate (SO4)	Max 0.005%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.001%
Lead (Pb)	Max 0.001%
Potassium (K)	Max 0.01%
Loss on drying (at 130°C)	Max 5.0%

Safety Information and Hazard Symbols

SODIUM PHOSPHATE DIBASIC DIHYDRATE 97% EXTRAPURE

sec-Sodium phosphate; Disodium hydrogen phosphate; Disodium phosphat; Sodium hydrogen phosphate dihydrate

Product Code.	02483	Grade	Extrapure
Purity	97%	CAS No.	10028-24-7
Molecular Formula	Na2HPO4.2H2O	Molecular Weight	177.99
H.S.Code	2835.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9.1	Solubility in water [% weight]	Soluble in water		

Packaging

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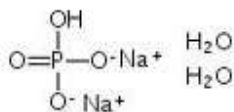
Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 97%
pH (2% solution)	8.8 - 9.4
Chloride (Cl)	Max 0.02%
Sulphate (SO4)	Max 0.1%
Iron (Fe)	Max 0.01%
Lead (Pb)	Max 0.01%

SODIUM PHOSPHATE DIBASIC DIHYDRATE 99.5% AR

sec-Sodium phosphate; Disodium hydrogen phosphate; Disodium phosphat; Sodium hydrogen phosphate dihydrate

Product Code.	02484	Grade	AR
Purity	99.5%	CAS No.	10028-24-7
Molecular Formula	Na2HPO4.2H2O	Molecular Weight	177.99
H.S.Code	2835.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	9.1	Solubility in water [% weight]	Soluble in water		

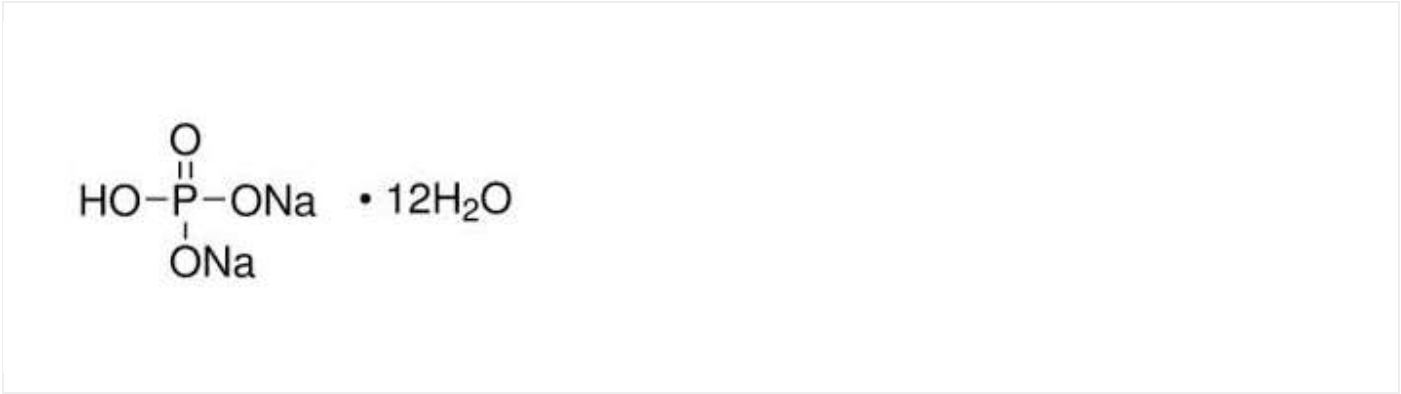
Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 99.5%
pH (5% solution in water)	8.8 - 9.4
Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Total nitrogen (N)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Potassium (K)	Max 0.005%

SODIUM PHOSPHATE DIBASIC DODECAHYDRATE 98.5% EXTRAPURE

sec-Sodium phosphate; Sodium phosphate dibasic; Disodium phosphat; Sodium hydrogen phosphate dodecahydrate

Product Code.	02486	Grade	
Purity	98.5%	CAS No.	10039-32-4
Molecular Formula	Na2HPO4.12H2O	Molecular Weight	358.14
H.S.Code	2835.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	8.4 - 9.6 at 36 g/l at 25 °C	Melting point/ Freezing point [°C]	34°C	Density [g/cm3]	1.5
Solubility in water [% weight]	35.8 g/l at 20 °C				

Packaging

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Specification

Appearance	Colourless crystals
Assay (acidimetric)	98.5 - 100.5%
pH (5% solution in water)	9.0 - 9.3
Chloride (Cl)	Max. 0.01%
Sulphate (SO4)	Max. 0.01%
Sodium dihydrogen phosphate (NaH2PO4)	Max. 1.0%

