

МИН И СОЛИ АМИНОВ

Технические характеристики

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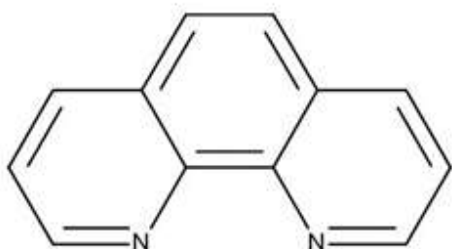
эл.почта: pva@nt-rt.ru || сайт: <https://pallav.nt-rt.ru/>

1.10-PHENANTHROLINE HYDROCHLORIDE MONOHYDRATE 99.5% AR

Reagent for colorimetric determination of iron. Water soluble o-Phenanthroline hydrochloride monohydrate

Product Code.	01967	Grade	AR
Purity	99.5%	CAS No.	18851-33-7
Molecular Formula	C12H9CIN2.H2O	Molecular Weight	234.69
H.S.Code	2933.99000	Shelf Life	60 Months

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Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Melting point/ Freezing point [°C]	224 - 225 °C
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White to light yellow to light purple powder or crystals
Assay (acidimetric)	Min 99.5%
Substance insoluble in water	Passes test
Water (H2O)	7 - 8.5%
Sulphated ash	Max 0.2%
Suitability (as indicator)	Passes test
Sensitivity test for iron (II)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS06, GHS09

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

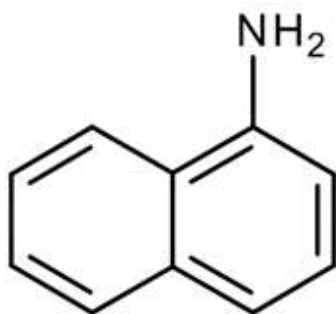
Hazardous Statement: H301-H410

Precaution Statement: P273-P301 + P310-P501

1-NAPHTHYLAMINE 98% EXTRAPURE

a-Naphthylamine, 1-Aminonaphthalene ;(1-naphthylamine

Product Code.	01789	Grade	
Purity	98%	CAS No.	134-32-7
Molecular Formula	C10H9N	Molecular Weight	143.19
H.S.Code	2921.45110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish Crystalline	Odour	Ammonia odor
pH value	7.1 at 1 g/l at 20 °C	Melting point/ Freezing point [°C]	47 - 50 °C	Flash point [°C]	157 °C
Boiling point [°C]	301 °C	Vapour pressure [20°C]	0.004 hPa at 20 °C	Density [g/cm3]	1.114
Solubility in water [% weight]	Very slightly soluble in cold water	Partition coefficient Log Pow octanol / water at 20°C	2.1		

Packaging

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Specification

Appearance	Tan to purple coloured crystalline powder
Assay	Min 98%
Melting point	47 - 50 deg C

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08, GHS09

Signal Word: Danger

UN No.: 2077

IMCO Class No.: 6.1

Packing Group: III

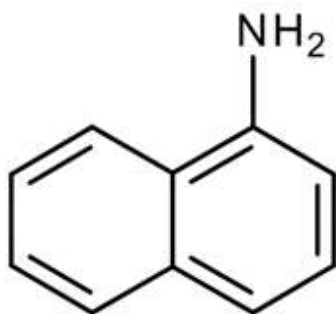
Hazardous Statement: H302-H350-H411

Precaution Statement: P201-P273-P308 + P313

1-NAPHTHYLAMINE 99% AR

Reagent for gold a-Naphthylamine, 1-Aminonaphthalene ; 1-naphthylamine

Product Code.	01790	Grade	AR
Purity	99%	CAS No.	134-32-7
Molecular Formula	C ₁₀ H ₉ N	Molecular Weight	143.19
H.S.Code	2921.45110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish Crystalline	Odour	Ammonia odor
pH value	7.1 at 1 g/l at 20 °C	Melting point/ Freezing point [°C]	47 - 50 °C	Flash point [°C]	157 °C
Boiling point [°C]	301 °C	Vapour pressure [20°C]	0.004 hPa at 20 °C	Density [g/cm ³]	1.114
Solubility in water [% weight]	Very slightly soluble in cold water	Partition coefficient Log Pow octanol / water at 20°C	2.1		

Packaging

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Specification

Appearance	Tan to purple colored crystalline powder
Assay	Min. 99.0%
Substance insoluble in acetic acid	Max 0.02%
Melting point	48 - 50°C

Heavy metal (as Pb)	Max. 0.001%
2-Naphthylamine	Max. 0.1%
Water (H ₂ O)	Max. 0.2%

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08, GHS09

Signal Word: Danger

UN No.: 2077

IMCO Class No.: 6.1

Packing Group: III

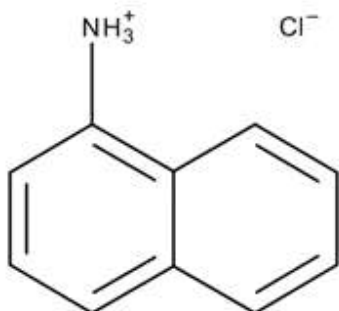
Hazardous Statement: H302-H350-H411

Precaution Statement: P201-P273-P308 + P313

1-NAPHTHYLAMINE HYDROCHLORIDE 98% FOR SYNTHESIS

1-Amino-naphthalene hydrochloride; alphaNaphthylamine hydrochloride; 1-Naphthalenamine hydrochloride

Product Code.	01791	Grade	
Purity	98%	CAS No.	552-46-5
Molecular Formula	C10H10ClN	Molecular Weight	179.65
H.S.Code	2921.45110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to greyish white	Odour	Ammonia odour
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	White to grayish white powder
Assay	Min 98%
Identity (IR)	Conforms

Safety Information and Hazard Symbols

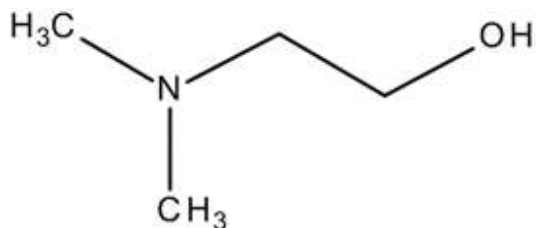


Symbol: GHS07
Signal Word: Danger
UN No.: 2811
IMCO Class No.: 6.1
Packing Group: III
Hazardous Statement: H302
Risk Statement: 22

2-(DIMETHYLAMINO)-ETHANOL 99% FOR SYNTHESIS

N,N-Dimethyl-2-hydroxyethylamine, N,N-Dimethylethanolamine, DMEA, Jeffcat DMEA

Product Code.	01029	Grade	
Purity	99%	CAS No.	108-01-0
Molecular Formula	C4H11NO	Molecular Weight	89.14
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Amine like
pH value	10.5 - 11.0 at 100 g/l at 20 °C	Melting point/ Freezing point [°C]	-70 °C	Auto-ignition temperature [°C]	295°C
Flash point [°C]	39 °C	Boiling point [°C]	134 - 136 °C	Initial boiling point [°C]	134°C
Final boiling point [°C]	136 °C	Vapour pressure [20°C]	8.16 hPa at 20 °C	Vapour density	3.03
Density [g/cm ³]	0.89	Solubility in water [% weight]	Miscible in water	Partition coefficient Log Pow octanol / water at 20°C	0.55
Explosion limits - upper [%]	12.20%	Explosion limits -lower [%]	1.40%		

Packaging

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Specification

Appearance	Clear, almost colorless liquid
Assay	Min 99%
Density (d _{20°C/4°C})	0.886 - 0.887

Water (H₂O)

Max 0.3%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 2051

IMCO Class No.: 8,3

Packing Group: II

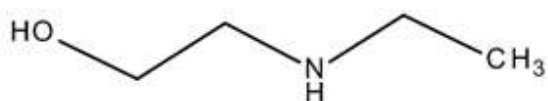
Hazardous Statement: H226-H302-H312-H314-H332

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

2-(ETHYLAMINO) ETHANOL 97% FOR SYNTHESIS

N-Ethylethanolamine

Product Code.	01147	Grade	
Purity	97%	CAS No.	110-73-6
Molecular Formula	C4H11NO	Molecular Weight	89.14
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Melting point/ Freezing point [°C]	- 90.0 °C
Auto-ignition temperature [°C]	330°C	Flash point [°C]	71 °C	Boiling point [°C]	165 °C
Vapour pressure [20°C]	< 1 mmHg 20 °C	Vapour pressure mm/Hg	< 1 mm Hg 20 °C	Vapour density	3
Density [g/cm3]	0.914	Solubility in water [% weight]	Miscible in cold water	Explosion limits - upper [%]	11.70%
Explosion limits -lower [%]	1.10%				

Packaging

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Specification

Appearance	A clear Colourless liquid
Assay (GC area %)	Min 97%
Density (d20°C/4°C)	0.914 - 0.917
Identity (IR)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 2810

IMCO Class No.: 6.1

Packing Group: III

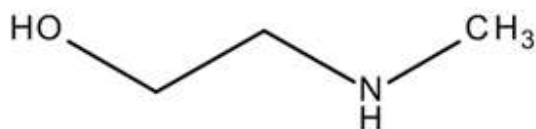
Hazardous Statement: H302-H311-H318

Precaution Statement: P280-P305 + P351 + P338-P312

2-(METHYLAMINO) ETHANOL 98% FOR SYNTHESIS

N-Methylethanolamine

Product Code.	01709	Grade	
Purity	98%	CAS No.	109-83-1
Molecular Formula	C3H9NO	Molecular Weight	75.11
H.S.Code	2922.19900	Shelf Life	60 Months



Specification

Appearance	A clear colorless liquid
Assay (GC area %)	Min 98%
Density (d _{20°C/4°C})	0.938 - 0.940
Identity (IR)	Passes test

Safety Information and Hazard Symbols

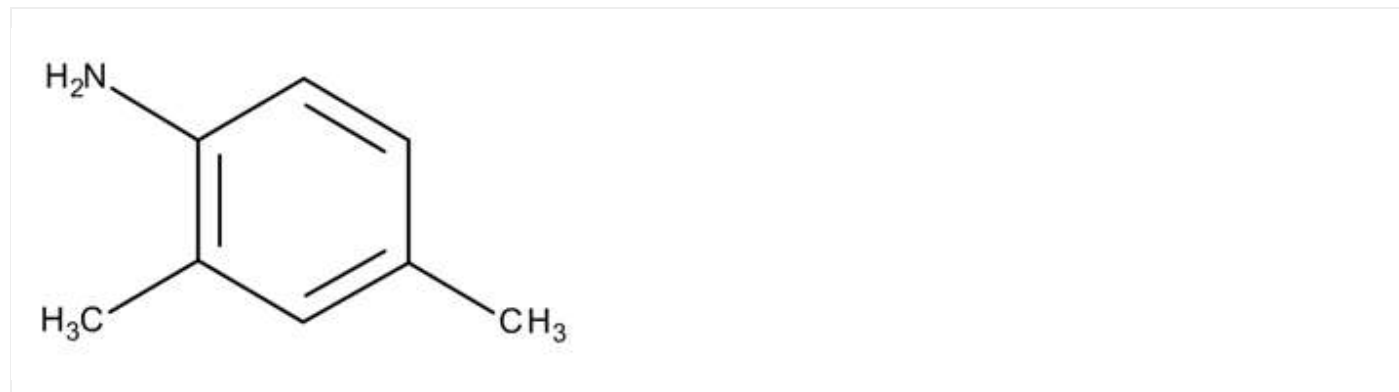


Symbol: GHS05, GHS07
Signal Word: Danger
UN No.: 2735
IMCO Class No.: 8
Packing Group: III
Hazardous Statement: H302-H312-H314
Precaution Statement: P280-P305 + P351 + P338-P310

2,4 XYLIDINE 98% EXTRAPURE

1-Amino-2,4-dimethylbenzene, 2,4-Dimethylaniline, 4-Amino-m-xylene

Product Code.	02856	Grade	
Purity	98%	CAS No.	95-68-1
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.49100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Yellowish brown	Odour	Amine like
Melting point/ Freezing point [°C]	-14 °C	Auto-ignition temperature [°C]	460°C	Flash point [°C]	98 °C
Boiling point [°C]	218 °C	Vapour density	4.18	Density [g/cm3]	0.98
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	1.68	Explosion limits - upper [%]	7%
Explosion limits -lower [%]	1.10%				

Packaging

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Specification

Appearance	Yellowish brown liquid
Assay (GC area %)	Min 98%
Refractive index (15°C; 589 nm)	~1.5558
Density (d20°C/4°C)	0.975 - 0.977

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1711

IMCO Class No.: 6.1

Packing Group: II

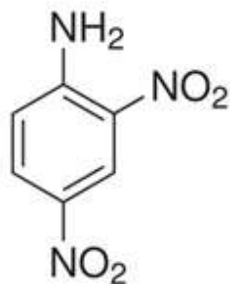
Hazardous Statement: H301-H311-H331-H373-H411

Precaution Statement: P261-P273-P280-P301 + P310-P311

2,4-DINITRO ANILINE 98% FOR SYNTHESIS

2,4-Dinitrobenzenamine; 2,4-Dinitrophenylamine.

Product Code.	01055	Grade	
Purity	98%	CAS No.	97-02-9
Molecular Formula	C6H5N3O4	Molecular Weight	183.12
H.S.Code	2921.42260	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow powder	Melting point/ Freezing point [°C]	176 - 178 °C
Decomposition point [°C]	290 °C	Auto-ignition temperature [°C]	> 350°C	Flash point [°C]	89 °C
Boiling point [°C]	56.7 °C	Vapour pressure [20°C]	13 mbar @ 20°C	Vapour density	6.31
Density [g/cm ³]	1.615	Solubility in water [% weight]	Insoluble	Partition coefficient Log Pow octanol / water at 20°C	5

Packaging

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Specification

Appearance	Yellow coloured powder
Assay (GC area %)	Min 99%
Melting range	177 - 180 deg C
Identity (IR)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1596

IMCO Class No.: 6.1

Packing Group: II

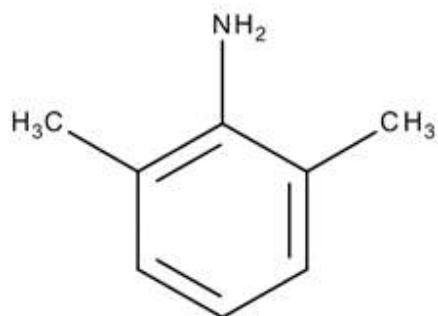
Hazardous Statement: H300-H310-H330-H373-H411

Precaution Statement: P260-P264-P273-P280-P284-P301 + P310

2,6 XYLIDINE 98% EXTRAPURE

2,6-Dimethylaniline

Product Code.	02857	Grade	
Purity	98%	CAS No.	87-62-7
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.49100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Pale yellow to brown	pH value	12.5
Melting point/ Freezing point [°C]	10 - 12 °C	Flash point [°C]	91 °C	Boiling point [°C]	214 °C
Vapour pressure [20°C]	0.20 hPa at 20 °C	Density [g/cm ³]	0.9842	Solubility in water [% weight]	slightly soluble in cold water
Partition coefficient Log Pow octanol / water at 20°C	1.96	Explosion limits - upper [%]	6.90%	Explosion limits -lower [%]	1.30%

Packaging

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Specification

Appearance	Clear yellow to red - brown liquid
Assay (GC area %)	Min. 98%
Refractive index (20°C; 589 nm)	1.5591 to 1.5611
Density (d _{20°C/4°C})	0.979 - 0.981

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08, GHS09

Signal Word: Warning

UN No.: 1711

IMCO Class No.: 6.1

Packing Group: II

Hazardous Statement: H302-H312-H315-H332-H335-H351-H411

Precaution Statement: P261-P273-P280

2-BROMOETHYLAMINE HYDROBROMIDE 99% FOR SYNTHESIS

2-Aminoethyl bromide hydrobromide

Product Code.	00503	Grade	
Purity	99%	CAS No.	2576-47-8
Molecular Formula	C2H7Br2N	Molecular Weight	204.90
H.S.Code	2903.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colourless crystals	Melting point/ Freezing point [°C]	170 - 175 °C
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	White to off white crystalline powder.
Assay (argentometric)	Min 99%
Melting range	171 - 175 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

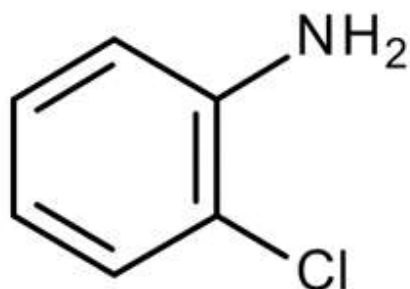
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

2-CHLOROANILINE 98% FOR SYNTHESIS

2-Chlorobenzenamine; o-Chloroaniline ; 4-Chloro Aniline

Product Code.	00752	Grade	
Purity	98%	CAS No.	95-51-2
Molecular Formula	C6H6ClN	Molecular Weight	127.57
H.S.Code	2921.42110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to yellowish liquid	Odour	Characteristic odour
Melting point/ Freezing point [°C]	- 2 °C	Auto-ignition temperature [°C]	500°C	Flash point [°C]	108 °C
Boiling point [°C]	209 °C	Vapour density	4.41	Density [g/cm3]	1.213
Relative density, gas (air=1)	1	Relative density, liquid (water=1)	1.213	Partition coefficient Log Pow octanol / water at 20°C	1.92

Packaging

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Specification

Appearance	Light brown coloured liquid
Assay	Min 98%
Density (d20°C/4°C)	1.209 - 1.214
Identity	Passes test

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2019

IMCO Class No.: 6.1

Packing Group: II

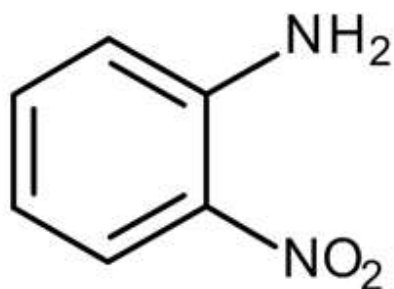
Hazardous Statement: H301-H311-H331-H373-H410

Precaution Statement: P261-P273-P280-P301 + P310-P311-P501

2-NITROANILINE 98% EXTRAPURE

ortho-Nitroaniline; 2-Nitroaniline; 2-Nitrobenzenamine

Product Code.	01847	Grade	
Purity	98%	CAS No.	88-74-4
Molecular Formula	C6H6N2O2	Molecular Weight	138.12
H.S.Code	2921.42250	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless	Melting point/ Freezing point [°C]	70 - 72 °C
Flash point [°C]	167°C	Solubility in water [% weight]	1.1 g/l (20 c)	Partition coefficient Log Pow octanol / water at 20°C	5

Specification

Appearance	Yellow to dark orange color powder or crystals
Assay	Min 98%
Melting range	68 - 71 deg C

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 1661

IMCO Class No.: 6.1

Packing Group: II

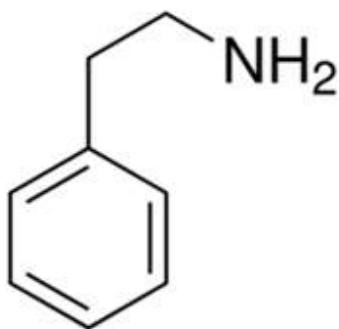
Hazardous Statement: H301-H311-H331-H373-H412

