

Спирты

Технические характеристики

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Ярославль (4852)69-52-93

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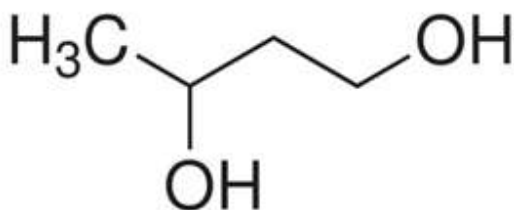
Киргизия +996(312)96-26-47

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

1,3 BUTANEDIOL 99.5% FOR SYNTHESIS

1,3-Butylene glycol

Product Code.	00543	Grade	For Synthesis
Purity	99.5%	CAS No.	107-88-0
Molecular Formula	CH ₃ CH(OH)CH ₂ CH ₂ OH	Molecular Weight	90.12
H.S.Code	2905.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	pH value	6 - 7 at 20 °C
Auto-ignition temperature [°C]	394°C	Flash point [°C]	108 °C	Boiling point [°C]	203 - 204 °C
Initial boiling point [°C]	203°C	Final boiling point [°C]	204 °C	Vapour pressure [20°C]	0.08 hPa at 20 °C
Vapour density	3.11	Density [g/cm ³]	1.005	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	-0.29	Explosion limits -lower [%]	1.90%		

Packaging



Specification

Appearance	Clear colorless viscous liquid
Assay	Min 99.5%
Water (H2O)	Max 0.5%
Free acid (as acetic acid)	Max 0.005%
Specific gravity (at 20°C)	1.004 – 1.007 g/ml

1,4 BUTANEDIOL 99% FOR SYNTHESIS

1,4 Butylene glycol ,(Tetramethylene Glycol)

Product Code.	00544	Grade	For Synthesis
Purity	99%	CAS No.	110-63-4
Molecular Formula	C4H10O2	Molecular Weight	90.12
H.S.Code	2905.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
Melting point/ Freezing point [°C]	16 °C	Boiling point [°C]	230 °C	Vapour density	3.11
Density [g/cm3]	1.017	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.0%
Density (d20°C/4°C)	1.015 - 1.016 g/ml

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H302-H336

Precaution Statement: P261

1-DECANOL 99% FOR SYNTHESIS

Decyl alcohol

Product Code.	00936	Grade	For Synthesis
Purity	99%	CAS No.	112-30-1
Molecular Formula	C10H22O	Molecular Weight	158.29
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Orange odor
Melting point/ Freezing point [°C]	5 - 7 °C	Flash point [°C]	82 °C	Boiling point [°C]	231 °C
Vapour density	5.46	Density [g/cm3]	0.829	Solubility in water [% weight]	Insoluble in water
Partition coefficient Log Pow octanol / water at 20°C	4.4				

Packaging



Specification

Appearance	Clear colourless liquid
Purity (by GC)	Min 99.0%

Density (d20°C/4°C)

0.829 - 0.830 g/ml

Safety Information and Hazard Symbols



Symbol: GHS06, GHS09

Signal Word: Danger

UN No.: 3082

IMCO Class No.: 9

Packing Group: III

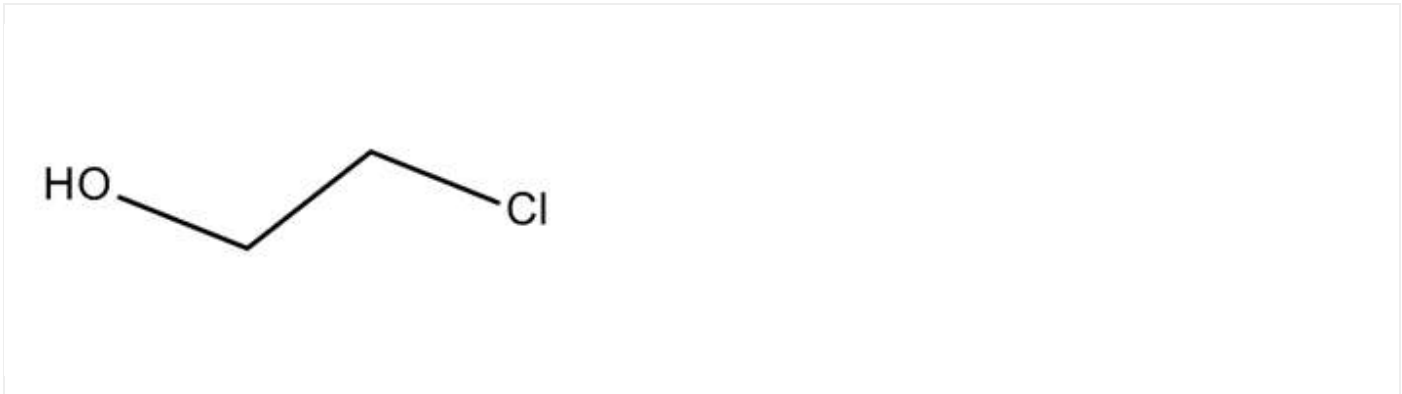
Hazardous Statement: H315-H319-H331-H335-H411