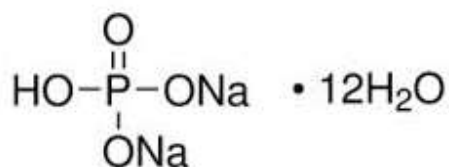
Heavy metal (as Pb)	Max. 0.001%
Iron (Fe)	Max. 0.001%
Arsenic (As)	Max. 0.0001%
Substance reducing KMnO4 (as O)	Max. 0.02%
Loss on drying (at 130°C)	57 - 61%
Water (by KF)	57 - 61%

Safety Information and Hazard Symbols

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sec-Sodium phosphate; Sodium phosphate dibasic; Disodium phosphat; Sodium hydrogen phosphate dodecahydrate

Product Code.	02487	Grade	AR
Purity	99%	CAS No.	10039-32-4
Molecular Formula	Na2HPO4.12H2O	Molecular Weight	358.14
H.S.Code	2835.29900	Shelf Life	60 Months



Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	8.4 - 9.6 at 36 g/l at 25 °C	Melting point/ Freezing point [°C]	34°C	Density [g/cm3]	1.5
Solubility in water [% weight]	35.8 g/l at 20 °C				

Appearance	Colorless crystals
Assay (as Na2HPO4.12H2O)	Min. 99.0%
pH (5% solution; 20°C)	9.1 - 9.4
Chloride (Cl)	Max. 0.005%
Sulphate (SO4)	Max. 0.005%
Total nitrogen (N)	Max. 0.001%

Heavy metal (as Pb)	Max. 0.0005%
Iron (Fe)	Max. 0.0005%
Potassium (K)	Max. 0.005%
Arsenic (As)	Max. 0.00005%

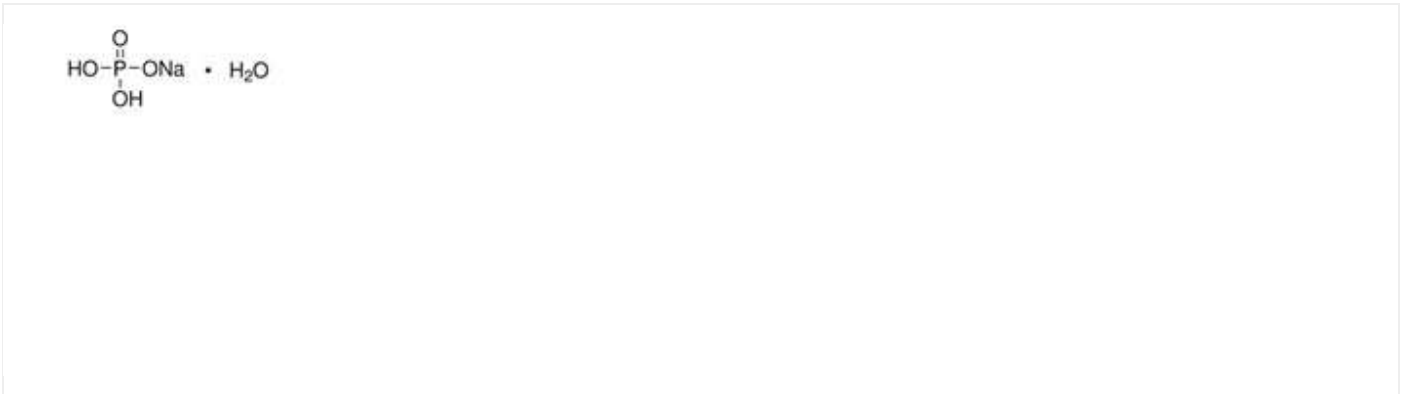
Safety Information and Hazard Symbols

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SODIUM PHOSPHATE MONOBASIC DIHYDRATE 98% EXTRAPURE

Sodium phosphate monobasic monohydrate

Product Code.	02488	Grade	Extrapure
Purity	98%	CAS No.	10049-21-5
Molecular Formula	NaH2PO4.2H2O	Molecular Weight	156.01
H.S.Code	2835.22000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.1 - 4.5 at 50 g/l at 25 °C	Melting point/ Freezing point [°C]	212°C	Boiling point [°C]	399 °C
Density [g/cm3]	2.04	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	Colourless crystals
Assay	98.0 - 102.0%
Insoluble matter in water	Max. 0.01%
pH (5% solution in water)	4.1 - 4.5
Chloride (Cl)	Max. 0.0005%
Sulphate (SO4)	Max. 0.003%