Precaution Statement: P261-P273-P280-P301 + P310-P311

2-PHENYLETHYLAMINE 99% EXTRAPURE

2-Phenylethylamine, Phenethylamine

Product Code.	01991	Grade	
Purity	99%	CAS No.	64-04-0
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.51900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	11.5 at 4.3 g/l at 20 °C
Melting point/ Freezing point [°C]	-60 °C	Flash point [°C]	81 °C	Boiling point [°C]	197 - 200 °C
Initial boiling point [°C]	197 °C	Final boiling point [°C]	200 °C	Vapour pressure [20°C]	0.4 hPa at 20 °C
Vapour density	4.18	Density [g/cm ³]	0.962	Partition coefficient Log Pow octanol / water at 20°C	-1.35
Viscosity at 40°C [mm ² /s]	2.40 mm ² /s at 23 °C	Explosion limits - upper [%]	5.50%	Explosion limits -lower [%]	1%

Packaging

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Specification

Appearance	Colorless to pale yellow liquid
Assay	Min 99%
Refractive index (20°C; 589 nm)	~1.534

Density (2 g/mL; at 20°C)	0.960 - 0.962
Water (by KF)	Max 0.2%
Boiling Point	199 - 202 deg C

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06

Signal Word: Danger

UN No.: 2735

IMCO Class No.: 8

Packing Group: II

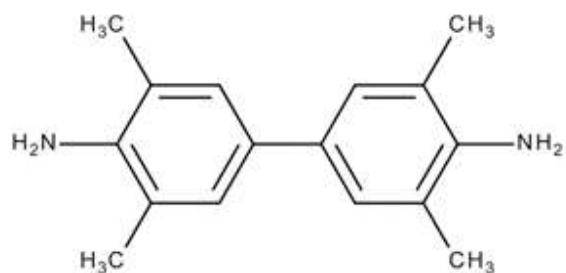
Hazardous Statement: H301-H314

Precaution Statement: P280-P301 + P310-P305 + P351 + P338-P310

3,3',5,5'-TETRAMETHYLBENZIDINE 99%

BM blue; Sure Blue TMB; TMB Blotting Plus; TMB substrate; TMB

Product Code.	02660	Grade	
Purity	99%	CAS No.	54827-17-7
Molecular Formula	C ₁₆ H ₂₀ N ₂	Molecular Weight	240.35
H.S.Code	2921.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	168 - 171 °C	Boiling point [°C]	168 - 169 °C	Initial boiling point [°C]	168°C
Final boiling point [°C]	169 °C	Solubility in water [% weight]	Insoluble in water		

Packaging

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Specification

Appearance	White to Yellow or Beige powder
Assay (by HClO ₄ titration)	Min 99%
Melting range	166 - 170°C
Insoluble matter in acetic acid	Passes test
Loss on drying (at 120°C)	Max 0.5%
Residue on ignition (as SO ₄)	Max 0.1%
Chloride (Cl)	Max 0.05%

Sulphate (SO ₄)	Max 0.02%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.001%
Nickel (Ni)	Max 0.001%
Lead (Pb)	Max 0.001%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

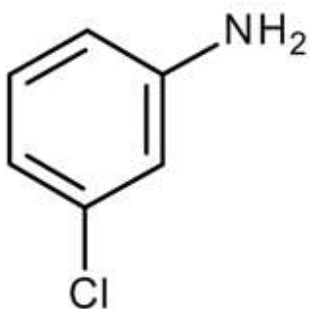
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

3-CHLOROANILINE 98% FOR SYNTHESIS

3-Chlorobenzenamine; m-Chloroaniline ; 3-Chloro Aniline

Product Code.	00751	Grade	
Purity	98%	CAS No.	108-42-9
Molecular Formula	C6H6ClN	Molecular Weight	127.57
H.S.Code	2921.42110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to light yellow	Odour	Characteristic odour
Melting point/ Freezing point [°C]	-10.4°C	Decomposition point [°C]	190°C	Auto-ignition temperature [°C]	500°C
Flash point [°C]	190°C	Boiling point [°C]	95 - 96 °C	Initial boiling point [°C]	95°C
Final boiling point [°C]	96 °C	Vapour pressure [20°C]	0.05 mm Hg @2°C	Vapour pressure mm/Hg	0.05 mm Hg @20C
Density [g/cm3]	1.206	Solubility in water [% weight]	Insoluble		

Packaging

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Specification

Appearance	Yellow coloured liquid
Assay	Min 98%
Density (d20°C/4°C)	1.215 - 1.216

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2019

IMCO Class No.: 6.1

Packing Group: II

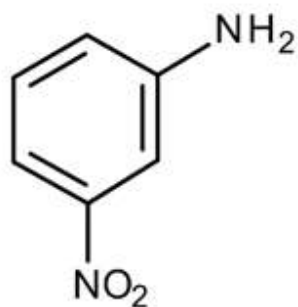
Hazardous Statement: H301-H311-H331-H373-H410

Precaution Statement: P261-P273-P280-P301 + P310-P311-P501

3-NITROANILINE 99% EXTRAPURE

meta-Nitroaniline; m-nitroanilin

Product Code.	01846	Grade	
Purity	98%	CAS No.	99-09-2
Molecular Formula	C6H6N2O2	Molecular Weight	138.12
H.S.Code	2921.42250	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light yellow	Melting point/ Freezing point [°C]	111 - 114 °C
Flash point [°C]	196°C	Boiling point [°C]	306°C	Density [g/cm3]	0.9
Partition coefficient Log Pow octanol / water at 20°C	5				

Packaging

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Specification

Appearance	Yellow, Yellow-Orange or Gold Powder, Crystals or Fibers and/or Chunk
Assay	Min 98%
Melting range	109 - 112 deg C

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 1661

IMCO Class No.: 6.1

Packing Group: II

Hazardous Statement: H301-H311-H331-H373-H412

Precaution Statement: P261-P273-P280-P301 + P310-P311

4-AMINO ANTIPYRINE 99% AR

4-Aminophenazone ;(Ampyrone)

Product Code.	00150	Grade	AR
Purity	Min. 99.0%	CAS No.	83-07-8
Molecular Formula	C11H13N3O	Molecular Weight	203.24
H.S.Code	29331100.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Brownish Yellow	Odour	Odourless
Melting point/ Freezing point [°C]	105 - 110 °C	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Description	Brownish yellow powder
Assay (HClO4 titration)	Min. 99%
Melting range	107 - 110 °C
Sensitivity test (for phenol)	Passes test

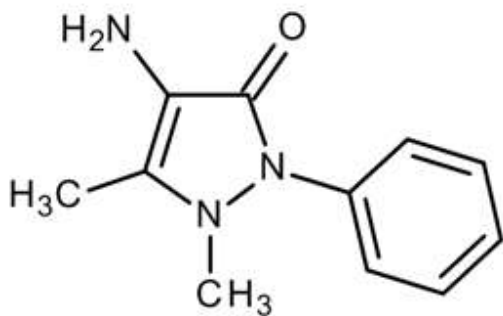
Safety Information and Hazard Symbols

Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

4-AMINO ANTIPYRINE 99% EXTRAPURE

4 Aminophenazone; 4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one; Ampyrone

Product Code.	00149	Grade	
Purity	Min. 98%	CAS No.	83-07-8
Molecular Formula	C ₁₁ H ₁₃ N ₃ O	Molecular Weight	203.25
H.S.Code	2933.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Brownish yellow	Odour	Odorless
Melting point/ Freezing point [°C]	105 - 110 °C	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	Brownish yellow powder
Assay (by HClO ₄ titration)	Min 99%
Sulphated ash	Max 0.1%
Loss on drying	Max 0.5%
Melting point	107 - 110 deg C

Sensitivity test for phenol

Passes test

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

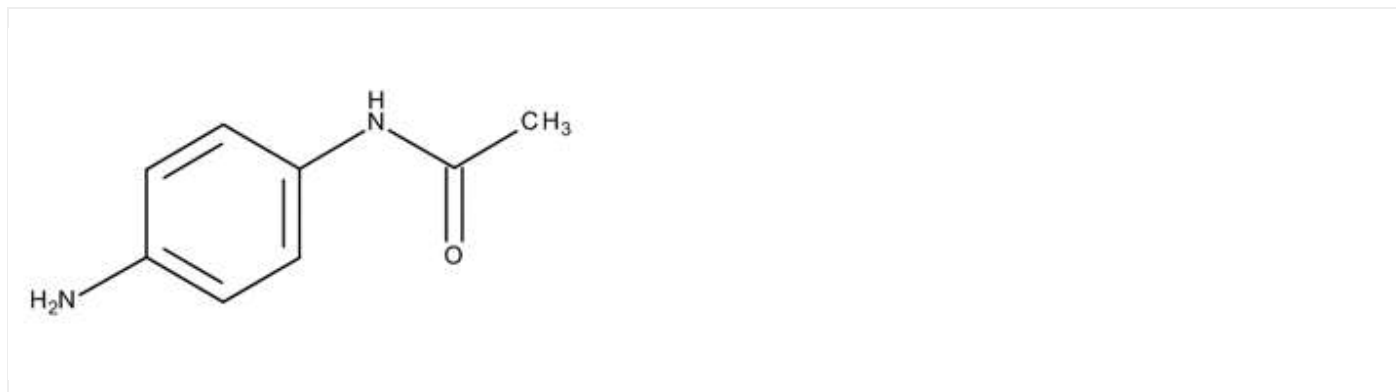
Hazardous Statement: H302-H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

4-AMINOACETANILIDE 99% FOR SYNTHESIS

N-Acetyl-p-phenylenediamine; N-(4-Aminophenyl)acetamide

Product Code.	00142	Grade	
Purity	Min. 99%	CAS No.	122-80-5
Molecular Formula	C8H10N2O	Molecular Weight	150.18
H.S.Code	2924.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Brown crystalline	Melting point/ Freezing point [°C]	162 - 164 °C
Flash point [°C]	150 °C	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	Brown crystalline powder
Assay (by HClO4 titration)	Min 99%
Melting point	163 - 166 deg C

Safety Information and Hazard Symbols



Symbol: GHS08

Signal Word: Danger

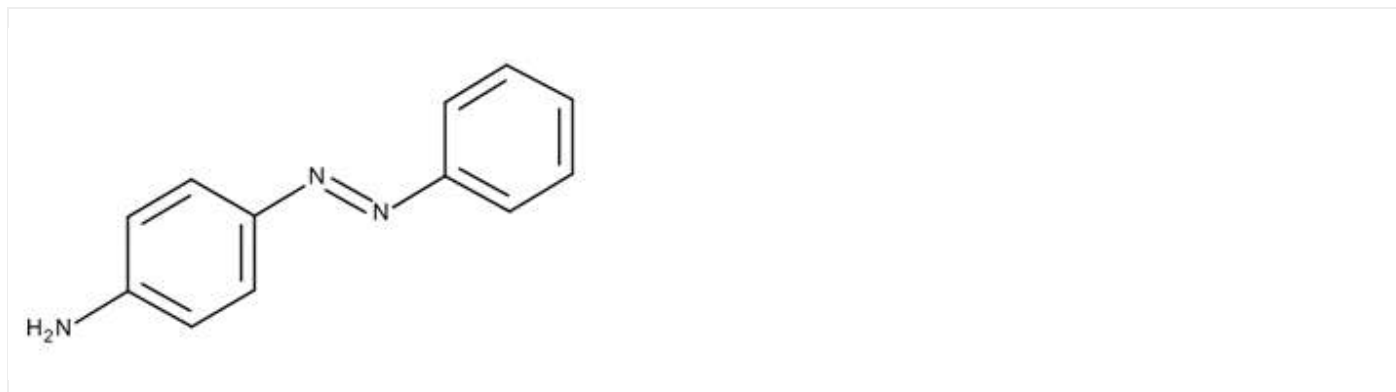
Hazardous Statement: H317-H319-H334

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

4-AMINOAZOBENZENE 98% FOR SYNTHESIS

4-Phenylazoaniline

Product Code.	00151	Grade	
Purity	Min. 98%	CAS No.	60-09-3
Molecular Formula	C ₁₂ H ₁₂ N ₃	Molecular Weight	197.24
H.S.Code	2927.00100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Orange powder	Melting point/ Freezing point [°C]	123 - 126 °C
Boiling point [°C]	> 360 °C	Solubility in water [% weight]	Slightly soluble in water		

Packaging



Specification

Appearance	Orange colored powder
Assay (by HClO ₄ titration)	Min 98.0%
Melting range	121.0-124.0 degC

Safety Information and Hazard Symbols



Symbol: GHS08, GHS09

Signal Word: Danger

UN No.: 3077

IMCO Class No.: 9

Packing Group: III

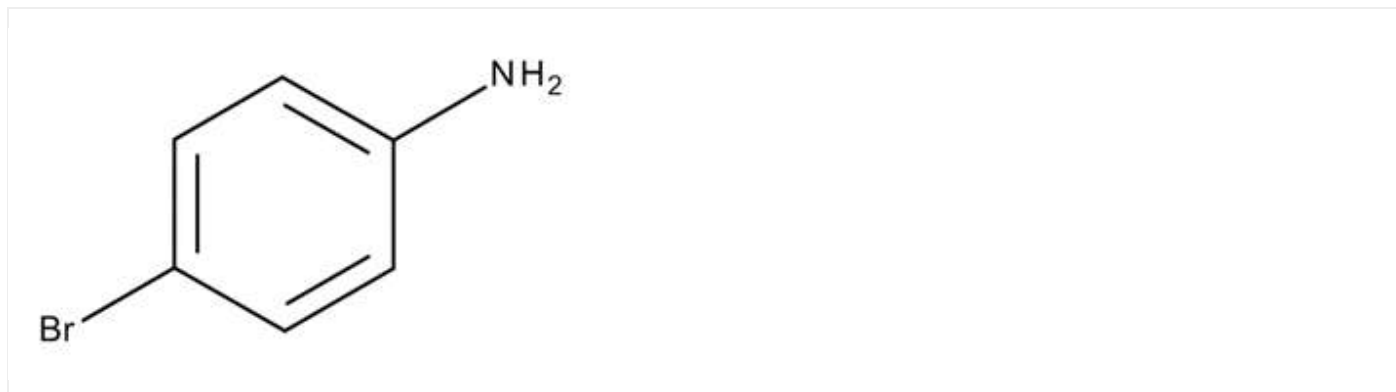
Hazardous Statement: H350-H410

Precaution Statement: P201-P273-P308 + P313-P501

4-BROMO ANILINE 98% FOR SYNTHESIS

4-Bromoaniline

Product Code.	00487	Grade	For Synthesis
Purity	98%	CAS No.	106-40-1
Molecular Formula	C6H6BrN	Molecular Weight	172.03
H.S.Code	2921.41100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Sweetish
Melting point/ Freezing point [°C]	66°C	Density [g/cm ³]	1.497	Solubility in water [% weight]	Insoluble in cold water

Packaging



Specification

Appearance	White to gray to brown Powder, Crystals, Crystalline Powder and/or Chunks
Assay (ex NH ₂)	Min 98.0%
Melting point	61 - 65 °C
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: II

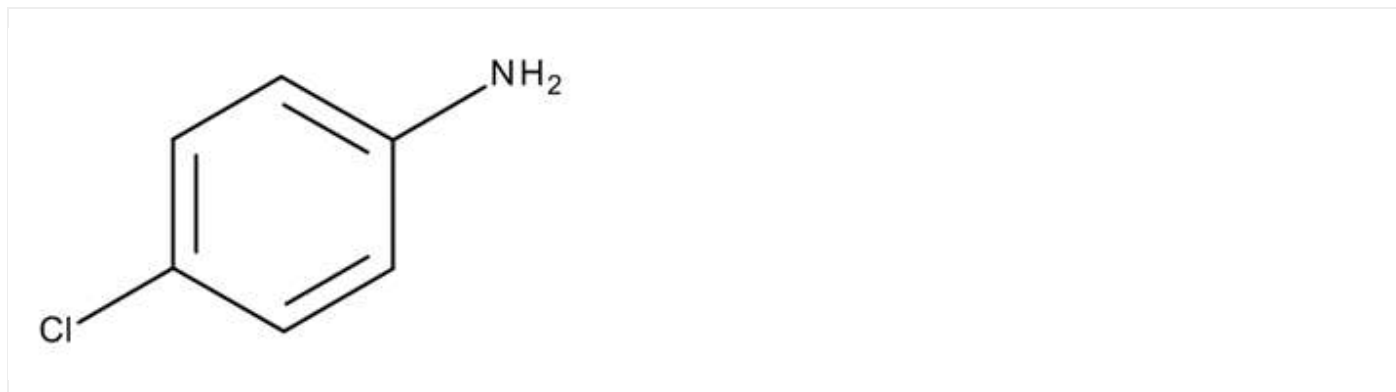
Hazardous Statement: H302-H311-H315-H319-H335

Precaution Statement: P261-P280-P305 + P351 + P338-P312

4-CHLOROANILINE 98% FOR SYNTHESIS

4-Chlorobenzenamine; p-Chloroaniline ;4-Chloro Aniline

Product Code.	00753	Grade	For Synthesis
Purity	98%	CAS No.	106-47-8
Molecular Formula	C6H6ClN	Molecular Weight	127.57
H.S.Code	2921.42110	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Sweetish
pH value	6.9 at 1.00000 g/l at 20 °C	Melting point/ Freezing point [°C]	72.5°C	Flash point [°C]	>104.44°C
Boiling point [°C]	232°C	Density [g/cm ³]	1.14	Solubility in water [% weight]	Partially soluble in cold water
Partition coefficient Log Pow octanol / water at 20°C	2.12				

Packaging

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Specification

Appearance	***Off white to beige or light brown to purple flakes/crystals
Assay	Min 98.0%
Melting point	69 - 72 °C
***May darken on storage	

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2018

IMCO Class No.: 6.1

Packing Group: II

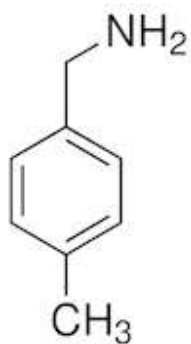
Hazardous Statement: H301-H311-H317-H331-H350-H410

Precaution Statement: P201-P261-P273-P280-P301 + P310-P311

4-METHYLBENZYLAMINE 98% FOR SYNTHESIS

p-Xylylamine

Product Code.	01713	Grade	
Purity	97%	CAS No.	104-84-7
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.49900	Shelf Life	60 Months



Specification

Appearance	Clear colorless to pale yellow liquid
Assay (GC area %)	Min 98.0%
Density (at 20°C)	About 0.952 g/mL
Refractive index (20°C; 589 nm)	1.533-1.536