Precaution Statement: P261-P273-P305 + P351 + P338-P311

2-CHLOROETHANOL 99% EXTRA PURE

2-Chloroethanol

Product Code.	01159	Grade	
Purity	99%	CAS No.	107-07-3
Molecular Formula	C2H5ClO	Molecular Weight	80.51
H.S.Code	2905.16900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Sweet pleasant
Melting point/ Freezing point [°C]	-89 °C	Auto-ignition temperature [°C]	425 °C	Flash point [°C]	55 °C
Boiling point [°C]	129 °C	Vapour pressure [20°C]	7 hPa at 20 °C	Vapour density	2.78
Density [g/cm3]	1.2	Solubility in water [% weight]	Easily soluble in cold water	Explosion limits - upper [%]	16%
Explosion limits -lower [%]	5%				

Packaging

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Specification

Appearance	Clear colourless liquid
Assay	Min 99%
Weight/ mL at 20°C	1.199 - 1.203 g
Refractive index (20°C; 589 nm)	1.4400 to1.4430

Safety Information and Hazard Symbols



Symbol: GHS02, GHS06

Signal Word: Danger

UN No.: 1135

IMCO Class No.: 6.1,3

Packing Group: I

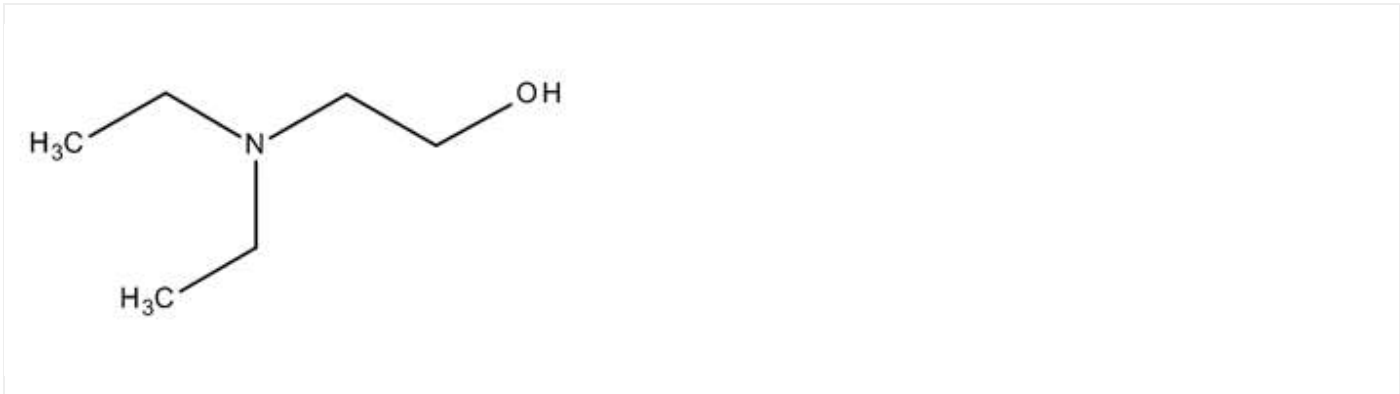
Hazardous Statement: H226-H300-H310-H330

Precaution Statement: P260-P264-P280-P284-P301 + P310-P302 + P350

2-DIETHYLAMINOETHANOL 99% FOR SYNTHESIS

2-Diethylaminoethanol

Product Code.	00998	Grade	
Purity	98%	CAS No.	100-37-8
Molecular Formula	C6H15NO	Molecular Weight	117.19
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	10
Melting point/ Freezing point [°C]	-70°C	Auto-ignition temperature [°C]	320°C	Flash point [°C]	50 °C
Boiling point [°C]	158 - 161 °C	Initial boiling point [°C]	158°C	Final boiling point [°C]	161 °C
Vapour pressure [20°C]	1 hPa at 20 °C	Vapour density	4.05	Solubility in water [% weight]	Soluble in water
Partition coefficient Log Pow octanol / water at 20°C	0.3	Explosion limits - upper [%]	11.70%	Explosion limits -lower [%]	1.40%