Total nitrogen (N)	Max. 0.001%
Heavy metal (as Pb)	Max. 0.0005%
Calcium (Ca)	Max. 0.005%
Iron (Fe)	Max. 0.0005%
Potassium (K)	Max. 0.005%

Safety Information and Hazard Symbols

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SODIUM PHOSPHATE MONOBASIC DIHYDRATE 99% AR

(sodium acid phosphate) (sodium dihydrogen orthophosphate)

Product Code.	02489	Grade	AR
Purity	99%	CAS No.	13472-35-0
Molecular Formula	NaH2PO4.2H2O	Molecular Weight	156.01
H.S.Code	28352200.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.2 - 4.5	Melting point/ Freezing point [°C]	60°C	Density [g/cm3]	1.92
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	Colorless crystals or white crystalline powder
Assay	99.0 - 100.5%
Identity (acc. to pharmacopoeias)	Passes test
Appearance of solution	Passes test
Insoluble matter in water	Max 0.01%
pH (1% solution in water)	4.1-4.7
pH (5% solution in water; 20°C)	4.2-4.5
pH (5.7% solution in water)	4.1-4.5
Chloride (Cl)	Max 0.001%
Sulphate (SO4)	Max 0.005%

Aluminium, calcium and related elements	Passes test
Substance reducing KMnO4 (as O)	Passes test
Arsenic (As)	Max 0.0002%
Calcium (Ca)	Max 0.002%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%
Magnesium (Mg)	Max 0.001%
Potassium (K)	Max 0.005%
Loss on drying (at 130°C)	21.5 - 24.0%

Safety Information and Hazard Symbols

SODIUM PHOSPHATE TRIBASIC DODECAHYDRATE, 98%, FOR ANALYSIS

Product Code.	2491A	Grade	
Purity	98%	CAS No.	10101-89-0
Molecular Formula	Na3O4P.12H2O	Molecular Weight	380.13
H.S.Code	2835.29900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	13 at 190 g/l at 25 °C
Melting point/ Freezing point [°C]	75 °C	Density [g/cm3]	1.62	Solubility in water [% weight]	190 g/l at 20 °C

Specification

Appearance (Color)	Colorless to white
Appearance (Form)	Powder or crystals or needles
Titration excess HCl	97.5 to 102.5 %
Free alkali (NaOH)	=<2.5 %
Heavy metals (as Pb)	=<20 ppm
Chloride (Cl)	=<100 ppm
Sulfate (SO4)	=<100 ppm
Iron (Fe)	=<50 ppm

Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3262 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

SODIUM PHOSPHATE, DIBASIC HEPTAHYDRATE 99+%, FOR ANALYSIS

Product Code.	2487A	Grade	
Purity	99%	CAS No.	7782-85-6
Molecular Formula	Na2HPO4 .7H2O	Molecular Weight	268.07
H.S.Code	0.00000	Shelf Life	60 Months

Physical Properties

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Crystals
Titration with HCl	>=99.0 %
Heavy metals (as Pb)	=<5 ppm
pH	9.0 to 9.3 (5 % at 20°C)
Sulfate (SO4)	=<50 ppm
Chloride (Cl)	=<10 ppm
Arsenic (As)	=<5 ppm
Iron (Fe)	=<5 ppm
Potassium (K)	=<100 ppm

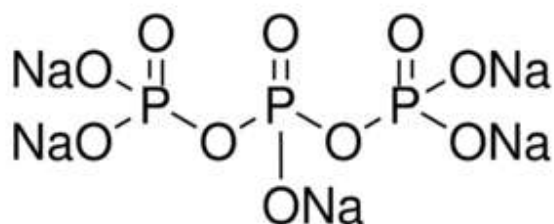
Safety Information and Hazard Symbols

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SODIUM TRIPOLYPHOSPHATE ANHYDROUS EXTRAPURE

STPP

Product Code.	02535	Grade	Extrapure
Purity		CAS No.	7758-29-4
Molecular Formula	Na ₅ O ₁₀ P ₃	Molecular Weight	367.86
H.S.Code	2835.31000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	9.5 - 10.3 at 1 g/l at 20 °C	Melting point/ Freezing point [°C]	622 °C	Density [g/cm ³]	> 1.5
Solubility in water [% weight]	145 g/l (20°C)				

Specification

Appearance	White powder
Total P ₂ O ₅ w/w	Min 56%
Tripoly w/w	Min 90%
pH (1% solution in water)	9 - 10

Safety Information and Hazard Symbols


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

TRI-CALCIUM PHOSPHATE EXTRAPURE

tri-CALCIUM PHOSPHATE

Product Code.	00661	Grade	Extrapure
Purity		CAS No.	7758-87-4
Molecular Formula	Ca3O8P2	Molecular Weight	310.18
H.S.Code	2835.26100	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	1670 °C	Density [g/cm3]	3.14	Solubility in water [% weight]	Insoluble in water