Safety Information and Hazard Symbols

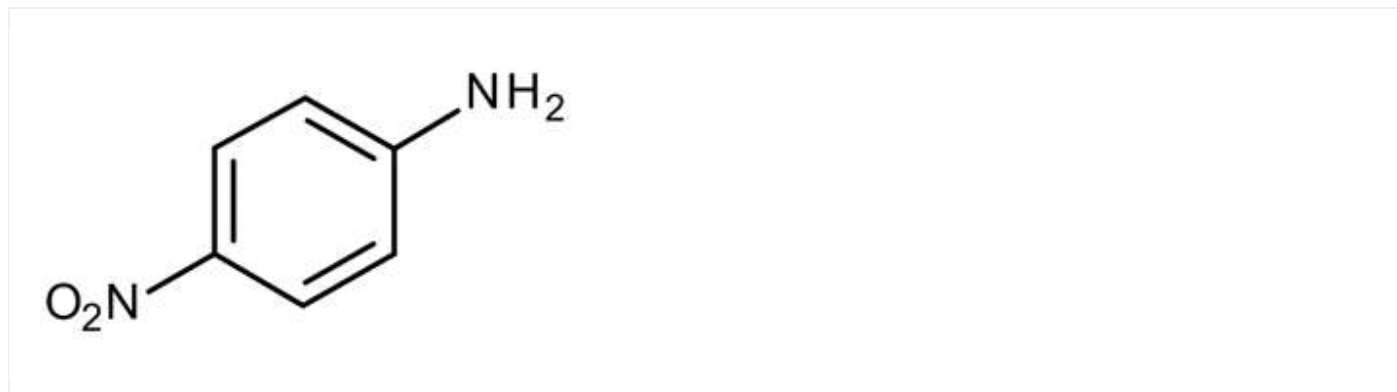


Symbol: GHS05
Signal Word: Danger
UN No.: 2735
IMCO Class No.: 8
Packing Group: III
Hazardous Statement: H314
Precaution Statement: P280-P305 + P351 + P338-P310

4-NITROANILINE 98.5% EXTRAPURE

1-Amino-4-nitrobenzene; p-Nitrophenylamine; 4-Nitroaniline

Product Code.	01848	Grade	Extrapure
Purity	98.5%	CAS No.	100-01-6
Molecular Formula	C6H6N2O2	Molecular Weight	138.12
H.S.Code	2921.42260	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow	Odour	Ammonia odor
pH value	7	Melting point/ Freezing point [°C]	146 - 149 °C	Auto-ignition temperature [°C]	180 °C
Flash point [°C]	213°C	Boiling point [°C]	260 °C	Vapour density	4.77
Density [g/cm ³]	1.44	Solubility in water [% weight]	Slightly soluble	Partition coefficient Log Pow octanol / water at 20°C	1.39

Packaging

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Specification

Appearance	Yellow to brown crystalline powder or crystal or flakes
Assay	Min 98.5%
Melting point	146 - 149 °C
Sulphated ash	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 1661

IMCO Class No.: 6.1

Packing Group: II

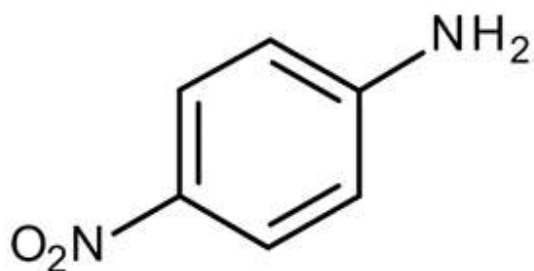
Hazardous Statement: H301-H311-H331-H373-H412

Precaution Statement: P261-P273-P280-P301 + P310-P311

4-NITROANILINE 99% AR

For determination of Phenol. 1-Amino-4-nitrobenzene; p-Nitrophenylamine; 4-Nitro aniline ; d.1.44

Product Code.	01849	Grade	
Purity	Min. 99%	CAS No.	100-01-6
Molecular Formula	C6H6N2O2	Molecular Weight	138.12
H.S.Code	2921.42260	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow	Odour	Ammonia odor
pH value	7	Melting point/ Freezing point [°C]	146 - 149 °C	Auto-ignition temperature [°C]	180 °C
Flash point [°C]	213°C	Boiling point [°C]	260 °C	Vapour density	4.77
Density [g/cm ³]	1.44	Solubility in water [% weight]	Slightly soluble	Partition coefficient Log Pow octanol / water at 20°C	1.39

Packaging



Specification

Appearance	Pale brown colored crystals
Assay	Min 99%

Melting point	147 - 149 deg C
Ash content	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 1661

IMCO Class No.: 6.1

Packing Group: II

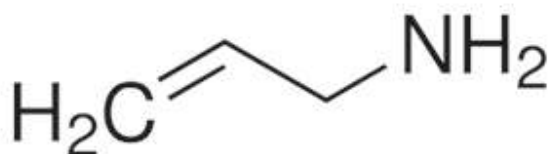
Hazardous Statement: H301-H311-H331-H373-H412

Precaution Statement: P261-P273-P280-P301 + P310-P311

ALLYLAMINE (FOR SYNTHESIS)

2-Propen-1-amine, 3-Amino-1-propene

Product Code.	00108	Grade	
Purity	Min. 99%	CAS No.	107-11-9
Molecular Formula	C3H7N	Molecular Weight	57.10
H.S.Code	0.00000	Shelf Life	60 Months



Packaging



Specification

Appearance	Clear colourless liquid
Assay (GC area %)	Min 99.0%
Identity (IR)	Passes test
Density (at 25°C)	~0.761 g/mL

Safety Information and Hazard Symbols



Symbol: GHS02, GHS06, GHS09

Signal Word: Danger

UN No.: 2334

IMCO Class No.: 6.1(3)

Packing Group: I

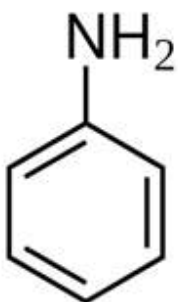
Hazardous Statement: H225-H301-H310-H331-H411

Precaution Statement: P210-P261-P273-P280-P301 + P310-P302 + P350

ANILINE 99.5% AR

Aminobenzene; Aminophen; Aniline oil; Benzenamine; Benzene,amino; Phenylamine

Product Code.	00266	Grade	AR
Purity	99.5%	CAS No.	62-53-3
Molecular Formula	C6H5NH2	Molecular Weight	93.13
H.S.Code	2921.41100	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless, oily liquid	Odour	Weakly amine
pH value	8.1	Melting point/ Freezing point [°C]	-6 °C	Auto-ignition temperature [°C]	615°C
Flammability (solid, gas)	Flammable	Flash point [°C]	70 °C	Boiling point [°C]	184 °C
Evaporation rate	<1	Vapour pressure [20°C]	0.49 hPa at 20 °C	Vapour density	3.22
Density [g/cm ³]	1.022	Solubility in water [% weight]	3.5 gm in 100 gm water @ 20C	Partition coefficient Log Pow octanol / water at 20°C	0.91
Explosion limits - upper [%]	23%	Explosion limits -lower [%]	1.30%		

Packaging

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Specification

Appearance	Clear yellow to reddish brown colored liquid
Purity (by GC)	Min 99.5%
Weight/ mL at 20°C	1.021-1.023 g/ml

Water (H ₂ O)	Max 0.2%
Non volatile matter	Max 0.005%
Hydrocarbons	Passes test
Nitrobenzene (C ₆ H ₅ NO ₂)	Max 0.003%
Copper (Cu)	Max 0.00005%
Iron (Fe)	Max 0.0001%
Lead (Pb)	Max 0.0001%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1547

IMCO Class No.: 6.1

Packing Group: II

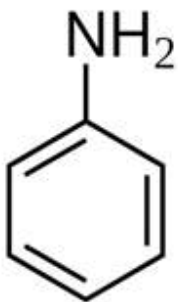
Hazardous Statement: H301-H311-H317-H318-H331-H341-H351-H372-H400

Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

ANILINE 99% EXTRAPURE

Aminobenzene; Aminophen; Aniline oil; Benzenamine; Benzene,amino; Phenylamine

Product Code.	00265	Grade	
Purity	99%	CAS No.	62-53-3
Molecular Formula	C6H5NH2	Molecular Weight	93.13
H.S.Code	2921.41100	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless, oily liquid	Odour	Weakly amine
pH value	8.1	Melting point/ Freezing point [°C]	-6 °C	Auto-ignition temperature [°C]	615°C
Flammability (solid, gas)	Flammable	Flash point [°C]	70 °C	Boiling point [°C]	184 °C
Evaporation rate	<1	Vapour pressure [20°C]	0.49 hPa at 20 °C	Vapour density	3.22
Density [g/cm ³]	1.022	Solubility in water [% weight]	3.5 gm in 100 gm water @ 20C	Partition coefficient Log Pow octanol / water at 20°C	0.91
Explosion limits - upper [%]	23%	Explosion limits -lower [%]	1.30%		

Packaging

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Specification

Appearance	Clear yellow to reddish brown color liquid
Assay	Min 99.0%
Weight/ mL at 20°C	1.020-1.025 g

Ash content	Max 0.02%
Water (H ₂ O)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1547

IMCO Class No.: 6.1

Packing Group: II

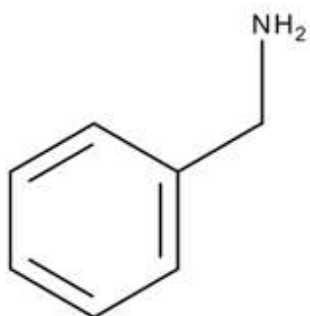
Hazardous Statement: H301-H311-H317-H318-H331-H341-H351-H372-H400

Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

BENZYLAMINE 99% FOR SYNTHESIS

α -Aminotoluene

Product Code.	00395	Grade	For Synthesis
Purity	99%	CAS No.	100-46-9
Molecular Formula	C7H9N	Molecular Weight	107.16
H.S.Code	2921.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Amine like
pH value	11.4 at 100 g/l at 20 °C	Melting point/ Freezing point [°C]	10 °C	Auto-ignition temperature [°C]	405 °C
Flash point [°C]	65 °C	Boiling point [°C]	184 - 185 °C	Initial boiling point [°C]	184 °C
Final boiling point [°C]	185 °C	Vapour pressure [20°C]	0.1 kPa (@ 20°C)	Vapour density	3.7
Density [g/cm ³]	0.981	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	1.09
Explosion limits - upper [%]	8.20%	Explosion limits -lower [%]	0.70%		

Packaging



Specification

Appearance	Clear colorless to pale yellow liquid
Assay	Min 99%
Density (d20°C/4°C)	0.982 - 0.983 g/ml
Water (H2O)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2735

IMCO Class No.: 8

Packing Group: II

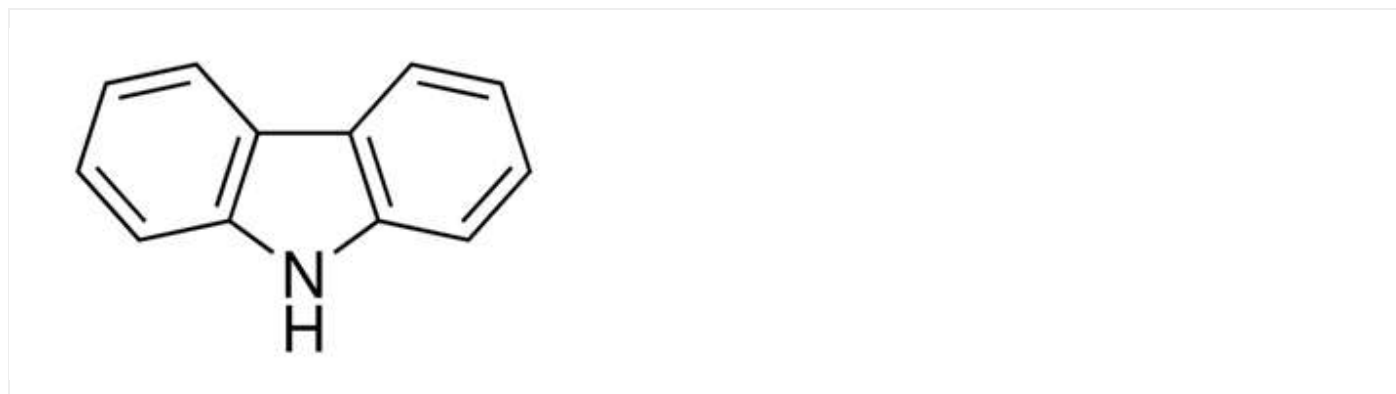
Hazardous Statement: H302-H312-H314

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

CARBAZOLE 95% FOR SYNTHESIS

9-Azafluorene; 9H-Carbazole; Dibenzo(b,d)pyrrole; Dibenzopyrrole; iphenyleneimine;Diphenylenimide; Diphenylenimine

Product Code.	00678	Grade	
Purity	95%	CAS No.	86-74-8
Molecular Formula	C12H9N	Molecular Weight	167.21
H.S.Code	2933.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White to cream to yellow to tan	Melting point/ Freezing point [°C]	243 - 246 °C
Flash point [°C]	220°C	Boiling point [°C]	355 °C	Solubility in water [% weight]	Insoluble in water
Partition coefficient Log Pow octanol / water at 20°C	3.72				

Packaging



Specification

Appearance	White to cream to yellow to tan powder/crystal/crystalline powder
Assay	Min 95%

Melting range

240 - 243 deg C

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

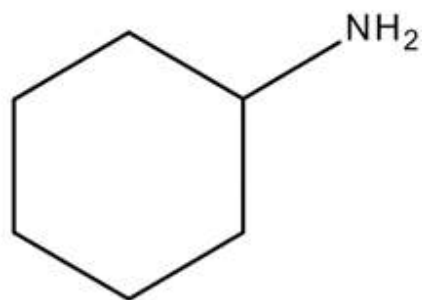
Hazardous Statement: H301-H315-H319-H335-H351-H400

Precaution Statement: P261-P273-P281-P301 + P310-P305 + P351 + P338

CYCLOHEXYLAMINE 99% FOR SYNTHESIS

Aminocyclohexane, Cyclohexanamine

Product Code.	00915	Grade	
Purity	99%	CAS No.	108-91-8
Molecular Formula	C6H13N	Molecular Weight	99.18
H.S.Code	2921.30100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Amine like
Melting point/ Freezing point [°C]	-17 °C	Flash point [°C]	27 °C	Boiling point [°C]	134 °C
Vapour pressure [20°C]	10 mm Hg @ 20°C	Vapour pressure mm/Hg	10 mm Hg @ 200C	Vapour density	3.42
Density [g/cm3]	0.8647	Solubility in water [% weight]	Soluble	Partition coefficient Log Pow octanol / water at 20°C	1.4
Explosion limits - upper [%]	9.40%	Explosion limits -lower [%]	1.60%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99%
Density (d20°C/4°C)	0.866 - 0.867
Water (H2O)	Max 0.3%

Refractive index (20°C; 589 nm)

1.450

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 2357

IMCO Class No.: 8,3

Packing Group: II

Hazardous Statement: H226-H302-H312-H314-H361f

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

CYCLOHEXYLAMINE, 99%

Product Code.	0915A	Grade	
Purity	99%	CAS No.	108-91-8
Molecular Formula	C6H13N	Molecular Weight	99.18
H.S.Code	2921.30100	Shelf Life	60 Months


Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Amine like
Melting point/ Freezing point [°C]	-17 °C	Flash point [°C]	27 °C	Boiling point [°C]	134 °C
Vapour pressure [20°C]	10 mm Hg @ 20°C	Vapour pressure mm/Hg	10 mm Hg @ 200C	Vapour density	3.42
Density [g/cm3]	0.8647	Solubility in water [% weight]	Soluble	Partition coefficient Log Pow octanol / water at 20°C	1.4
Explosion limits - upper [%]	9.40%	Explosion limits -lower [%]	1.60%		

Specification

Appearance (Color)	Clear colorless to light yellow
Appearance (Form)	Liquid
Infrared spectrum	Conforms
GC	>=98.5 %
Water	=<0.3 % (K.F.)
Refractive index	1.4580 to 1.4600 (20°C, 589 nm)

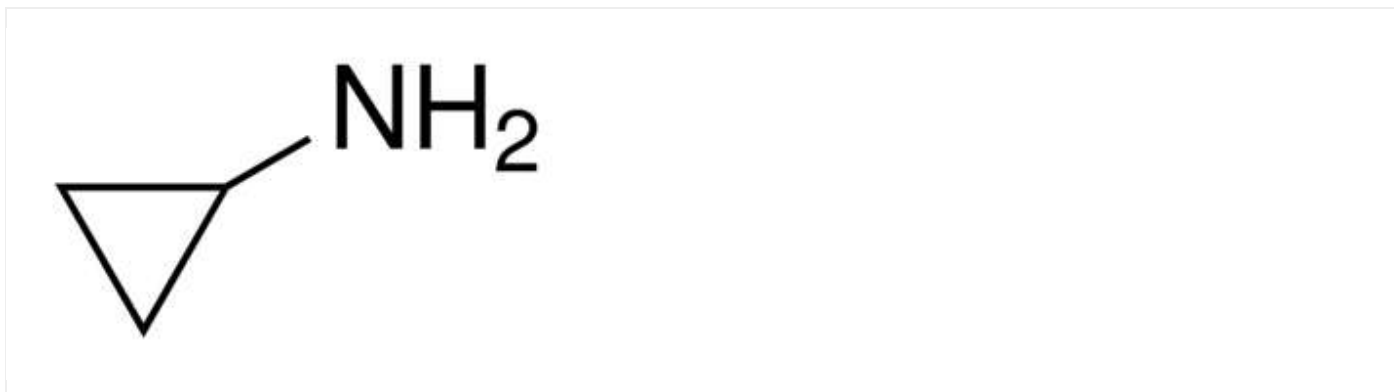
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07, GHS08 Signal Word: Danger UN No.: 2357 IMCO Class No.: 8,3 Packing Group: II Hazardous Statement: H226-H302-H312-H314-H361f Precaution Statement: P280-P305 + P351 + P338-P310

CYCLOPROPYLAMINE 98% FOR SYNTHESIS

Aminocyclopropane


Product Code.	00921	Grade	For Synthesis
Purity	98%	CAS No.	765-30-0
Molecular Formula	C3H5NH2	Molecular Weight	57.09
H.S.Code	2921.30900	Shelf Life	60 Months



Specification

Appearance	Colorless to slight pale yellowish liquid
Assay	Min 98.0%
Density (at 20°C)	0.813 - 0.816 g/ml
Water (H2O)	Max 1%

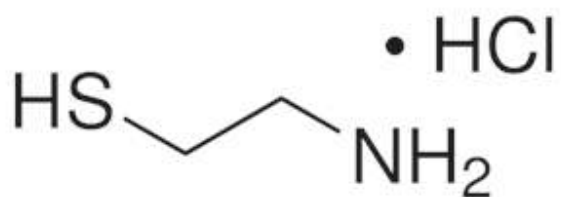
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 2733 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H302-H314 Precaution Statement: P210-P280-P305 + P351 + P338-P310

CYSTEAMINE HYDROCHLORIDE 98% FOR SYNTHESIS

Store at 2-8°C Cysteaminium chloride; β -Mercaptoethylamine hydrochloride; 2-Mercaptoethylamine hydrochloride; 2-Aminoethanethiol hydrochloride; Decarboxycysteine hydrochloride; Thioethanolamine hydrochloride

Product Code.	00922	Grade	
Purity	98%	CAS No.	156-57-0
Molecular Formula	C2H8CINS	Molecular Weight	113.61
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	White Powder or crystals
Assay (titration with Iodine)	Min 98.0%
Solubility (50 mg/mL in water)	Clear, colorless to very faint yellow solution
Identity	Passes test
Melting range	67-70°C