Packaging

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Specification

Appearance	Clear liquid
Assay	Min 99%
Colour scale	Max 50 APHA
Density (d20°C/4°C)	0.883 - 0.885

Water (by KF)

Max 0.5%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 2686

IMCO Class No.: 8,3

Packing Group: II

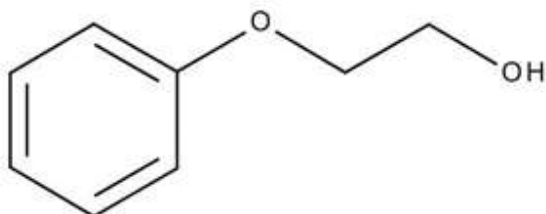
Hazardous Statement: H226-H302-H312-H314-H317-H332

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

2-PHENOXYETHANOL 99% FOR SYNTHESIS

Ethylene glycol monophenyl ether; PHE-G; PHE-S; PHE; PhG; Phenylglycol ; phenyl cellosolve

Product Code.	01981	Grade	For Synthesis
Purity	99%	CAS No.	122-99-6
Molecular Formula	C8H10O2	Molecular Weight	138.17
H.S.Code	2909.49000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Faint aromatic odor
pH value	7 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	11 - 13 °C	Auto-ignition temperature [°C]	430°C
Flash point [°C]	121 °C	Boiling point [°C]	237 °C	Vapour pressure mm/Hg	< 1 mm Hg @250C
Vapour density	4.77	Density [g/cm3]	1.107	Solubility in water [% weight]	Partially soluble in water
Partition coefficient Log Pow octanol / water at 20°C	1.13	Viscosity at 40°C [mm2/s]	29 mm2/s 20°C	Explosion limits - upper [%]	1.40%
Explosion limits -lower [%]	9%				

Packaging

Specification

Appearance	A clear colorless liquid
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Purity (by GC)	Min 99.0%
Density (d20°C/4°C)	1.107 - 1.108 g/ml
Peroxide (as H2O2)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H302-H319

Precaution Statement: P305 + P351 + P338

3-AMINO-1-PROPANOL 99% FOR SYNTHESIS

3-Aminopropyl alcohol; Propanolamine ; Liquid, d. 0.983

Product Code.	00167	Grade	For Synthesis
Purity	99%	CAS No.	156-87-6
Molecular Formula	C3H9NO	Molecular Weight	75.11
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	Clear Colorless to light yellow liquid
Purity (by GC)	Min 99.0%
Identity (IR)	Passes test
Density (at 20°C)	0.986-0.988 g/ml

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2735

IMCO Class No.: 8

Packing Group: II

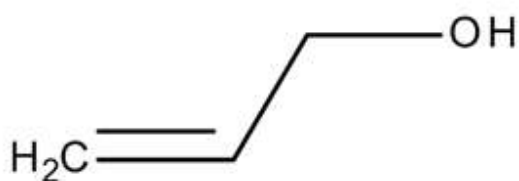
Hazardous Statement: H302-H314

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

ALLYL ALCOHOL 99% FOR SYNTHESIS

2-Propen-1-ol ; Liquid, d. 0.85

Product Code.	00107	Grade	For Synthesis
Purity	99%	CAS No.	107-18-6
Molecular Formula	C3H6O	Molecular Weight	58.08
H.S.Code	2905.29000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless to pale yellow liquid.	Odour	Pungent mustard
Melting point/ Freezing point [°C]	-129 °C	Auto-ignition temperature [°C]	378°C	Flammability (solid, gas)	Flammable
Flash point [°C]	22 °C	Boiling point [°C]	96 - 98 °C	Initial boiling point [°C]	96 °C
Final boiling point [°C]	98 °C	Vapour pressure [20°C]	31.7 hPa at 20 °C	Vapour density	2.01
Density [g/cm3]	0.854	Solubility in water [% weight]	Easily soluble in cold water	Explosion limits - upper [%]	18%
Explosion limits -lower [%]	2.50%				