Packaging



Specification

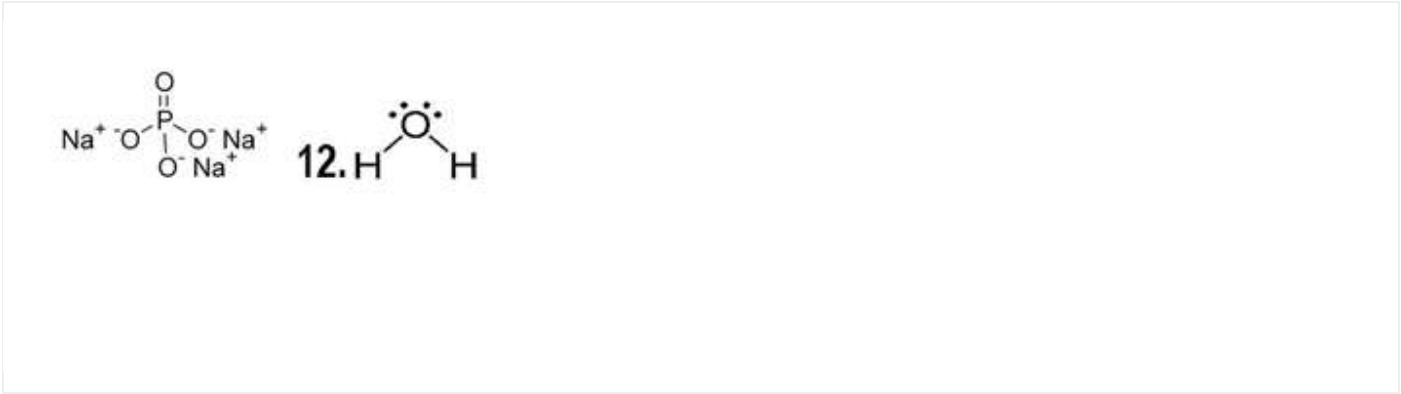
Appearance	Colorless Crystals or White or almost white powder
Assay (as Ca; on ignited basis)	34 - 40%
Loss on ignition (at 800°C)	Max 8.0%
Iron (Fe)	Max 0.04%

Safety Information and Hazard Symbols

TRI-SODIUM ORTHOPHOSPHATE DODECAHYDRATE 98% AR

Trisodium orthophosphate dodecahydrate; Sodium phosphate tribasic dodecahydrate; Trisodium phosphate dodecahydrate; TSP do

Product Code.	02491	Grade	AR
Purity	98%	CAS No.	10101-89-0
Molecular Formula	Na3PO4.12H2O	Molecular Weight	380.12
H.S.Code	2835.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	13 at 190 g/l at 25 °C
Melting point/ Freezing point [°C]	75 °C	Density [g/cm3]	1.62	Solubility in water [% weight]	190 g/l at 20 °C

Packaging

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Specification

Appearance	A white crystalline powder
Assay	98.0 - 102.0%
Insoluble matter	Max 0.01%
Free alkali (as NaOH)	Max 2.5%
Chloride (Cl)	Max 0.005%
Nitrogen compounds (as N)	Max 0.001%
Sulphate (SO4)	Max 0.005%

Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.0005%

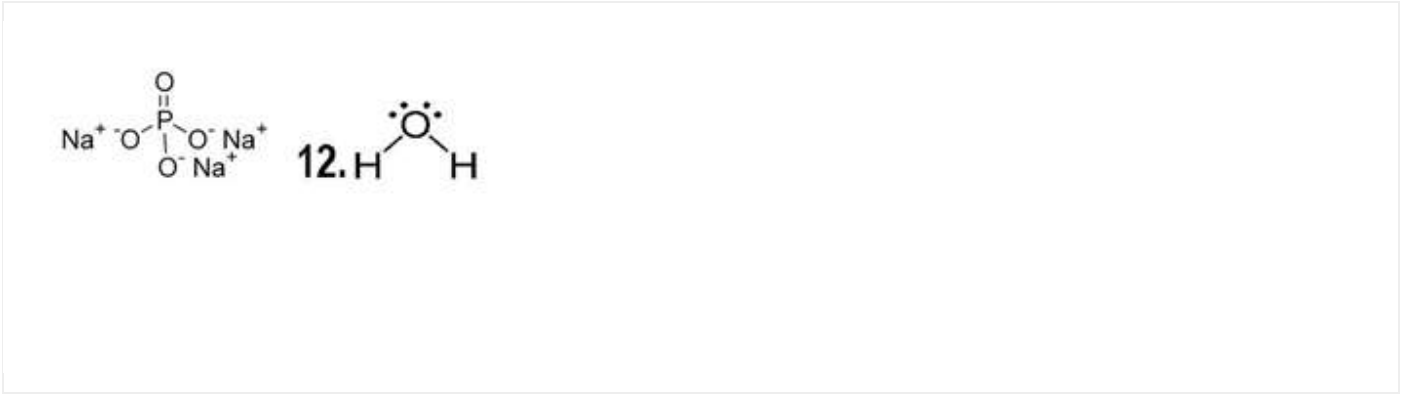
Safety Information and Hazard Symbols


Symbol: GHS05 Signal Word: Danger UN No.: 3262 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H314 Precaution Statement: P280-P305 + P351 + P338-P310

TRI-SODIUM ORTHOPHOSPHATE DODECAHYDRATE 98% EXTRAPURE

Trisodium orthophosphate dodecahydrate; Sodium phosphate tribasic dodecahydrate; Trisodium phosphate dodecahydrate; TSP do

Product Code.	02490	Grade	
Purity	98%	CAS No.	10101-89-0
Molecular Formula	Na3PO4.12H2O	Molecular Weight	380.12
H.S.Code	2835.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	pH value	13 at 190 g/l at 25 °C
Melting point/ Freezing point [°C]	75 °C	Density [g/cm3]	1.62	Solubility in water [% weight]	190 g/l at 20 °C

Packaging

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Specification

Appearance	A white crystalline powder
Assay	Min 98.0%
Chloride (Cl)	Max 0.1%
Sulphate (SO4)	Max 0.05%
Free alkali (as NaOH)	Max 2.5%
Iron (Fe)	Max 0.04%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3262

IMCO Class No.: 8

Packing Group: III

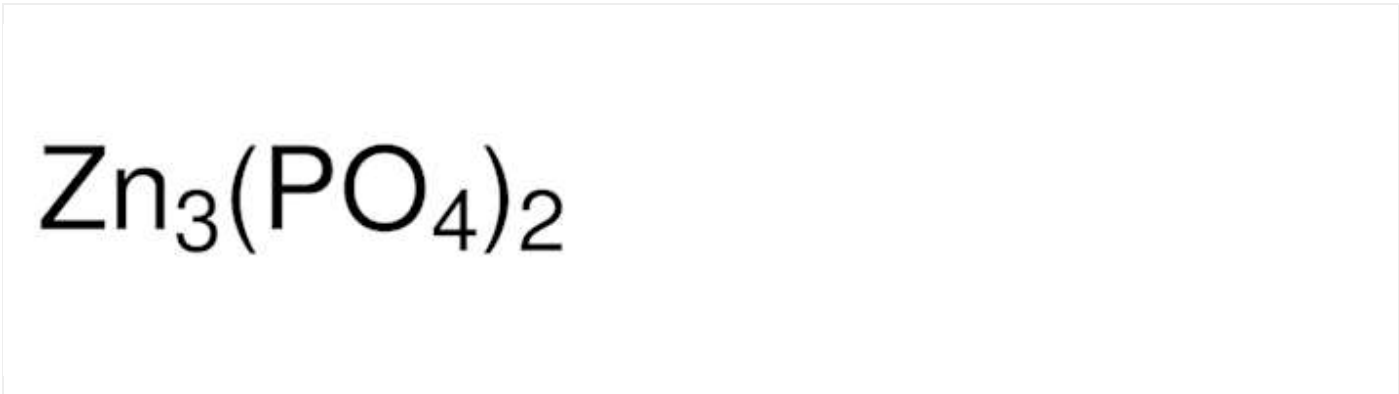
Hazardous Statement: H314

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

ZINC PHOSPHATE EXTRAPURE

Soluble in acids and ammonium hydroxide Insoluble in water.

Product Code.	02883	Grade	
Purity		CAS No.	7779-90-0
Molecular Formula	Zn3(PO4)2	Molecular Weight	386.11
H.S.Code	2835.39000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
Melting point/ Freezing point [°C]	900 °C	Density [g/cm3]	3.998	Solubility in water [% weight]	Insoluble in water

Specification

Appearance	White powder
Assay (as Zn; complexometric)	Min 33.5%

Safety Information and Hazard Symbols


Symbol: GHS09 Signal Word: Warning UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H410 Precaution Statement: P273-P501

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Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
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Киров (8332)68-02-04
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Кострома (4942)77-07-48
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
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