Safety Information and Hazard Symbols



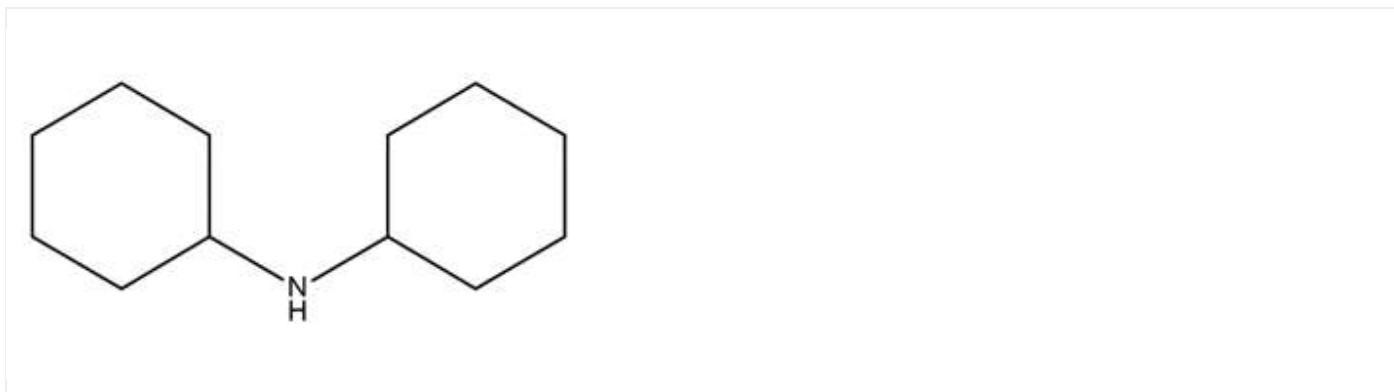
Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H302

DICYCLOHEXYLAMINE 99% FOR SYNTHESIS

Product Code.	00978	Grade	
Purity	99%	CAS No.	101-83-7
Molecular Formula	C ₁₂ H ₂₃ N	Molecular Weight	181.32
H.S.Code	2921.30900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fishy/amine odor
pH value	11 at 1 g/l at 20 °C	Melting point/ Freezing point [°C]	2 °C	Flash point [°C]	96 °C
Boiling point [°C]	117 - 120 °C	Initial boiling point [°C]	117°C	Final boiling point [°C]	120 °C
Vapour density	6.27	Density [g/cm ³]	0.91	Solubility in water [% weight]	Sparingly soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.4				

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99%
Density (d _{20°C/4°C})	0.911 - 0.914

Water (H ₂ O)	Max 0.3%
Refractive index (20°C; 589 nm)	1.4842

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS09

Signal Word: Danger

UN No.: 2565

IMCO Class No.: 8

Packing Group: III

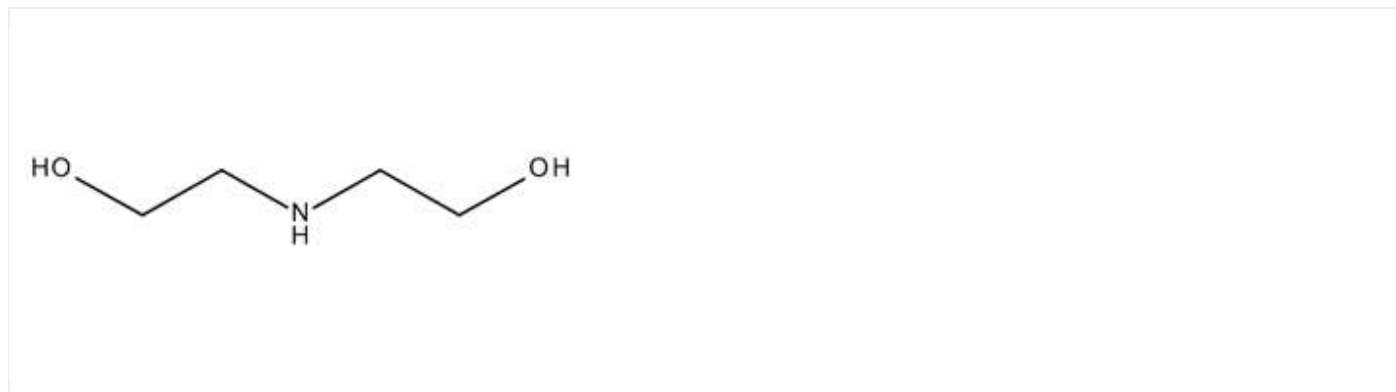
Hazardous Statement: H302-H314-H410

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

DIETHANOLAMINE 98% FOR SYNTHESIS

2,2'-Iminodiethanol; Bis(2-hydroxyethyl)amine; DEA

Product Code.	00980	Grade	For Synthesis
Purity	98%	CAS No.	111-42-2
Molecular Formula	[CH ₂ (OH).CH ₂] ₂ NH	Molecular Weight	105.14
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Ammonia odor
pH value	11 - 12 at 105 g/l at 25 °C	Melting point/ Freezing point [°C]	28 °C	Auto-ignition temperature [°C]	365 °C
Flash point [°C]	138 °C	Boiling point [°C]	217 °C	Vapour pressure [20°C]	< 0.01 mm Hg @ 20°C
Vapour pressure mm/Hg	< 0.01 mm Hg @ 200C	Vapour density	3.63	Density [g/cm ³]	1.097 g/mL at 25 °C
Solubility in water [% weight]	105 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-2.18	Explosion limits - upper [%]	10.60%
Explosion limits -lower [%]	1.60%				

Packaging

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Specification

Appearance	Clear viscous liquid
Assay (acidimetric)	Min 98%

Weight/ mL at 20°C	1.096 - 1.100 g/ml
Melting point	25 - 28 °C
Water (by KF)	Max 0.3%
Colour	Max 20 APHA

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08

Signal Word: Danger

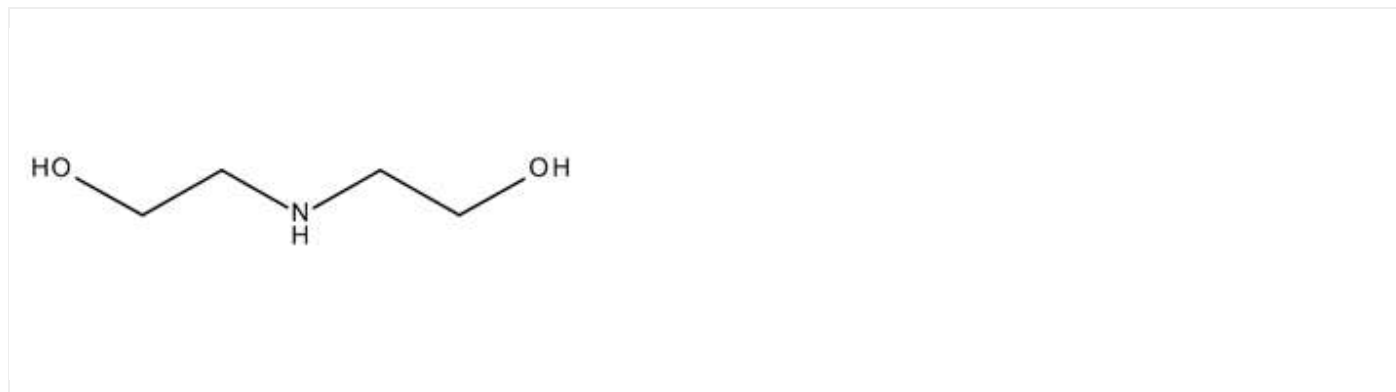
Hazardous Statement: H302-H315-H318-H373

Precaution Statement: P280-P305 + P351 + P338

DIETHANOLAMINE 99% AR

2,2'-Iminodiethanol, Bis(2-hydroxyethyl)amine, DEA

Product Code.	00981	Grade	AR
Purity	99%	CAS No.	111-42-2
Molecular Formula	[CH ₂ (OH).CH ₂] ₂ NH	Molecular Weight	105.14
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Ammonia odor
pH value	11 - 12 at 105 g/l at 25 °C	Melting point/ Freezing point [°C]	28 °C	Auto-ignition temperature [°C]	365 °C
Flash point [°C]	138 °C	Boiling point [°C]	217 °C	Vapour pressure [20°C]	< 0.01 mm Hg @ 20°C
Vapour pressure mm/Hg	< 0.01 mm Hg @ 200C	Vapour density	3.63	Density [g/cm ³]	1.097 g/mL at 25 °C
Solubility in water [% weight]	105 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-2.18	Explosion limits - upper [%]	10.60%
Explosion limits -lower [%]	1.60%				

Packaging

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Specification

Appearance	Clear viscous liquid
Assay	Min 99.0%

Apparent equivalent weight	104 - 106
Freezing point	27 - 28°C
APHA colour	Max 15
Residue on ignition (as SO ₄)	Max 0.005%
Ethanolamine (GC)	Max 0.3%
Triethanolamine (GC)	Max 0.3%
Chloride (Cl)	Max 0.001%
Water (H ₂ O)	Max 0.15%
Heavy metal (as Pb)	Max 0.0001%
Iron (Fe)	Max 0.0001%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08

Signal Word: Danger

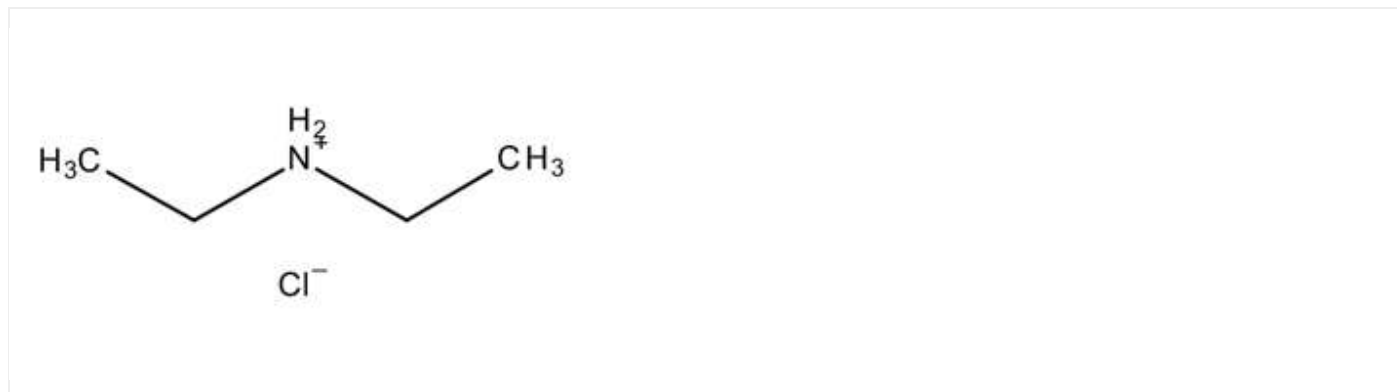
Hazardous Statement: H302-H315-H318-H373

Precaution Statement: P280-P305 + P351 + P338

DIETHYL AMINE HYDROCHLORIDE 98% FOR SYNTHESIS

Diethyl Ammonium Chloride

Product Code.	00984	Grade	
Purity	98%	CAS No.	660-68-4
Molecular Formula	C ₄ H ₁₂ ClN	Molecular Weight	109.50
H.S.Code	2921.19900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	226 - 229 °C
Density [g/cm ³]	1.047 g/mL at 25 °C	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	A white crystalline Powder
Assay (argentometric)	Min 98%
Identity (IR)	Passes test

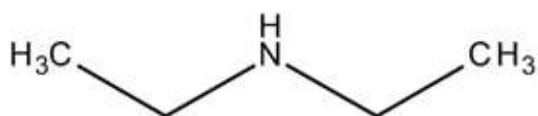
Safety Information and Hazard Symbols


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

DIETHYLAMINE 99.5% AR

N,N-Diethylamine; N-Ethylethanamine

Product Code.	00983	Grade	
Purity	99.5%	CAS No.	109-89-7
Molecular Formula	(C ₂ H ₅) ₂ NH	Molecular Weight	73.14
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fishy ammonical
pH value	Strong alkaline	Melting point/ Freezing point [°C]	-50°C	Flammability (solid, gas)	Flammable
Flash point [°C]	(-28 °C)	Boiling point [°C]	55- 58°C	Evaporation rate	16.9
Vapour pressure [20°C]	195 mm Hg @ 20°C	Vapour density	2.5	Density [g/cm ³]	0.71
Solubility in water [% weight]	Miscible in water	Explosion limits - upper [%]	10.10%	Explosion limits -lower [%]	1.80%

Packaging

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Specification

Appearance	A clear colorless liquid with ammonical odor
Assay	Min 99.5%
Residue on evaporation	Max 0.001%
Iron (Fe)	Max 0.00005%

Lead (Pb)	Max 0.00001%
Cobalt (Co)	Max 0.00001%
Nickel (Ni)	Max 0.00001%
Copper (Cu)	Max 0.00001%
Cadmium (Cd)	Max 0.00001%
Zinc (Zn)	Max 0.0001%
Chromium (Cr)	Max 0.00001%
Manganese (Mn)	Max 0.00001%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 1154

IMCO Class No.: 3,8

Packing Group: II

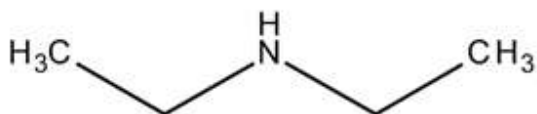
Hazardous Statement: H225-H302-H312-H314-H332

Precaution Statement: P210-P280-P305 + P351 + P338-P310

DIETHYLAMINE 99% FOR SYNTHESIS

N,N-Diethylamine; N-Ethylethanamine

Product Code.	00982	Grade	
Purity	99%	CAS No.	109-89-7
Molecular Formula	(C ₂ H ₅) ₂ NH	Molecular Weight	73.14
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fishy ammonical
pH value	Strong alkaline	Melting point/ Freezing point [°C]	-50°C	Flammability (solid, gas)	Flammable
Flash point [°C]	(-28 °C)	Boiling point [°C]	55- 58°C	Evaporation rate	16.9
Vapour pressure [20°C]	195 mm Hg @ 20°C	Vapour density	2.5	Density [g/cm ³]	0.71
Solubility in water [% weight]	Miscible in water	Explosion limits - upper [%]	10.10%	Explosion limits -lower [%]	1.80%

Packaging

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Specification

Appearance	A clear colorless liquid with ammonical odor
Assay (acidimetric)	Min 99%
Weight/ mL at 20°C	0.702 - 0.704 g
Refractive index (20°C; 589 nm)	1.3845 - 1.3860

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 1154

IMCO Class No.: 3,8

Packing Group: II

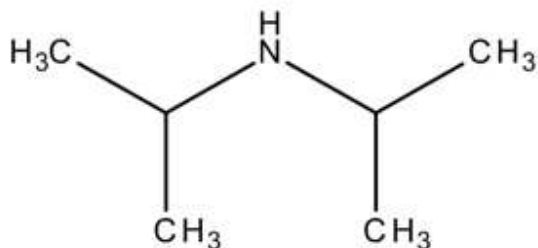
Hazardous Statement: H225-H302-H312-H314-H332

Precaution Statement: P210-P280-P305 + P351 + P338-P310

DIISOPROPYLAMINE 99% FOR SYNTHESIS

DIPA

Product Code.	01014	Grade	
Purity	99%	CAS No.	108-18-9
Molecular Formula	C6H15N	Molecular Weight	101.10
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Amine-like odor
Melting point/ Freezing point [°C]	-61 °C	Auto-ignition temperature [°C]	316°C	Flammability (solid, gas)	Flammable
Flash point [°C]	-7°C	Boiling point [°C]	84 °C	Vapour pressure [20°C]	67 hPa at 20 °C
Vapour density	3.49	Density [g/cm ³]	0.722	Solubility in water [% weight]	Soluble in water
Explosion limits - upper [%]	8.50%	Explosion limits -lower [%]	1.10%		

Packaging

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Specification

Appearance	A clear, colourless liquid
Assay	Min 99%
Water (H ₂ O)	Max 0.3%

Density (d_{20°C/4°C})

0.715 - 0.717

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 1158

IMCO Class No.: 3,8

Packing Group: II

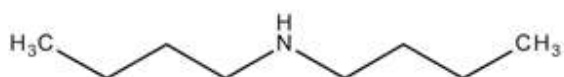
Hazardous Statement: H225-H302-H314-H332

Precaution Statement: P210-P280-P305 + P351 + P338-P310

DI-N-BUTYLAMINE 99% FOR SYNTHESIS

Dibutylamine; N,N-Dibutylamine; N-Butyl-1-butanamine

Product Code.	00957	Grade	For Synthesis
Purity	99%	CAS No.	111-92-2
Molecular Formula	C ₈ H ₁₉ N	Molecular Weight	129.25
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Amine like
pH value	11.1 at 1 g/l at 20 °C	Melting point/ Freezing point [°C]	-62 °C	Auto-ignition temperature [°C]	260 °C
Flash point [°C]	40 °C	Boiling point [°C]	159 °C	Vapour pressure [20°C]	2.5 hPa at 20 °C
Vapour pressure mm/Hg	1.9 mmHg at 20 °C	Vapour density	4.5	Density [g/cm ³]	0.76
Solubility in water [% weight]	4.05 g/l (25°C)	Partition coefficient Log Pow octanol / water at 20°C	2.06	Explosion limits - upper [%]	6.80%
Explosion limits -lower [%]	0.60%				

Packaging

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Specification

Appearance	Colorless liquid
Assay	Min 99%

Density (d _{20°C/4°C})	0.758 - 0.760 g/ml
Water (H ₂ O)	Max 0.3%
Refractive index (20°C; 589 nm)	1.416 - 1.418

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 2248

IMCO Class No.: 8,3

Packing Group: II

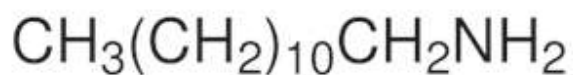
Hazardous Statement: H225-H302-H312-H314-H332

Precaution Statement: P210-P280-P305 + P351 + P338-P310

DODECYLAMINE 99% FOR SYNTHESIS

Laurylamine; 1-Aminododecan

Product Code.	01091	Grade	
Purity	98%	CAS No.	124-22-1
Molecular Formula	C12H27N	Molecular Weight	185.35
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White	Odour	Ammonical
Melting point/ Freezing point [°C]	28-32	Boiling point [°C]	247-249	Vapour pressure mm/Hg	64 mm Hg at 170°C
Relative density, liquid (water=1)	0.8000	Solubility in water [% weight]	78mg/l (25°C)		

Packaging

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Specification

Appearance	White crystals which may liquify above 25 °C to Colorless liquid
Assay (GC area %)	Min 99.0%
Melting range	25-30°C
Density (at 25°C)	0.806 g/mL

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS09

Signal Word: Danger

UN No.: 3259

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H302-H314-H410

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

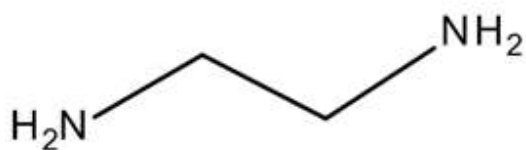
Risk Statement: 22-34-50/53

Safety Statement: 26-36/37/39-45-60-61

ETHYLENEDIAMINE 98% FOR SYNTHESIS

Confirms BP specification 1,2-Diaminoethane

Product Code.	01160	Grade	
Purity	98%	CAS No.	107-15-3
Molecular Formula	C2H8N2	Molecular Weight	60.10
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Amine like
pH value	12.2 at 110 g/l at 20 °C	Melting point/ Freezing point [°C]	8.5 °C	Auto-ignition temperature [°C]	379 °C
Flash point [°C]	38 °C	Boiling point [°C]	118 °C	Vapour pressure [20°C]	13 hPa at 20 °C
Vapour density	2.07	Density [g/cm ³]	0.89	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	2.04	Explosion limits - upper [%]	16%	Explosion limits -lower [%]	2.70%

Packaging

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Specification

Appearance	Clear, colourless or slightly yellow hygroscopic liquid, fuming in air
Assay	98 - 101%
Density (d _{20°C/4°C})	0.895 - 0.905