Packaging



Specification

Appearance	Clear colorless to pale yellow liquid.
Purity (by GC)	Min 99.0%
Density (d20°C/4°C)	0.851-0.852
Refractive index (20°C; 589 nm)	1.4115 to 1.4145
Water (H2O)	Max 0.2%

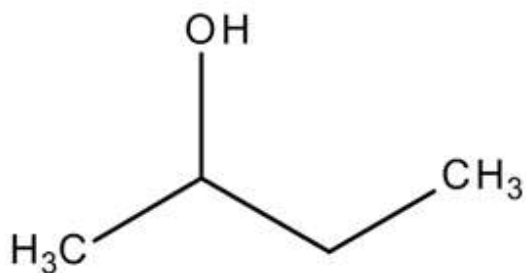
Safety Information and Hazard Symbols


Symbol: GHS02, GHS06, GHS09 Signal Word: Danger UN No.: 1098 IMCO Class No.: 6.1,3 Packing Group: I Hazardous Statement: H225-H301-H311-H315-H319-H331-H335-H400 Precaution Statement: P210-P261-P273-P280-P301 + P310-P305 + P351 + P338

BUTAN-2-OL 99.5% AR (SEC-BUTYL ALCOHOL)

BUTAN-2-OL; 2-BUTANOL

Product Code.	00557	Grade	AR
Purity	99.5%	CAS No.	78-92-2
Molecular Formula	C ₄ H ₁₀ O	Molecular Weight	74.12
H.S.Code	2905.14900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	sweet, fruity odor
Odour threshold	3.2 ppm	pH value	7	Melting point/ Freezing point [°C]	-115 °C
Auto-ignition temperature [°C]	405 °C	Flammability (solid, gas)	Flammable	Flash point [°C]	24 °C
Boiling point [°C]	99.5°C	Vapour pressure mm/Hg	12 mm Hg @ 20C	Vapour density	2.6
Density [g/cm ³]	0.808	Solubility in water [% weight]	12.5 g/100 ml @ 20°C	Viscosity at 40°C [mm ² /s]	3.5 cps @ 20 deg C
Explosion limits - upper [%]	9.80%	Explosion limits -lower [%]	1.70%		

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.5%
Di-n-butyl ether [(C ₄ H ₉) ₂ O]	Max 0.2%
Calcium (Ca)	Max 0.00005%
Chromium (Cr)	Max 0.000002%
Cobalt (Co)	Max 0.000002%
Copper (Cu)	Max 0.000002%
Iron (Fe)	Max 0.00001%
Acidity (as CH ₃ COOH)	Max 0.003%
Colour scale	Max 10 Hazen Unit
Water (H ₂ O)	Max 0.2%
Alkalinity	Max 0.02 ml N%
Non volatile matter	Max 0.001%
Butanone (CH ₃ CH ₂ COCH ₃)	Max 0.1%
2-Methyl-2-propanol (GC)	Max 0.1%
Propan-2-ol [(CH ₃) ₂ CHOH]	Max 0.2%
Aluminium (Al)	Max 0.00005%
Barium (Ba)	Max 0.00001%
Cadmium (Cd)	Max 0.000005%
Lead (Pb)	Max 0.000005%
Magnesium (Mg)	Max 0.000005%
Manganese (Mn)	Max 0.000002%
Nickel (Ni)	Max 0.000002%
Potassium (K)	Max 0.00001%
Sodium (Na)	Max 0.00005%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Warning

UN No.: 1120

IMCO Class No.: 3

Packing Group: III

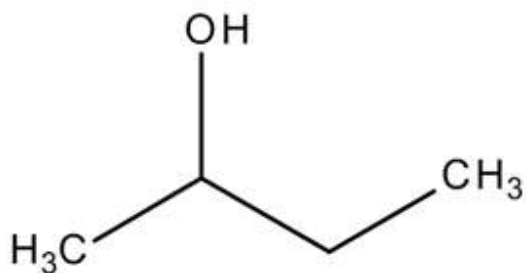
Hazardous Statement: H226-H319-H335-H336

Precaution Statement: P261-P305 + P351 + P338

BUTAN-2-OL 99% FOR SYNTHESIS

2-BUTANOL;BUTAN-2-OL

Product Code.	00556	Grade	For Synthesis
Purity	99%	CAS No.	78-92-2
Molecular Formula	C4H10O	Molecular Weight	74.12
H.S.Code	2905.14900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	sweet, fruity odor
Odour threshold	3.2 ppm	pH value	7	Melting point/ Freezing point [°C]	-115 °C
Auto-ignition temperature [°C]	405 °C	Flammability (solid, gas)	Flammable	Flash point [°C]	24 °C
Boiling point [°C]	99.5°C	Vapour pressure mm/Hg	12 mm Hg @ 20C	Vapour density	2.6
Density [g/cm3]	0.808	Solubility in water [% weight]	12.5 g/100 ml @ 20°C	Viscosity at 40°C [mm2/s]	3.5 cps @ 20 deg C
Explosion limits - upper [%]	9.80%	Explosion limits -lower [%]	1.70%		

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.0%
Water (H2O)	Max 0.2%

Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 1120 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H319-H335-H336 Precaution Statement: P261-P305 + P351 + P338

CETOSTEARYL ALCOHOL EXTRAPURE

Confirms USP specification

Product Code.	00729	Grade	
Purity	Min 90%	CAS No.	8005-44-5
Molecular Formula		Molecular Weight	0.00
H.S.Code	3823.70900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White pellets	Odour	Odorless
Melting point/ Freezing point [°C]	48°C	Critical temperature [°C]	487.85°C	Auto-ignition temperature [°C]	254°C
Flash point [°C]	110°C	Vapour density	9.5	Density [g/cm3]	0.82
Solubility in water [% weight]	Insoluble in water				

Packaging

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Specification

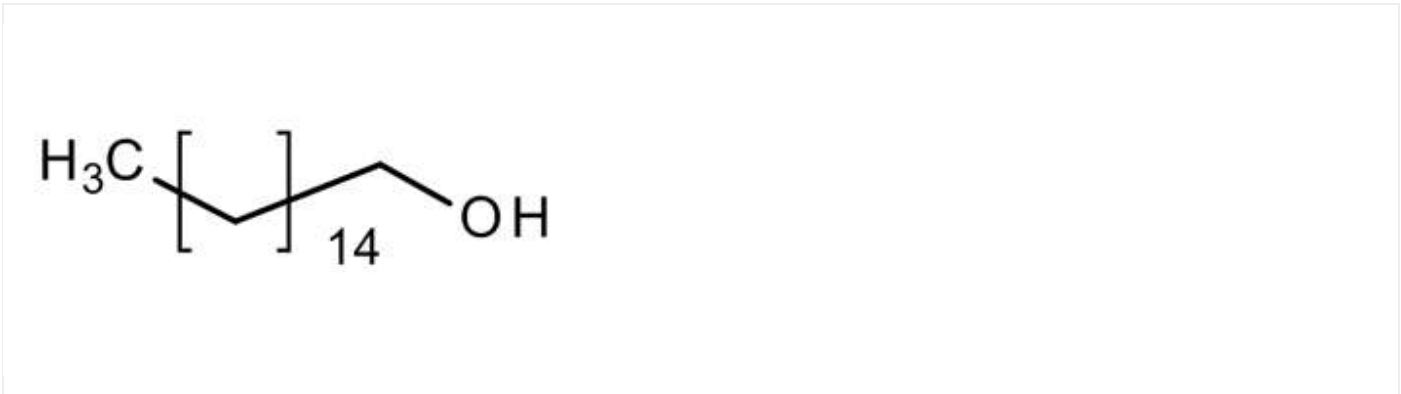
Appearance	White pellets
Melting point	48 - 52 deg C
Acidity	Max 1 ml N%

Safety Information and Hazard Symbols

CETYL ALCOHOL 98% EXTRAPURE

Confirming to pharma grade. 1-Hexadecanol; Alcohol cetylicus; Palmityl alcohol

Product Code.	00731	Grade	
Purity	95%	CAS No.	36653-82-4
Molecular Formula	C16H34O	Molecular Weight	242.25
H.S.Code	2905.17000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White flakes	Melting point/ Freezing point [°C]	49 - 50 °C
Flash point [°C]	113 °C	Boiling point [°C]	190 °C	Vapour pressure mm/Hg	< 0.01mm Hg at 43 °C
Vapour density	8.37	Density [g/cm3]	0.818	Explosion limits - upper [%]	8%
Explosion limits -lower [%]	1%				