Boiling Point	116 - 118°C
Carbonate	Passes test
Chloride (Cl)	Max 0.01%
Ammonia and other bases	Passes test
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Residue on evaporation	Max 0.3%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07, GHS08

Signal Word: Danger

UN No.: 1604

IMCO Class No.: 8,3

Packing Group: II

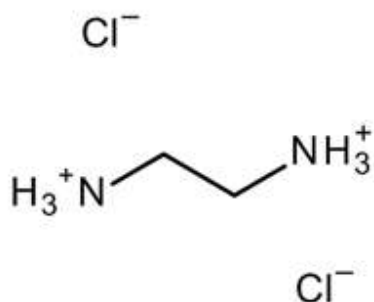
Hazardous Statement: H226-H302-H312-H314-H317-H334

Precaution Statement: P261-P280-P305 + P351 + P338-P310

ETHYLENEDIAMINE DIHYDROCHLORIDE 99% FOR SYNTHESIS

1,2-Diaminoethane dihydrochloride

Product Code.	01161	Grade	
Purity	98%	CAS No.	333-18-6
Molecular Formula	C2H8N2.2HCl	Molecular Weight	133.02
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Melting point/ Freezing point [°C]	> 300 °C
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	White crystals/crystalline powder
Assay (argentometric)	Min 98%

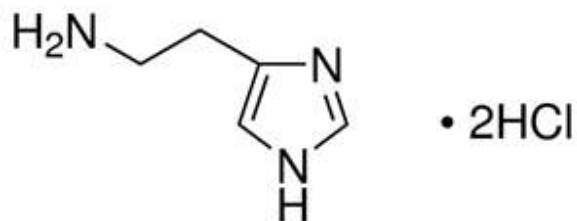
Safety Information and Hazard Symbols

Symbol: GHS07, GHS08 Signal Word: Danger Hazardous Statement: H302-H315-H317-H319-H334-H335 Precaution Statement: P261-P280-P305 + P351 + P338-P342 + P311

HISTAMINE DIHYDROCHLORIDE 98.5% FOR BIOCHEMISTRY

2-(4-Imidazolyl)ethylamine dihydrochloride

Product Code.	01359	Grade	
Purity	98.5%	CAS No.	56-92-8
Molecular Formula	C ₅ H ₉ N ₃ ·2HCl	Molecular Weight	184.07
H.S.Code	2933.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White	pH value	3.22
Melting point/ Freezing point [°C]	249 - 252				

Packaging

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Specification

Appearance	White crystalline powder
Assay (titration)	98.5-101.0%
Infrared spectrum	Conforms to structure
Loss on drying (at 105°C)	Max 0.5%
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08

Signal Word: Warning

UN No.: NA

IMCO Class No.: NA

Packing Group: NA

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

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

HYDRAZINE HYDRATE 80% AR

Highly toxic cancer suspect agent. Hydrazinium Hydroxide

Product Code.	01369	Grade	
Purity	80%	CAS No.	7803-57-8
Molecular Formula	N2H5OH	Molecular Weight	50.06
H.S.Code	2825.10200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia like
Melting point/ Freezing point [°C]	-57°C	Auto-ignition temperature [°C]	310 °C	Flash point [°C]	96 °C
Boiling point [°C]	117°C	Vapour density	1.1	Density [g/cm3]	1.028
Solubility in water [% weight]	Miscible with water	Viscosity at 40°C [mm2/s]	0.90 cps	Explosion limits - upper [%]	99.99%
Explosion limits -lower [%]	3.50%				

Packaging

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Specification

Appearance	A clear liquid
Assay	Min 80%
Density (d20°C/4°C)	1.028 - 1.030
Chloride (Cl)	Max 0.005%

Sulphate (SO₄)

Max 0.01%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2030

IMCO Class No.: 8,6.1

Packing Group: II

Hazardous Statement: H226-H301-H311-H314-H317-H331-H350-H410

Precaution Statement: P201-P261-P273-P280-P301 + P310-P305 + P351 + P338

HYDRAZINE HYDRATE 80% EXTRAPURE

Hydrazinium hydroxide

Product Code.	01368	Grade	
Purity	80%	CAS No.	7803-57-8
Molecular Formula	N2H5OH	Molecular Weight	50.06
H.S.Code	2825.10200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia like
Melting point/ Freezing point [°C]	-57°C	Auto-ignition temperature [°C]	310 °C	Flash point [°C]	96 °C
Boiling point [°C]	117°C	Vapour density	1.1	Density [g/cm3]	1.028
Solubility in water [% weight]	Miscible with water	Viscosity at 40°C [mm2/s]	0.90 cps	Explosion limits - upper [%]	99.99%
Explosion limits -lower [%]	3.50%				

Packaging

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Specification

Appearance	A clear liquid
Assay	Min 80%
Density (d20°C/4°C)	1.028 - 1.030

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2030

IMCO Class No.: 8,6.1

Packing Group: II

Hazardous Statement: H226-H301-H311-H314-H317-H331-H350-H410

Precaution Statement: P201-P261-P273-P280-P301 + P310-P305 + P351 + P338

HYDRAZINE HYDRATE 99% FOR SYNTHESIS

Hydrazinium hydroxide

Product Code.	01370	Grade	
Purity	99%	CAS No.	7803-57-8
Molecular Formula	N2H5OH	Molecular Weight	50.06
H.S.Code	2825.10200	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia like
pH value	10-11	Melting point/ Freezing point [°C]	-57°C	Auto-ignition temperature [°C]	310 °C
Flash point [°C]	96 °C	Boiling point [°C]	117°C	Vapour density	1.1
Density [g/cm3]	1.028	Solubility in water [% weight]	Miscible with water	Viscosity at 40°C [mm2/s]	0.90 cps
Explosion limits - upper [%]	99.99%	Explosion limits -lower [%]	3.50%		


Packaging

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Specification

Appearance	A clear liquid
Assay (iodometric)	Min 99%
Identity (IR)	Passes test

Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 2030 IMCO Class No.: 8,6.1 Packing Group: II Hazardous Statement: H226-H301-H311-H314-H317-H331-H350-H410 Precaution Statement: P201-P261-P273-P280-P301 + P310-P305 + P351 + P338

HYDROXYLAMINE HYDROCHLORIDE 98% FOR SYNTHESIS

Hydroxylammonium Chloride

Product Code.	01414	Grade	
Purity	98%	CAS No.	5470-11-1
Molecular Formula	H4CINO	Molecular Weight	69.49
H.S.Code	2825.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 - 3.5	Melting point/ Freezing point [°C]	155 - 157 °C	Boiling point [°C]	305.6°C
Density [g/cm ³]	1.67	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	White crystalline powder
Assay	Min 98%
Sulphated ash	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08, GHS09
Signal Word: Warning
UN No.: 2923
IMCO Class No.: 8 (6.1)
Packing Group: III
Hazardous Statement: H290-H302-H312-H315-H317-H319-H351-H373-H400
Precaution Statement: P273-P280-P305 + P351 + P338

HYDROXYLAMINE HYDROCHLORIDE 99% AR

Powerful reducing agent used as catalyst . Swelling agent and co-polymerization inhibitor in polymerization process. Hydroxylammonium chloride

Product Code.	01415	Grade	AR
Purity	99%	CAS No.	5470-11-1
Molecular Formula	H4CINO	Molecular Weight	69.49
H.S.Code	2825.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 - 3.5	Melting point/ Freezing point [°C]	155 - 157 °C	Boiling point [°C]	305.6°C
Density [g/cm ³]	1.67	Solubility in water [% weight]	Soluble in water		

Packaging

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Specification

Appearance	Colorless hygroscopic solids or white crystalline powder
Assay	Min 99.0%
Clarity of solution (1 g in 25 mL ethanol)	Passes test
pH (5% solution in water)	2.5 - 3.5
Sulphur compounds (as SO ₄)	Max 0.005%
Heavy metals (by ICP-OES)	Max 0.0005%

Iron (Fe)	Max 0.0005%
Ammonium (NH ₄)	Passes ACS test
Residue on ignition	Max 0.05%
Titration free acid	Max 0.25 meq/g

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07, GHS08, GHS09

Signal Word: Warning

UN No.: 2923

IMCO Class No.: 8 (6.1)

Packing Group: III

Hazardous Statement: H290-H302-H312-H315-H317-H319-H351-H373-H400

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

HYDROXYLAMINE SULPHATE 97% EXTRAPURE

Hydroxylammonium Sulphate

Product Code.	01416	Grade	Extrapure
Purity	97%	CAS No.	10039-54-0
Molecular Formula	H8N2O6S	Molecular Weight	164.13
H.S.Code	2825.10400	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]	170 °C	Density [g/cm3]	1.9
Solubility in water [% weight]	Freely soluble				

Packaging

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Specification

Appearance	White crystalline powder
Assay	Min 97.0%
Sulphated ash	Max 0.1%
Chloride (Cl)	Max 0.005%
Iron (Fe)	Max 0.002%
Lead (Pb)	Max 0.002%

Safety Information and Hazard Symbols

Symbol: GHS05, GHS07, GHS08, GHS09 Signal Word: Warning UN No.: 2865 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H290-H302-H312-H315-H317-H319-H351-H373-H400 Precaution Statement: P273-P280-P305 + P351 + P338

HYDROXYLAMINE SULPHATE 99% AR

Hydroxylammonium Sulphate

Product Code.	01417	Grade	
Purity	99%	CAS No.	10039-54-0
Molecular Formula	H8N2O6S	Molecular Weight	164.13
H.S.Code	2825.10400	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]	170 °C	Density [g/cm3]	1.9
Solubility in water [% weight]	Freely soluble				

Specification

Appearance	White crystalline powder
Assay	Min 99%
Chloride (Cl)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Copper (Cu)	Max 0.0005%
Iron (Fe)	Max 0.0005%
Arsenic (As)	Max 0.00005%
Residue on ignition (as SO4)	Max 0.1%

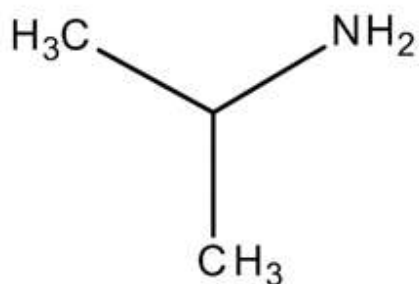
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07, GHS08, GHS09 Signal Word: Warning UN No.: 2865 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H290-H302-H312-H315-H317-H319-H351-H373-H400 Precaution Statement: P273-P280-P305 + P351 + P338

ISO-PROPYLAMINE 99% FOR SYNTHESIS

2-Aminopropane ; (mono-iso-propylamine) (isopropylamine)

Product Code.	02207	Grade	For Synthesis
Purity	99%	CAS No.	75-31-0
Molecular Formula	C3H9N	Molecular Weight	59.11
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia like odour
pH value	13 at 700 g/l at 20 °C	Melting point/ Freezing point [°C]	-101 °C	Auto-ignition temperature [°C]	402 ° C
Flammability (solid, gas)	Flammable	Flash point [°C]	-37 ° C	Boiling point [°C]	33 - 34 °C
Initial boiling point [°C]	33°C	Final boiling point [°C]	34 °C	Vapour pressure [20°C]	634.1 hPa at 20 °C
Vapour density	2.04	Density [g/cm3]	0.6891	Solubility in water [% weight]	Soluble
Partition coefficient Log Pow octanol / water at 20°C	-0.03	Explosion limits - upper [%]	10.40%	Explosion limits -lower [%]	2%

Packaging

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Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.0%

Density (d20°C/4°C)	0.687 - 0.688 g/ml
Water (H2O)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1221

IMCO Class No.: 3,8

Packing Group: I

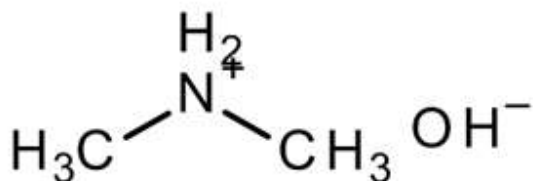
Hazardous Statement: H224-H315-H319-H335

Precaution Statement: P210-P261-P305 + P351 + P338

METHYLAMINE SOLUTION (DI) 40%

DMA; N-Methyl-Methanamine

Product Code.	01705	Grade	
Purity	40%	CAS No.	124-40-3
Molecular Formula	C2H7N	Molecular Weight	45.09
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonical odour
Melting point/ Freezing point [°C]	Highly alkaline	Auto-ignition temperature [°C]	401 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	16 °C	Vapour pressure mm/Hg	1.170,0 hPa at 55 °C	Density [g/cm ³]	0.83-0.93
Solubility in water [% weight]	Soluble in water	Explosion limits - upper [%]	14.40%	Explosion limits -lower [%]	2.80%

Specification

Appearance	A clear, colourless to pale yellow liquid
Assay (acidimetric)	Min 40%
Density (d ₂₀ °C/4°C)	0.885 - 0.895

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 1160

IMCO Class No.: 3,8

Packing Group: II

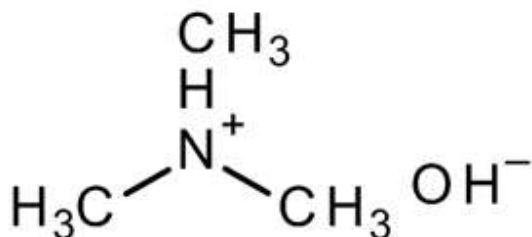
Hazardous Statement: H225-H302-H314

Precaution Statement: P210-P280-P305 + P351 + P338-P310

METHYLAMINE SOLUTION (TRI) 30%

N,N-DIMETHYLMETHANAMINE

Product Code.	01707	Grade	
Purity	30%	CAS No.	75-50-3
Molecular Formula	C3H9N	Molecular Weight	59.11
H.S.Code	2921.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless to pale yellow	Odour	Fishy, ammonical odor
Melting point/ Freezing point [°C]	- 2 °C	Auto-ignition temperature [°C]	About 250 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	- 45 °C	Vapour pressure [20°C]	600 hPa	Solubility in water [% weight]	Freely Soluble
Explosion limits - upper [%]	11.60%	Explosion limits -lower [%]	2%		

Specification

Appearance	Colourless solution
Assay (acidimetric)	Min 30%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07
Signal Word: Danger
UN No.: 1297
IMCO Class No.: 3, 8
Packing Group: II
Hazardous Statement: H224-H302-H314-H335
Precaution Statement: P210-P261-P280-P305 + P351 + P338-P310

METHYLAMINE SOLUTION 40% FOR SYNTHESIS (MONO)

Solution 40% in Water. Monomethylamine

Product Code.	01706	Grade	For Synthesis
Purity	40%	CAS No.	74-89-5
Molecular Formula	CH ₅ N	Molecular Weight	31.06
H.S.Code	2921.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fishy ammonical
pH value	14,0 at 100 g/l	Melting point/ Freezing point [°C]	-40 °C	Auto-ignition temperature [°C]	430 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	-10 °C	Boiling point [°C]	48 °C
Vapour pressure [20°C]	371 hPa at 20 °C	Vapour density	1.07	Density [g/cm ³]	0.9
Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-0.713	Explosion limits - upper [%]	26.40%
Explosion limits -lower [%]	5.20%				

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (acidimetric)	About 40%
Density (d _{20°C/4°C})	0.893 - 0.897

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 1235

IMCO Class No.: 3,8

Packing Group: II

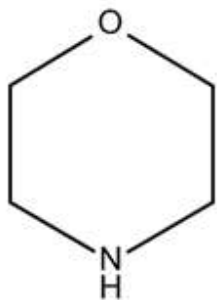
Hazardous Statement: H225-H302-H314-H331-H335

Precaution Statement: P210-P261-P280-P305 + P351 + P338-P310

MORPHOLINE 98.5% EXTRAPURE

Tetrahydro-1,4-oxazine

Product Code.	01769	Grade	
Purity	98.5%	CAS No.	110-91-8
Molecular Formula	C4H9NO	Molecular Weight	87.12
H.S.Code	2933.39170	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Characteristic ammonia odour
pH value	10.6	Melting point/ Freezing point [°C]	-7 - -5 °C	Auto-ignition temperature [°C]	310°C
Flash point [°C]	31 °C	Boiling point [°C]	126 - 130 °C	Initial boiling point [°C]	126 °C
Final boiling point [°C]	130 °C	Vapour pressure [20°C]	9 hPa at 20 °C	Vapour density	3.01
Density [g/cm ³]	0.996	Solubility in water [% weight]	Completely miscible	Partition coefficient Log Pow octanol / water at 20°C	2.55
Explosion limits - upper [%]	10.80%	Explosion limits -lower [%]	1.80%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (GC area %)	Min 98.5%

Weight/ mL at 20°C	0.998 - 1.000 g
Refractive index (20°C; 589 nm)	1.453 - 1.455
Water (H ₂ O)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 2054

IMCO Class No.: 8,3

Packing Group: I

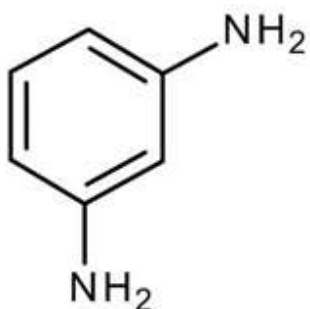
Hazardous Statement: H226-H302-H312-H314-H332

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

M-PHENYLENEDIAMINE 98% FOR SYNTHESIS

1,3-Benzenediamine; 1,3-Diaminobenzene; 1,3-Phenylenediamine; MPDA

Product Code.	01988	Grade	
Purity	98%	CAS No.	108-45-2
Molecular Formula	C6H4(NH2)2	Molecular Weight	108.14
H.S.Code	2921.51200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light grey to blackish	Melting point/ Freezing point [°C]	64 - 66 °C
Boiling point [°C]	282 - 284 °C	Initial boiling point [°C]	282°C	Final boiling point [°C]	284 °C
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	Yellow to light tan or brown gray pellets
Assay	Min 98%
Melting point	60 - 63 °C
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1673

IMCO Class No.: 6.1

Packing Group: III

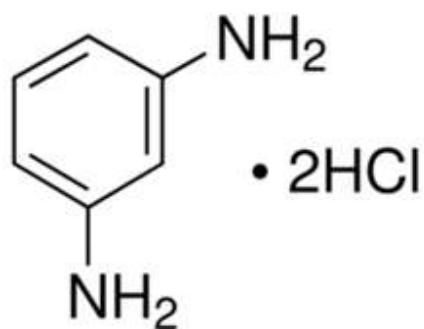
Hazardous Statement: H301-H311-H317-H319-H331-H341-H410

Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

M-PHENYLENEDIAMINE DIHYDROCHLORIDE 99% PURIFIED

1,3-Benzenediaminedihydrochloride; 1,3-Phenylenediamine dihydrochloride

Product Code.	01989	Grade	
Purity	99%	CAS No.	541-69-5
Molecular Formula	C6H8N2.2HCl	Molecular Weight	181.07
H.S.Code	2921.51200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Faint red
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Packaging

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Specification

Appearance	Light beige to gray-beige crystalline powder
Assay (argentometric)	Min 99%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2811