Packaging

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Specification

Appearance	A white flakes
Assay	Min 98%
Melting point	48 - 52 deg C

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

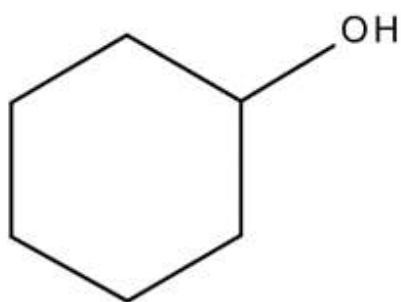
Hazardous Statement: H315-H319-H413

Precaution Statement: P305 + P351 + P338

CYCLOHEXANOL (FOR SYNTHESIS)

Adronal; Cyclohexyl alcohol; Hexalin; Hexahydrophenol; Hydroxycyclohexane

Product Code.	00910	Grade	
Purity	99%	CAS No.	108-93-0
Molecular Formula	C6H12O	Molecular Weight	100.16
H.S.Code	2906.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Camphor / Menthol odor
pH value	6.5 at 40 g/l at 20 °C	Melting point/ Freezing point [°C]	20 - 22 °C	Flash point [°C]	68 °C
Boiling point [°C]	160 - 161 °C	Initial boiling point [°C]	160°C	Final boiling point [°C]	161 °C
Evaporation rate	0.08	Vapour pressure mm/Hg	1.31 mm Hg at 25 °C	Vapour density	4.01
Density [g/cm3]	0.948	Solubility in water [% weight]	4 g/100 gm water @ 200C	Partition coefficient Log Pow octanol / water at 20°C	1.25 at 25 °C
Explosion limits - upper [%]	12.25%	Explosion limits -lower [%]	1.25%		

Packaging

Specification

Appearance	A clear colorless liquid
Assay	Min 99%

Weight/ mL at 20°C	About 0.95 g/ml
Freezing point	19 - 24 deg C
Refractive index (20°C; 589 nm)	1.465 - 1.467
Water (H2O)	Max 0.2%
Cyclohexanone	Max 1.0%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

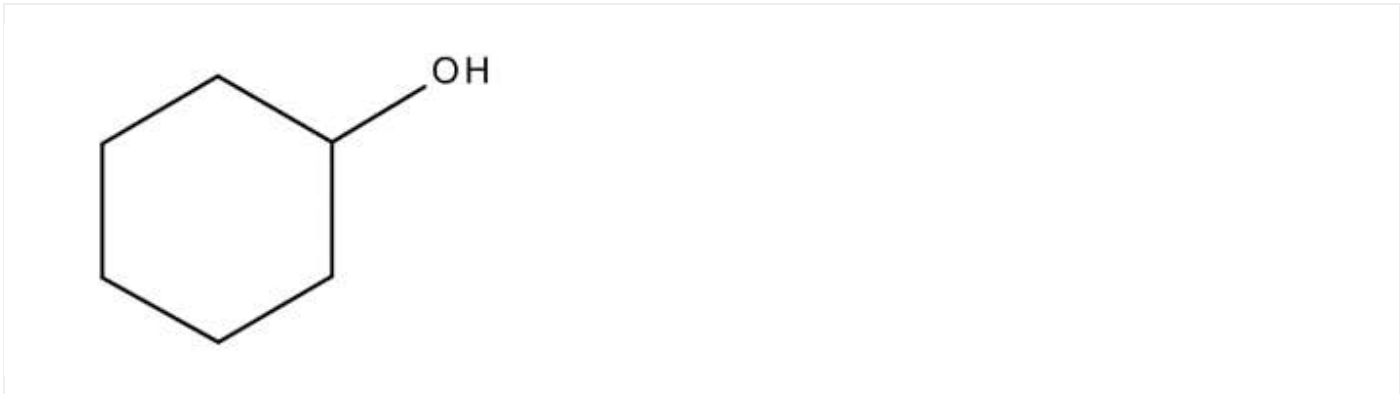
Hazardous Statement: H302-H315-H332-H335