IMCO Class No.: 6.1

Packing Group: III

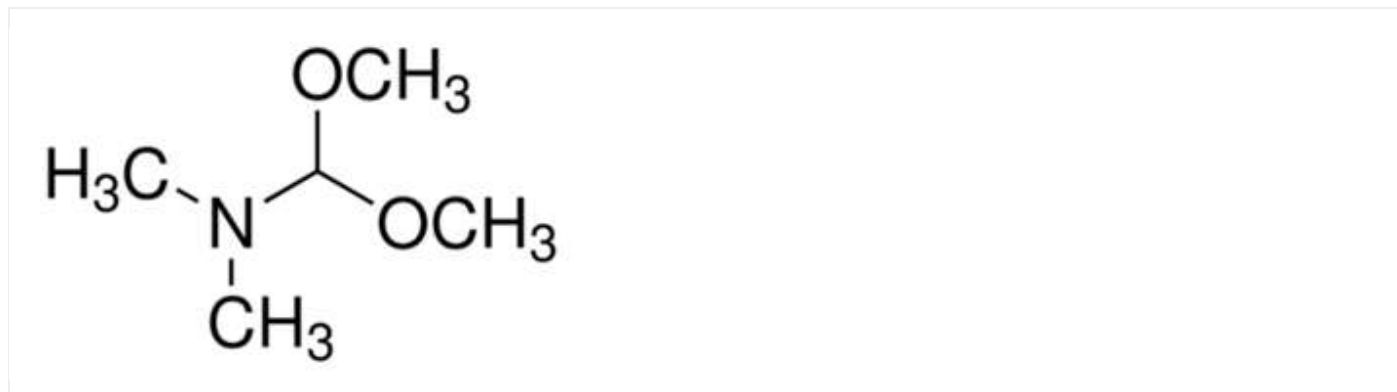
Hazardous Statement: H301-H311-H317-H319-H331-H341-H410

Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

N,N'-DIMETHYLFORMAMIDE DIMETHYL ACETAL 96% FOR SYNTHESIS

1,1-Dimethoxytrimethylamine; 1,1-Dimethoxy-N,N-dimethylmethanamine

Product Code.	01039	Grade	For Synthesis
Purity	96%	CAS No.	4637-24-5
Molecular Formula	C5H13NO2	Molecular Weight	119.16
H.S.Code	2922.50900	Shelf Life	60 Months



Specification

Appearance	A Clear colorless to pale yellow liquid
Assay (by HClO4 titration)	Min 96%
Identity (IR)	Passes test
Weight/ mL at 25°C	0.893 – 0.897 g/ml

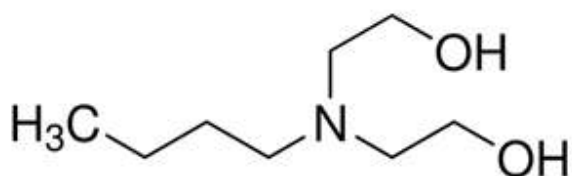
Safety Information and Hazard Symbols

Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 3271 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H302-H315-H319-H335 Precaution Statement: P210-P261-P305 + P351 + P338

N,N-BUTYLDIETHANOLAMINE 98% FOR SYNTHESIS

2,2'-Butyliminodiethanol; N,N-Bis(2-hydroxyethyl) butylamine

Product Code.	00574	Grade	For Synthesis
Purity	98%	CAS No.	102-79-4
Molecular Formula	C ₈ H ₁₉ NO ₂	Molecular Weight	161.24
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	Clear liquid or Faint yellow viscous liquid
Colour scale	Max 200 APHA
Infrared spectrum	Passes test
Refractive index (20°C; 589 nm)	1.4610 to 1.4640
Purity (by GC)	Min 97.5%
Water (H ₂ O)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 2735

IMCO Class No.: 8

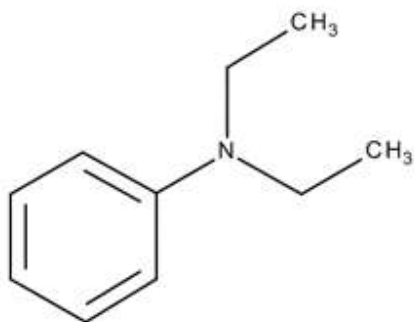
Packing Group: II

Hazardous Statement: H314

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

N,N-DIETHYLANILINE 98.5% FOR SYNTHESIS DEA

Product Code.	00985	Grade	For Synthesis
Purity	98.5%	CAS No.	91-66-7
Molecular Formula	C10H15N	Molecular Weight	149.24
H.S.Code	2925.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Brownish yellow liquid	Melting point/ Freezing point [°C]	-38 °C
Auto-ignition temperature [°C]	630 °C	Flash point [°C]	88 °C	Boiling point [°C]	217 °C
Vapour density	1	Density [g/cm ³]	0.9302	Solubility in water [% weight]	Partially soluble in cold water

Packaging

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Specification

Appearance	Brownish yellow colored liquid
Assay	Min 98.5%
Density (d ₂₀ ^{°C} /4 ^{°C})	0.933 - 0.934 g/ml

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2432

IMCO Class No.: 6.1

Packing Group: III

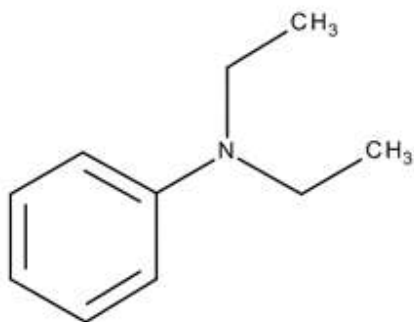
Hazardous Statement: H301-H311-H331-H373-H411

Precaution Statement: P261-P273-P280-P301 + P310-P311

N,N-DIETHYLANILINE 99% AR (REAGENT FOR ZINC)

Reagent for Zinc. DEA

Product Code.	00986	Grade	AR
Purity	99%	CAS No.	91-66-7
Molecular Formula	C ₁₀ H ₁₅ N	Molecular Weight	149.24
H.S.Code	2925.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Brownish yellow liquid	Melting point/ Freezing point [°C]	-38 °C
Auto-ignition temperature [°C]	630 °C	Flash point [°C]	88 °C	Boiling point [°C]	217 °C
Vapour density	1	Density [g/cm ³]	0.9302	Solubility in water [% weight]	Partially soluble in cold water

Packaging

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Specification

Appearance	Brownish yellow colored liquid
Assay (by GC)	Min 99.0%
Ethylaniline (GC)	Max 0.5%
Aniline (by GC)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2432

IMCO Class No.: 6.1

Packing Group: III

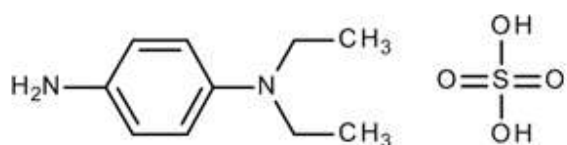
Hazardous Statement: H301-H311-H331-H373-H411

Precaution Statement: P261-P273-P280-P301 + P310-P311

N,N-DIETHYL-P-PHENYLENEDIAMINE SULPHATE 99% AR

4-Amino-N,N-diethylaniline sulfate salt

Product Code.	01004	Grade	AR
Purity	99%	CAS No.	6283-63-2
Molecular Formula	C ₁₀ H ₁₈ N ₂ O ₄ S	Molecular Weight	262.33
H.S.Code	2921.51900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white powder	Melting point/ Freezing point [°C]	184 - 187 °C
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	White to beige to light brown powder, crystals, granules or chunks
Assay (acidimetric)	Min 99.0%
Melting range	184 - 187 °C
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Sulphated ash	Max 0.05%
Water (H ₂ O)	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS07

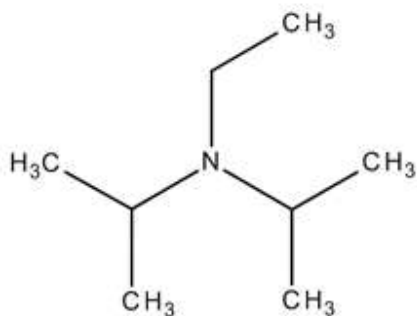
Signal Word: Warning

Hazardous Statement: H302

N,N-DIISOPROPYLETHYLAMINE 98% FOR PEPTIDE SYNTHESIS

For peptide synthesis Ethylene diisopropylamine ; (DIEA)

Product Code.	01017	Grade	For Synthesis
Purity	98%	CAS No.	7087-68-5
Molecular Formula	C ₈ H ₁₉ N	Molecular Weight	129.25
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonical odour
pH value	12.3	Melting point/ Freezing point [°C]	-50 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	10.6 °C	Boiling point [°C]	127 °C	Vapour pressure [20°C]	16 hPa at 20 °C
Density [g/cm ³]	0.742	Explosion limits - upper [%]	6.30%	Explosion limits -lower [%]	0.70%

Packaging

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Specification

Appearance	Clear colorless to yellow liquid
Purity (by GC)	Min 98.0%
Density (d _{20°C/4°C})	0.755 - 0.758 g/ml
Water (by KF)	Max 0.3%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 2733

IMCO Class No.: 3, 8

Packing Group: II

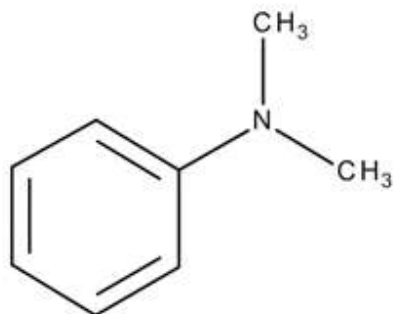
Hazardous Statement: H225-H301-H314-H412

Precaution Statement: P210-P273-P280-P301 + P310-P305 + P351 + P338-P310

N,N-DIMETHYL ANILINE 99.5% AR

Aniline and monomethylanilin accordance. Substance darkened by HCL in accordance. N,N-Dimethylbenzeneamine

Product Code.	01032	Grade	AR
Purity	99.5%	CAS No.	121-69-7
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.42230	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Yellow	Odour	Amine-like odor
pH value	7.4	Melting point/ Freezing point [°C]	2.5 °C	Auto-ignition temperature [°C]	317 °C
Flash point [°C]	75 °C	Boiling point [°C]	76 - 78 °C	Initial boiling point [°C]	76 °C
Final boiling point [°C]	78 °C	Evaporation rate	<1	Vapour pressure mm/Hg	0.52 mm Hg @ 25°C
Vapour density	4.2	Solubility in water [% weight]	Negligible	Explosion limits - upper [%]	7%
Explosion limits -lower [%]	1%				

Packaging

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Specification

Appearance	Yellow color clear liquid
Purity (by GC)	Min 99.5%

Weight/ mL at 20°C	0.954 - 0.958 g/ml
Refractive index (20°C; 589 nm)	1.5570 to 1.5590

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2253

IMCO Class No.: 6.1

Packing Group: II

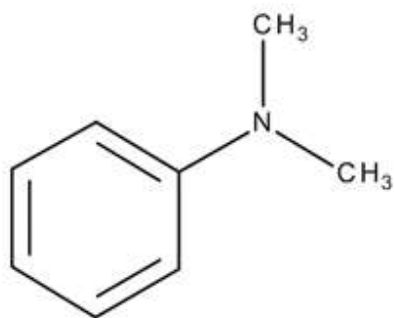
Hazardous Statement: H301-H311-H331-H351-H411

Precaution Statement: P261-P273-P280-P301 + P310-P311

N,N-DIMETHYL ANILINE 99% FOR SYNTHESIS

N,N-Dimethylbenzenamine, Dimethylaminobenzene

Product Code.	01031	Grade	For Synthesis
Purity	99%	CAS No.	121-69-7
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.42230	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Yellow	Odour	Amine-like odor
pH value	7.4	Melting point/ Freezing point [°C]	2.5 °C	Auto-ignition temperature [°C]	317 °C
Flash point [°C]	75 °C	Boiling point [°C]	192 - 195°C	Initial boiling point [°C]	192°C
Final boiling point [°C]	195°C	Evaporation rate	<1	Vapour pressure mm/Hg	0.52 mm Hg @ 25°C
Vapour density	4.2	Solubility in water [% weight]	Negligible	Explosion limits - upper [%]	7%
Explosion limits -lower [%]	1%				

Packaging

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Specification

Appearance	Yellow color clear liquid
Purity (by GC)	Min 99.0%
Weight/ mL at 20°C	0.954 - 0.958 g/ml

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2253

IMCO Class No.: 6.1

Packing Group: II

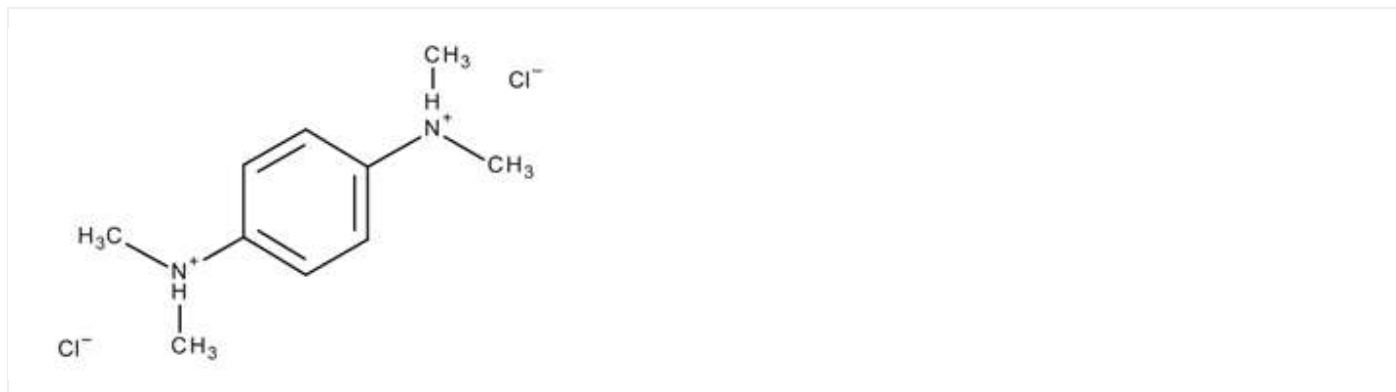
Hazardous Statement: H301-H311-H331-H351-H411

Precaution Statement: P261-P273-P280-P301 + P310-P311

N,N,N',N'-TETRAMETHYL -P- PHENYLENEDIAMINE DI-HYDROCHLORIDE 99% EXTRAPURE

TMPPD; Wurster's reagent

Product Code.	02662	Grade	
Purity	98%	CAS No.	637-01-4
Molecular Formula	C ₁₀ H ₁₈ Cl ₂ N ₂	Molecular Weight	237.18
H.S.Code	2921.51900	Shelf Life	60 Months




Physical Properties

Physical state at 20 °C	Solid	Colour	Grey powder	Odour	Odorless
Melting point/ Freezing point [°C]	222 - 224 °C	Solubility in water [% weight]	Soluble in water		

Specification

Appearance	Gray powder
Assay	Min 98%
Melting point	222 - 224 °C

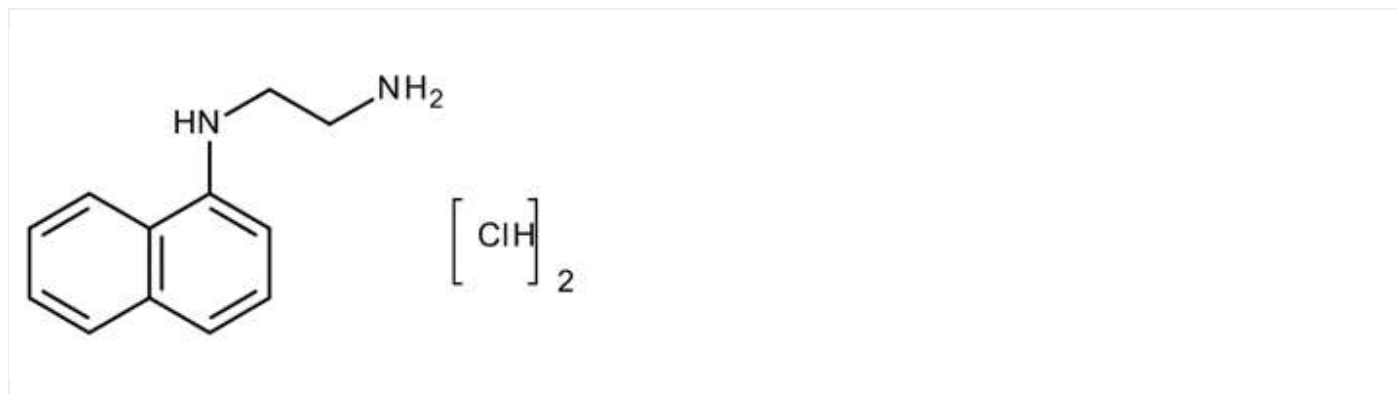
Safety Information and Hazard Symbols


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

N-1-NAPHTHYL ETHYLENE DIAMINE DIHYDROCHLORIDE 98% AR

Reagent for nitrite, potassium and sulphate for determination of sulphonamide in blood. 2-(1-Naphthylamino)ethylamine dihydrochloride

Product Code.	01792	Grade	AR
Purity	98%	CAS No.	1465-25-4
Molecular Formula	C ₁₂ H ₁₆ Cl ₂ N ₂	Molecular Weight	259.18
H.S.Code	2921.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White	Melting point/ Freezing point [°C]	194 - 198 °C
Solubility in water [% weight]	Soluble in hot water				

Specification

Appearance	Off white to pale grey / pale brown powder
Assay	Min 98%
Suitability (for detection of sulphonamide)	Passes test

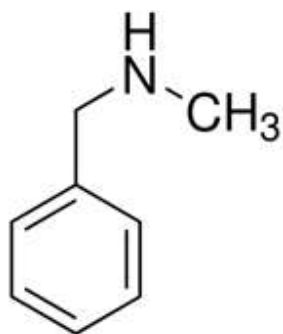
Safety Information and Hazard Symbols

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

N-BENZYL METHYLAMINE 97% FOR SYNTHESIS

N-Methylbenzylamine

Product Code.	00402	Grade	
Purity	97%	CAS No.	103-67-3
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.49900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Light Yellow	Flash point [°C]	75
Boiling point [°C]	184-189	Density [g/cm ³]	0.939 at 25°C	Solubility in water	65 g/L at 20°C
Explosion limits - upper [%]	7.7% (V)	Explosion limits -lower [%]	1.4% (V)		

Packaging



Specification

Appearance	Clear colorless to light yellow liquid
Assay (GC area %)	Min 97.0%
Density (at 20°C)	0.941 - 0.943

Safety Information and Hazard Symbols



Symbol: GHS05, GHS08

Signal Word: Danger

UN No.: 2735

IMCO Class No.: 8

Packing Group: II

Hazardous Statement: H314-H317-H334

Precaution Statement: P261-P280-P305 + P351 + P338-P310

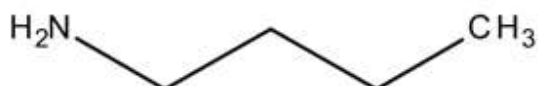
Risk Statement: 34-42/43

Safety Statement: 23-26-36/37/39-45

N-BUTYLAMINE 98% EXTRAPURE

1-Butanamine; 1-Aminobutane

Product Code.	00561	Grade	Extrapure
Purity	98%	CAS No.	109-73-9
Molecular Formula	C4H11N	Molecular Weight	73.14
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia odour
Odour threshold	0.08 ppm	pH value	13	Melting point/ Freezing point [°C]	-49.1°C
Auto-ignition temperature [°C]	312°C	Flammability (solid, gas)	Extremely flammable	Flash point [°C]	-12°C
Boiling point [°C]	77.1 °C	Evaporation rate	7.3	Vapour pressure mm/Hg	82 @ 20C
Vapour density	2.5	Density [g/cm3]	0.74	Solubility in water [% weight]	Miscible in water
Explosion limits - upper [%]	9.80%	Explosion limits -lower [%]	1.70%		


Packaging



Specification

Appearance	A clear, colorless liquid
Assay	Min 98.0%
Weight/ mL at 20°C	0.736 - 0.742 g/ml
Refractive index (20°C; 589 nm)	1.400 - 1.404

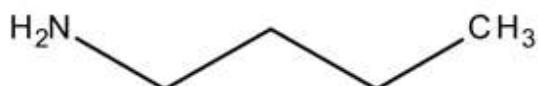
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 1125 IMCO Class No.: 3,8 Packing Group: II Hazardous Statement: H225-H302-H312-H314-H332 Precaution Statement: P210-P280-P305 + P351 + P338-P310

N-BUTYLAMINE 99% AR

1-Butanamine; 1-Aminobutane

Product Code.	00562	Grade	
Purity	99%	CAS No.	109-73-9
Molecular Formula	C4H11N	Molecular Weight	73.14
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonia odour
Odour threshold	0.08 ppm	pH value	13	Melting point/ Freezing point [°C]	-49.1°C
Auto-ignition temperature [°C]	312°C	Flammability (solid, gas)	Extremely flammable	Flash point [°C]	-12°C
Boiling point [°C]	77.1 °C	Evaporation rate	7.3	Vapour pressure mm/Hg	82 @ 20C
Vapour density	2.5	Density [g/cm3]	0.74	Solubility in water [% weight]	Miscible in water
Explosion limits - upper [%]	9.80%	Explosion limits -lower [%]	1.70%		


Packaging



Specification

Appearance	A clear, colorless liquid
Assay	Min 99%
Density (d ₂₀ ^{°C} /4 ^{°C})	0.737 - 0.740
Water (H ₂ O)	Max 0.5%

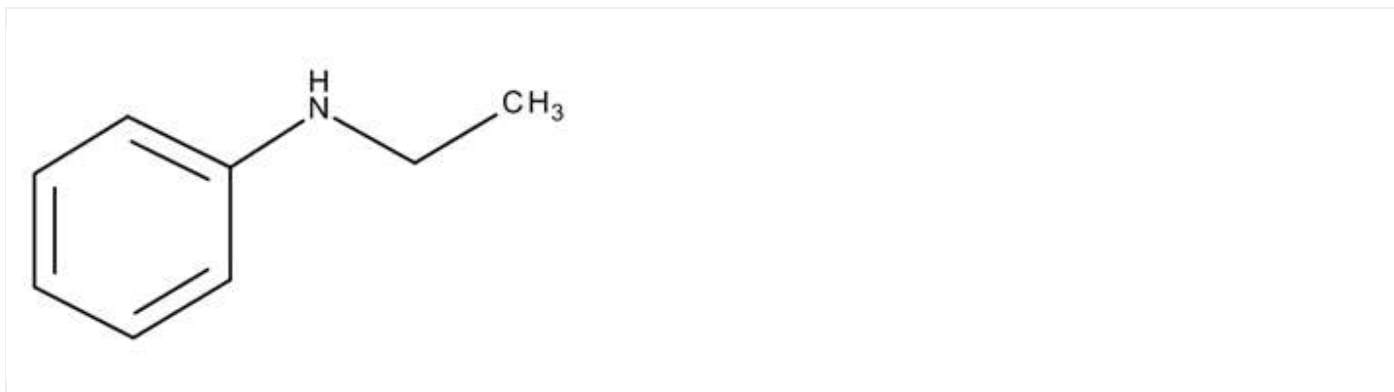
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 1125 IMCO Class No.: 3,8 Packing Group: II Hazardous Statement: H225-H302-H312-H314-H332 Precaution Statement: P210-P280-P305 + P351 + P338-P310

N-ETHYLANILINE 98% FOR SYNTHESIS

Monoethylaniline ; N-Ethylaniline

Product Code.	01148	Grade	
Purity	98%	CAS No.	103-69-5
Molecular Formula	C8H11N	Molecular Weight	121.18
H.S.Code	2921.42900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Yellow to brown	Melting point/ Freezing point [°C]	-63 °C
Flash point [°C]	85 °C	Boiling point [°C]	205 °C	Vapour pressure [20°C]	0.3 hPa at 20 °C
Vapour density	4.18	Density [g/cm3]	0.96	Explosion limits - upper [%]	9.50%
Explosion limits -lower [%]	1.60%				

Packaging

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Specification

Appearance	Yellow to brown coloured liquid
Assay	Min 98%
Density (d20°C/4°C)	0.959 - 0.961
Refractive index (20°C; 589 nm)	~1.5538

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 2272

IMCO Class No.: 6.1

Packing Group: III

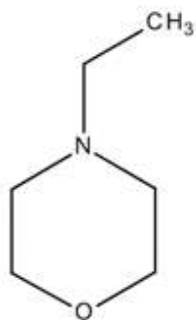
Hazardous Statement: H301-H311-H331-H373

Precaution Statement: P261-P280-P301 + P310-P311

N-ETHYL-MORPHOLINE 97% FOR SYNTHESIS

4-Ethylmorpholine

Product Code.	01188	Grade	
Purity	97%	CAS No.	100-74-3
Molecular Formula	C6H13NO	Molecular Weight	115.18
H.S.Code	2934.99000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	10.1 at 10 g/l at 20 °C
Melting point/ Freezing point [°C]	-63 °C	Flash point [°C]	30 °C	Boiling point [°C]	139 °C
Vapour pressure [20°C]	8 hPa at 20 °C	Density [g/cm3]	0.91	Solubility in water [% weight]	Miscible with water
Partition coefficient Log Pow octanol / water at 20°C	0.055	Explosion limits - upper [%]	11.80%	Explosion limits -lower [%]	1.90%

Packaging

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Specification

Appearance	A clear colourless liquid
Assay (GC area %)	Min. 97%
Density (d20°C/4°C)	0.913 - 0.916
Refractive index (20°C; 589 nm)	1.4415

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 2920

IMCO Class No.: 8, 3

Packing Group: II

Hazardous Statement: H226-H302 + H332-H311-H314

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

N-ETHYLMORPHOLINE 99%

Product Code.	1188A	Grade	
Purity	98.5%	CAS No.	100-74-3
Molecular Formula	C6H13NO	Molecular Weight	115.17
H.S.Code	2934.99000	Shelf Life	60 Months


Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	10.1 at 10 g/l at 20 °C
Melting point/ Freezing point [°C]	-63 °C	Flash point [°C]	30 °C	Boiling point [°C]	139 °C
Vapour pressure [20°C]	8 hPa at 20 °C	Density [g/cm ³]	0.91	Solubility in water [% weight]	Miscible with water
Partition coefficient Log Pow octanol / water at 20°C	0.055	Explosion limits - upper [%]	11.80%	Explosion limits -lower [%]	1.90%

Specification

Appearance (Color)	Clear colorless to yellow
Appearance (Form)	Liquid
Infrared spectrum	Conforms
GC	Min 98.5 %
Refractive index	1.4400 to 1.4420 (20°C, 589 nm)

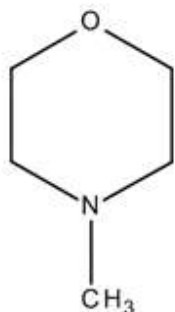
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS06 Signal Word: Danger UN No.: 2920 IMCO Class No.: 8, 3 Packing Group: II Hazardous Statement: H226-H302 + H332-H311-H314 Precaution Statement: P280-P305 + P351 + P338-P310

N-METHYL MORPHOLINE 98% EXTRAPURE

Used as an extraction solvent & as an stabilizer for chlorinated hydrocarbons. 4-Methylmorpholine; NMM

Product Code.	01734	Grade	Extrapure
Purity	98%	CAS No.	109-02-4
Molecular Formula	C5H11NO	Molecular Weight	101.15
H.S.Code	2934.30000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless to pale yellow coloured liquid	Odour	Penetrating ammoniacal odor
pH value	10.6 at 50 g/l at 20 °C	Melting point/ Freezing point [°C]	-66 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	14 °C	Boiling point [°C]	115 - 116 °C	Initial boiling point [°C]	115 °C
Final boiling point [°C]	116 °C	Vapour pressure [20°C]	30 hPa at 20 °C	Vapour density	3.49
Density [g/cm ³]	0.92	Solubility in water [% weight]	Soluble 100%	Partition coefficient Log Pow octanol / water at 20°C	-0.32
Explosion limits - upper [%]	11.80%	Explosion limits -lower [%]	2.20%		

Packaging

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Specification

Appearance	A clear colorless to pale yellow coloured liquid
Assay	Min. 98.0%

Density (d₂₀^{°C}/4^{°C})

0.917 - 0.918 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 2535

IMCO Class No.: 3, 8

Packing Group: II

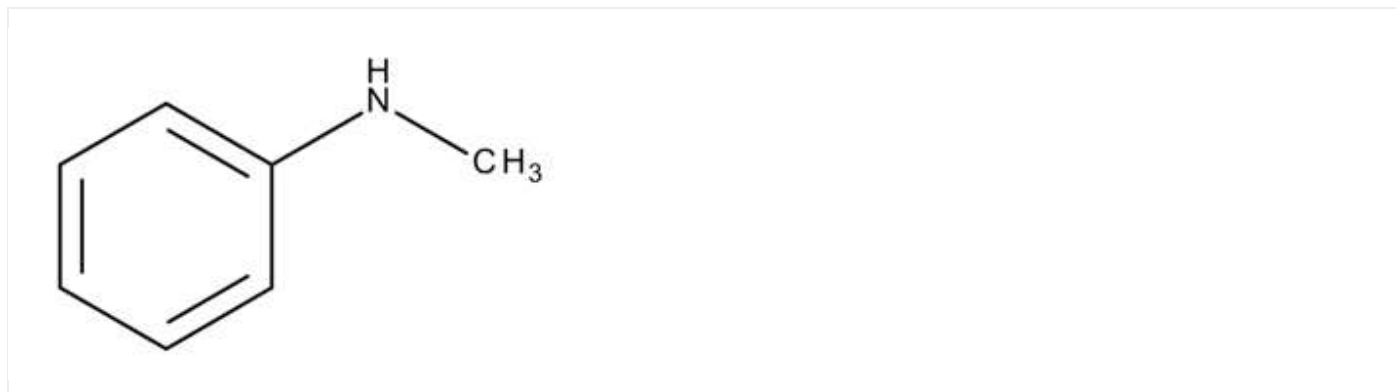
Hazardous Statement: H225-H302 + H312 + H332-H314

Precaution Statement: P210-P280-P305 + P351 + P338-P310

N-METHYLANILINE 98% FOR SYNTHESIS

N-Methyl Aniline


Product Code.	01710	Grade	For Synthesis
Purity	98%	CAS No.	100-61-8
Molecular Formula	C7H9N	Molecular Weight	107.16
H.S.Code	2921.42900	Shelf Life	36 Months



Specification

Appearance	Clear colourless to yellow liquid
Assay	Min 98.0%
Density (d _{20°C/4°C})	0.982 - 0.987 g/ml
Refractive index (20°C; 589 nm)	1.5705 - 1.5715

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 2294 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H331-H373-H410 Precaution Statement: P261-P273-P280-P301 + P310-P311-P501

N-PROPYLAMINE 99% FOR SYNTHESIS

1-Aminopropane

Product Code.	02208	Grade	For Synthesis
Purity	99%	CAS No.	107-10-8
Molecular Formula	C3H9N	Molecular Weight	59.11
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ammonical odour
Melting point/ Freezing point [°C]	-83°C	Critical temperature [°C]	223.8°C	Auto-ignition temperature [°C]	317°C
Flammability (solid, gas)	Flammable	Flash point [°C]	-37.26°C	Boiling point [°C]	48.5°C
Vapour pressure [20°C]	245 mm of Hg (@ 20°C)	Vapour pressure mm/Hg	245 mm of Hg (@ 20°C)	Vapour density	2.04
Density [g/cm ³]	0.719	Solubility in water [% weight]	Very slightly soluble in cold water	Explosion limits - upper [%]	10.40%
Explosion limits -lower [%]	2%				

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99.0%

Density (d20°C/4°C)	0.716 - 0.717 g/ml
Water (by KF)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 1277

IMCO Class No.: 3,8

Packing Group: II

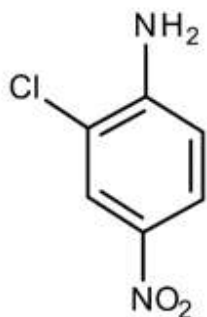
Hazardous Statement: H225-H302-H311-H314-H331

Precaution Statement: P210-P261-P280-P305 + P351 + P338-P310

O-CHLORO-P-NITROANILINE 98% FOR SYNTHESIS

2-Chloro-4-nitroaniline

Product Code.	00774	Grade	
Purity	98%	CAS No.	121-87-9
Molecular Formula	C6H5ClN2O2	Molecular Weight	172.57
H.S.Code	2921.42260	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow powder	Melting point/ Freezing point [°C]	105 - 108 °C
Decomposition point [°C]	210°C	Flash point [°C]	193 °C	Vapour pressure [20°C]	< 1 mbar at 20°C
Vapour density	5.9	Solubility in water [% weight]	0.23 g/L Water (20°C)	Partition coefficient Log Pow octanol / water at 20°C	1.245

Packaging

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Specification

Appearance	Yellow coloured crystalline powder
Assay	Min 98%
Melting range	105 -108 deg C

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 2237

IMCO Class No.: 6.1

Packing Group: III

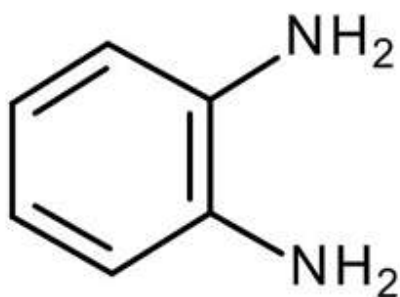
Hazardous Statement: H302-H411

Precaution Statement: P273

O-PHENYLENEDIAMINE 98% FOR SYNTHESIS

1,2-Diaminobenzene; 1,2-Phenylenediamine; OPD

Product Code.	01990	Grade	For Synthesis
Purity	98%	CAS No.	95-54-5
Molecular Formula	C6H4(NH2)2	Molecular Weight	108.14
H.S.Code	2921.51100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Brownish yellow	Odour	Acetic odor
pH value	8.7	Melting point/ Freezing point [°C]	100 - 102 °C	Flash point [°C]	136 °C
Boiling point [°C]	256 - 258 °C	Initial boiling point [°C]	256 °C	Final boiling point [°C]	258 °C
Vapour pressure mm/Hg	0.01 mm Hg @ 250C	Density [g/cm3]	1.03	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.15	Explosion limits -lower [%]	1.50%		

Packaging

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Specification

Appearance	Pale/ Brownish yellow flakes
Assay	Min 98%
Melting point	101 - 103 °C
Sulphated ash	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1673

IMCO Class No.: 6.1

Packing Group: III

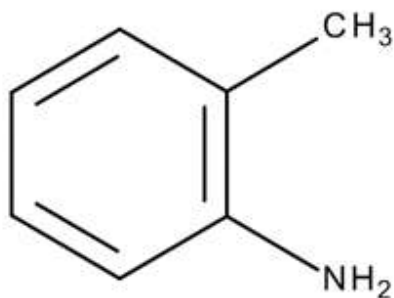
Hazardous Statement: H301-H312-H317-H319-H332-H341-H351-H410

Precaution Statement: P273-P280-P301 + P310-P305 + P351 + P338-P501

O-TOLUIDINE 99% FOR SYNTHESIS

2-Aminotoluene; 2-Methylaniline

Product Code.	02737	Grade	
Purity	99%	CAS No.	95-53-4
Molecular Formula	C7H9N	Molecular Weight	107.16
H.S.Code	2921.43300	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless to yellow	Odour	Amine like
Melting point/ Freezing point [°C]	-23°C	Auto-ignition temperature [°C]	480°C	Flash point [°C]	85 °C
Boiling point [°C]	199 - 200°C	Initial boiling point [°C]	199°C	Final boiling point [°C]	200°C
Vapour pressure [20°C]	0.2 mbar @ 20°C	Vapour density	3.7	Density [g/cm3]	1.004
Solubility in water [% weight]	1.5 g/100mL (25°C)				

Packaging

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Specification

Appearance	*A clear colorless to brownish colored liquid
Assay	Min 99%
Water (H2O)	Max 0.1%
Sulphated ash	Max 0.005%

p-Toluidine & m-Toluidine	Max 0.4%
Heavy metal (as Pb)	Max 0.0001%
Iron (Fe)	Max 0.0001%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 1708

IMCO Class No.: 6.1

Packing Group: II

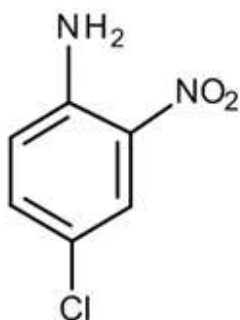
Hazardous Statement: H301-H319-H331-H350-H400

Precaution Statement: P201-P261-P273-P301 + P310-P305 + P351 + P338-P311

P-CHLORO-O-NITROANILINE 98% FOR SYNTHESIS

4-Chloro-2-nitroaniline

Product Code.	00773	Grade	
Purity	98%	CAS No.	89-63-4
Molecular Formula	C6H5ClN2O2	Molecular Weight	172.57
H.S.Code	2921.42260	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Orange powder	Melting point/ Freezing point [°C]	115 °C
Flash point [°C]	191°C	Solubility in water [% weight]	Insoluble	Partition coefficient Log Pow octanol / water at 20°C	2.64

Packaging

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Specification

Appearance	Orange coloured crystalline powder
Assay	Min 98%
Melting range	116 - 119 °C
Water (by KF)	Max 17%
Identity (IR)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 2237

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H300-H310-H330-H373-H411

Precaution Statement: P260-P264-P273-P280-P284-P301 + P310

PIPERAZINE ANHYDROUS 98% FOR SYNTHESIS

1,4-Diazacyclohexane; Diethylenediamine

Product Code.	02039	Grade	
Purity	98%	CAS No.	110-85-0
Molecular Formula	C4H10N2	Molecular Weight	86.14
H.S.Code	2933.59900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white flakes	Odour	Ammonia odour
pH value	10.8 - 11.8	Melting point/ Freezing point [°C]	108 - 110 °C	Auto-ignition temperature [°C]	340°C
Flash point [°C]	109 °C	Boiling point [°C]	145 - 146 °C	Initial boiling point [°C]	145°C
Final boiling point [°C]	146 °C	Evaporation rate	Negligible	Vapour pressure [20°C]	0.21 hPa at 20 °C
Vapour density	3	Density [g/cm3]	1.1	Solubility in water [% weight]	0.9 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	1.17	Explosion limits - upper [%]	14%	Explosion limits -lower [%]	4%

Packaging

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Specification

Appearance	White to off white flakes
Assay	Min 98%

Melting range	108 - 111 deg C
Water (H ₂ O)	Max 1%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS08

Signal Word: Danger

UN No.: 2579

IMCO Class No.: 8

Packing Group: III

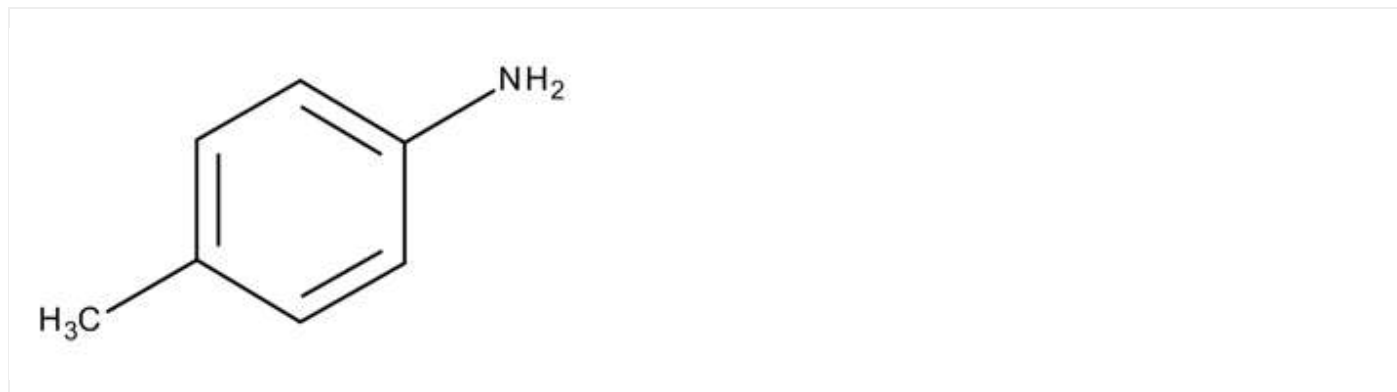
Hazardous Statement: H314-H317-H334-H361fd

Precaution Statement: P261-P280-P305 + P351 + P338-P310

P-TOLUIDINE 99% AR

For the winkler determination of hydroxymethyl furfural. 4-Aminotoluene, 4-Methylaniline

Product Code.	02740	Grade	AR
Purity	99%	CAS No.	106-49-0
Molecular Formula	C7H9N	Molecular Weight	107.16
H.S.Code	2921.43500	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Aromatic odor
pH value	7.8	Melting point/ Freezing point [°C]	42 - 45 °C	Auto-ignition temperature [°C]	482 °C
Flash point [°C]	87 °C	Boiling point [°C]	200 °C	Vapour pressure [20°C]	1 mm Hg @ 2°C
Vapour pressure mm/Hg	1 mm Hg @ 20C	Vapour density	3.9	Density [g/cm3]	0.973
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

Appearance	White to light yellow and faint beige to beige crystals/ crystalline powder becomes colored on exposure to air & light
Purity (by GC)	Min 99%
Melting point	42 - 44 °C

Insoluble matter in dil. HCl	Max 0.01%
Sulphated ash	Max 0.02%
p-Nitrotoluene (CH ₃ C ₆ H ₄ NO ₂)	Max 0.001%
Toluene (C ₆ H ₅ CH ₃)	Max 0.1%
m-Toluidine (CH ₃ C ₆ H ₄ NH ₂)	Max 0.3%
o-Toluidine (CH ₃ C ₆ H ₄ NH ₂)	Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08, GHS09

Signal Word: Danger

UN No.: 3451

IMCO Class No.: 6.1

Packing Group: II

Hazardous Statement: H301-H311-H317-H319-H331-H351-H400

Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

P-TOLUIDINE 99% EXTRA PURE

Product Code.	2740A	Grade	Extra Pure
Purity	99%	CAS No.	106-49-0
Molecular Formula	C7H9N	Molecular Weight	107.16
H.S.Code	2921.43500	Shelf Life	60 Months


Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Aromatic odor
pH value	7.8	Melting point/ Freezing point [°C]	42 - 45 °C	Auto-ignition temperature [°C]	482 °C
Flash point [°C]	87 °C	Boiling point [°C]	200 °C	Vapour pressure [20°C]	1 mm Hg @ 2°C
Vapour pressure mm/Hg	1 mm Hg @ 20C	Vapour density	3.9	Density [g/cm3]	0.973
Solubility in water [% weight]	Insoluble in water				

Specification

Appearance (Color)	Colorless to red
Appearance (Form)	Liquid after melting or solid
Appearance	May discolor to brown on storage
Infrared spectrum	Conforms
Melting point	41°C to 46°C
GC	>=98.5 %

Safety Information and Hazard Symbols


Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 3451 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H301-H311-H317-H319-H331-H351-H400 Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

P-TOLUIDINE HYDROCHLORIDE 99% FOR SYNTHESIS

Water Soluble. 4-Methylaniline hydrochloride

Product Code.	02741	Grade	
Purity	99%	CAS No.	540-23-8
Molecular Formula	C7H10ClN	Molecular Weight	143.62
H.S.Code	2921.43500	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Light brownish powder	Melting point/ Freezing point [°C]	243 - 245 °C
Solubility in water [% weight]	Insoluble in water				

Specification

Appearance	Light brownish flakes/powder
Assay (argentometric)	Min 99%
Melting range	239 -242 °C

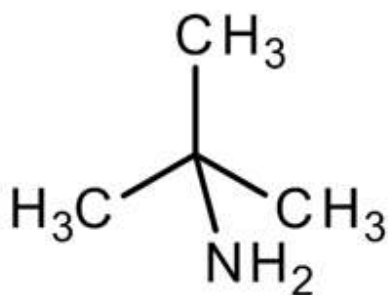
Safety Information and Hazard Symbols

Symbol: GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 2811 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H317-H319-H331-H351-H400 Precaution Statement: P261-P273-P280-P301 + P310-P305 + P351 + P338-P311

TERT-BUTYLAMINE 99% FOR SYNTHESIS

2-Amino-2-methylpropane

Product Code.	00563	Grade	For Synthesis
Purity	99%	CAS No.	75-64-9
Molecular Formula	C4H11N	Molecular Weight	73.14
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	A clear, colorless liquid
Purity (by GC)	Min 99%
Density (d _{20°C/4°C})	0.692 - 0.694 g/ml
Water (H ₂ O)	Max 0.3%
Refractive index (20°C; 589 nm)	1.3774 - 1.3780

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06

Signal Word: Danger

UN No.: 2734

IMCO Class No.: 8,3

Packing Group: I

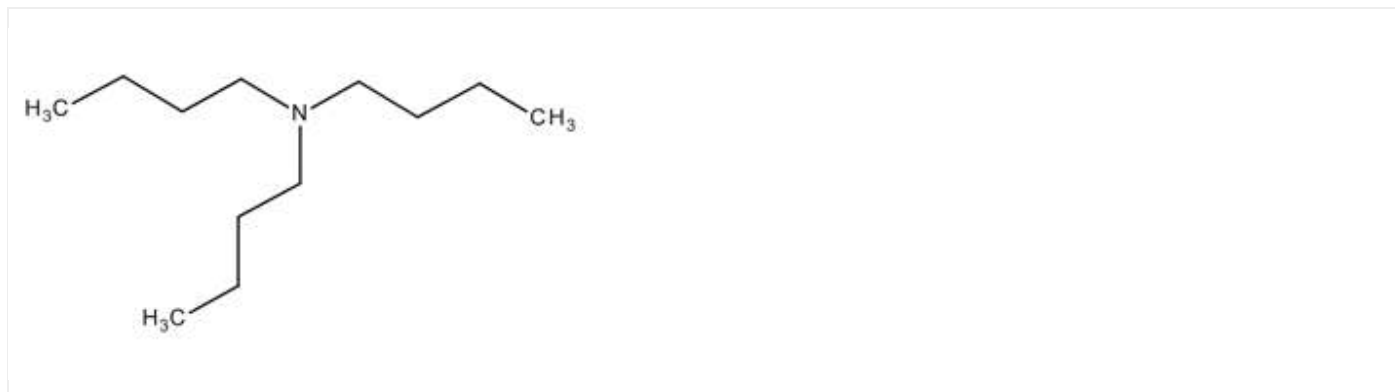
Hazardous Statement: H225-H302-H314-H331

Precaution Statement: P210-P261-P280-P305 + P351 + P338-P310

TRIBUTYLAMINE 99.5% AR

Tri-n-butylamine

Product Code.	02744	Grade	AR
Purity	99.5%	CAS No.	102-82-9
Molecular Formula	C ₁₂ H ₂₇ N	Molecular Weight	185.36
H.S.Code	2921.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Pale yellow	Odour	Amine like
pH value	12	Melting point/ Freezing point [°C]	-70°C	Auto-ignition temperature [°C]	210°C
Flash point [°C]	63°C	Boiling point [°C]	216.5°C	Vapour pressure [20°C]	0.3 mm of Hg (@ 20°C)
Vapour pressure mm/Hg	0.3 mm of Hg (@ 20°C)	Vapour density	6.38	Density [g/cm ³]	0.7782
Solubility in water [% weight]	Sparingly soluble in water	Partition coefficient Log Pow octanol / water at 20°C	4.4 - 4.6	Explosion limits - upper [%]	6%
Explosion limits -lower [%]	1.40%				

Packaging

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Specification

Appearance	Pale yellow liquid with amine odor
Assay	Min 99.5%

Colour scale	Max 100 APHA
Water (H ₂ O)	Max 0.1%
Mono-n-butylamine	Max 0.1%
Di-n-butylamine	Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS09

Signal Word: Danger

UN No.: 2542

IMCO Class No.: 6.1

Packing Group: II

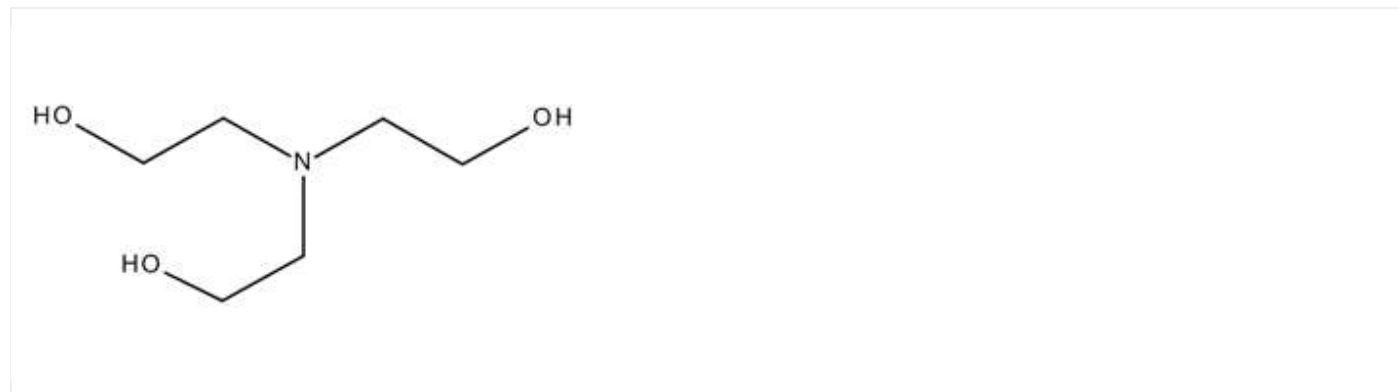
Hazardous Statement: H302-H311-H315-H330-H411

Precaution Statement: P260-P273-P280-P284-P310

TRIETHANOLAMINE 98% EXTRAPURE

Tris(2-hydroxyethyl)amine , Trolamine

Product Code.	02754	Grade	Extrapure
Purity	98%	CAS No.	102-71-6
Molecular Formula	C6H15NO3	Molecular Weight	149.19
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless viscous	Odour	Odorless
pH value	10.5 - 11.5 at 149 g/l at 25 °C	Melting point/ Freezing point [°C]	18 - 21 °C	Flash point [°C]	179 °C
Boiling point [°C]	190 - 193 °C	Initial boiling point [°C]	190°C	Final boiling point [°C]	193 °C
Vapour pressure [20°C]	1 mm Hg (@ 20°C)	Vapour pressure mm/Hg	1 mm Hg (@ 20°C)	Vapour density	5.15
Density [g/cm ³]	1.124	Solubility in water [% weight]	149 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-1
Explosion limits - upper [%]	8.50%	Explosion limits -lower [%]	1.30%		

Packaging

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Specification

Appearance	A clear colorless to pale yellow viscous liquid
Assay	Min 98.0%

pH (15% solution)	10 - 13
Density (d _{20°C/4°C})	1.120 - 1.127 g/ml
Refractive index (20°C; 589 nm)	1.483 - 1.486
Chloride (Cl)	Max 0.01%
Sulphate (SO ₄)	Max 0.01%
Sulphated ash	Max 0.05%
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.001%
Water (H ₂ O)	Max 0.5%

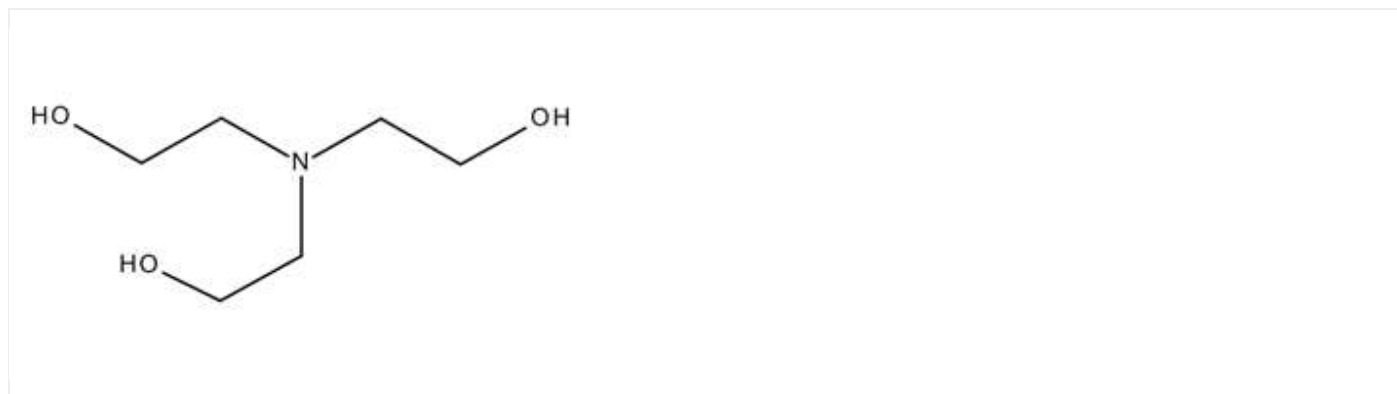
Safety Information and Hazard Symbols

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TRIETHANOLAMINE 99% AR

Confirms to BP/USP Specification Trolamine, Tris(2-hydroxyethyl)amine, Triethylolamine, 2,2',2''-Trihydroxy-triethylamine

Product Code.	02755	Grade	AR
Purity	99%	CAS No.	102-71-6
Molecular Formula	C6H15NO3	Molecular Weight	149.19
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless viscous	Odour	Odorless
pH value	10.5 - 11.5 at 149 g/l at 25 °C	Melting point/ Freezing point [°C]	18 - 21 °C	Flash point [°C]	179 °C
Boiling point [°C]	190 - 193 °C	Initial boiling point [°C]	190°C	Final boiling point [°C]	193 °C
Vapour pressure [20°C]	1 mm Hg (@ 20°C)	Vapour pressure mm/Hg	1 mm Hg (@ 20°C)	Vapour density	5.15
Density [g/cm3]	1.124	Solubility in water [% weight]	149 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-1
Explosion limits - upper [%]	8.50%	Explosion limits -lower [%]	1.30%		

Packaging

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Specification

Appearance	A clear colourless to pale yellow viscous liquid
Assay	Min 99%

Ethanolamine (GC)	Max 0.1%
Diethanolamine (GC)	Max 0.5%
Chloride (Cl)	Max 0.0001%
Sulphate (SO ₄)	Max 0.002%
Heavy metal (as Pb)	Max 0.0001%
Iron (Fe)	Max 0.0001%
Water (H ₂ O)	Max 0.2%
Sulphated ash	Max 0.005%

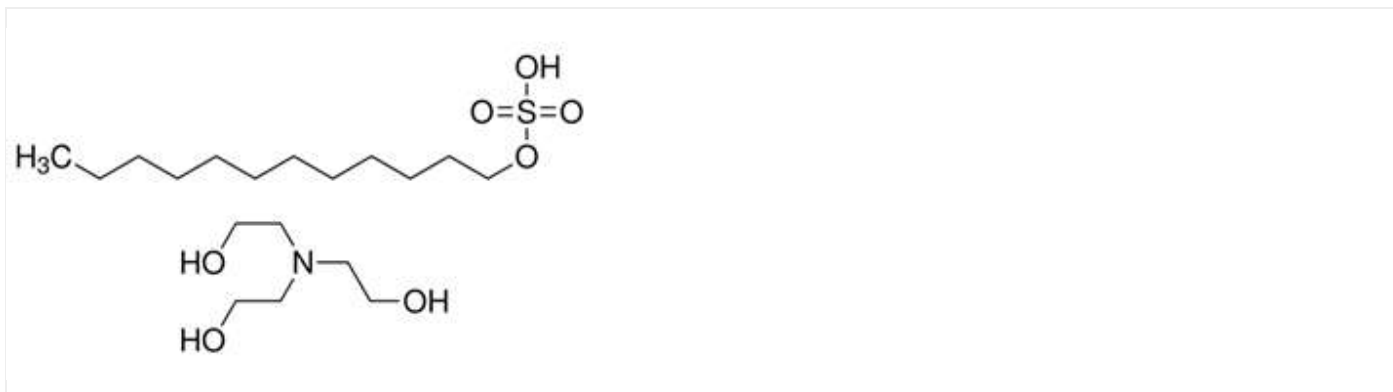
Safety Information and Hazard Symbols

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TRIETHANOLAMINE LAURYL SULPHATE

TRIETHANOLAMINE DODECYL SULPHATE

Product Code.	02757	Grade	
Purity		CAS No.	139-96-8
Molecular Formula	(HOC ₂ H ₄) ₃ NOS(O) ₂ OC ₁₂ H ₂₅	Molecular Weight	0.00
H.S.Code	3402.13000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear yellow	pH value	6.0-7.5
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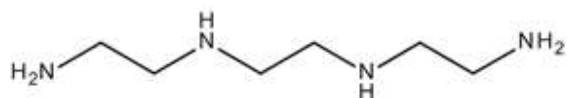
Specification

Appearance	Yellow clear liquid
Active detergent	38 - 40%
Non detergent organic matter	Max 2%
Acetone Insolubles	Max 7%
Free amine	Max 3%
pH	6.0 - 7.5
Cloud point (°C)	Max 0°C

TRIETHYLENETETRAMINE FOR SYNTHESIS

DEH 24, EPH 925

Product Code.	02763	Grade	For Synthesis
Purity		CAS No.	112-24-3
Molecular Formula	C6H18N4	Molecular Weight	146.24
H.S.Code	2921.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Light yellow	Odour	Ammonia like
pH value	10	Melting point/ Freezing point [°C]	-37.2°C	Auto-ignition temperature [°C]	337.8°C
Flash point [°C]	113 °C	Boiling point [°C]	272 °C	Vapour pressure [20°C]	< 0.01 mm Hg @ 20°C
Vapour pressure mm/Hg	< 0.01 mm Hg @ 200C	Vapour density	5	Density [g/cm3]	0.98
Solubility in water [% weight]	Soluble in water				

Packaging

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Specification

Appearance	A clear yellowish liquid
Density (d20°C/4°C)	0.970 - 0.980 g/ml
Refractive index (20°C; 589 nm)	1.4960 to 1.5000

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2259

IMCO Class No.: 8

Packing Group: II

Hazardous Statement: H312-H314-H317-H412

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

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