Precaution Statement: P261

CYCLOHEXANOL 99.5% AR

Adronal; Cyclohexyl alcohol; Hexalin; Hexahydrophenol; Hydroxycyclohexane

Product Code.	00911	Grade	
Purity	99.5%	CAS No.	108-93-0
Molecular Formula	C6H12O	Molecular Weight	100.16
H.S.Code	2906.12000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Camphor / Menthol odor
pH value	6.5 at 40 g/l at 20 °C	Melting point/ Freezing point [°C]	20 - 22 °C	Flash point [°C]	68 °C
Boiling point [°C]	160 - 161 °C	Initial boiling point [°C]	160°C	Final boiling point [°C]	161 °C
Evaporation rate	0.08	Vapour pressure mm/Hg	1.31 mm Hg at 25 °C	Vapour density	4.01
Density [g/cm3]	0.948	Solubility in water [% weight]	4 g/100 gm water @ 200C	Partition coefficient Log Pow octanol / water at 20°C	1.25 at 25 °C
Explosion limits - upper [%]	12.25%	Explosion limits -lower [%]	1.25%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99.5%

Weight/ mL at 20°C	About 0.95%
Freezing point	20 - 22 deg C
Refractive index (20°C; 589 nm)	1.465 - 1.467
Cyclohexanone	Max 0.5%

Safety Information and Hazard Symbols

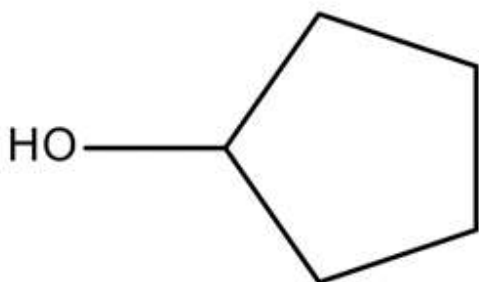


Symbol: GHS07
 Signal Word: Warning
 Hazardous Statement: H302-H315-H332-H335
 Precaution Statement: P261

CYCLOPENTANOL 99% FOR SYNTHESIS

Cyclopentyl alcohol ; (Hydroxycyclopentane)

Product Code.	00918	Grade	
Purity	99%	CAS No.	96-41-3
Molecular Formula	C5H10O	Molecular Weight	86.13
H.S.Code	2906.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pleasant
Melting point/ Freezing point [°C]	-19 °C	Auto-ignition temperature [°C]	375°C	Flammability (solid, gas)	Flammable
Flash point [°C]	51 °C	Boiling point [°C]	139 - 140 °C	Initial boiling point [°C]	139 °C
Final boiling point [°C]	140 °C	Vapour density	2.97	Density [g/cm3]	0.9478
Solubility in water [% weight]	Slightly soluble in water				

Packaging

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Specification

Appearance	A clear colourless liquid
Assay (GC area %)	Min 99%
Density (d20°C/4°C)	0.946 - 0.947

Safety Information and Hazard Symbols



Symbol: GHS02

Signal Word: Warning

UN No.: 2244

IMCO Class No.: 3

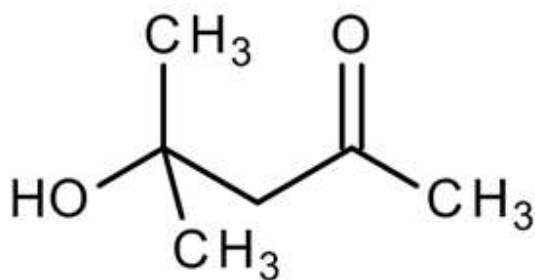
Packing Group: III

Hazardous Statement: H226

DIACETONE ALCOHOL 98% FOR SYNTHESIS

4-Hydroxy-4-methyl-2-pentanone

Product Code.	00944	Grade	For Synthesis
Purity	98%	CAS No.	123-42-2
Molecular Formula	C6H12O2	Molecular Weight	116.16
H.S.Code	2914.40000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colourless to Light yellow	Odour	Faint pleasant odor
Melting point/ Freezing point [°C]	-44°C	Flammability (solid, gas)	Flammable	Flash point [°C]	58 °C
Boiling point [°C]	166 °C	Evaporation rate	0.14	Vapour pressure [20°C]	0.95 @ 2°C
Vapour pressure mm/Hg	0.95 @ 20C	Vapour density	4	Density [g/cm3]	4
Relative density, gas (air=1)	4.01	Solubility in water [% weight]	Miscible in water	Explosion limits - upper [%]	6.90%
Explosion limits -lower [%]	1.80%				

Packaging

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Specification

Appearance	Clear colorless to light yellow liquid
Assay	Min 98.0%
Density (d20°C/4°C)	0.937 - 0.938 g/ml

Refractive index (20°C; 589 nm)

1.4220 to 1.4250

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Warning

UN No.: 1148

IMCO Class No.: 3

Packing Group: III

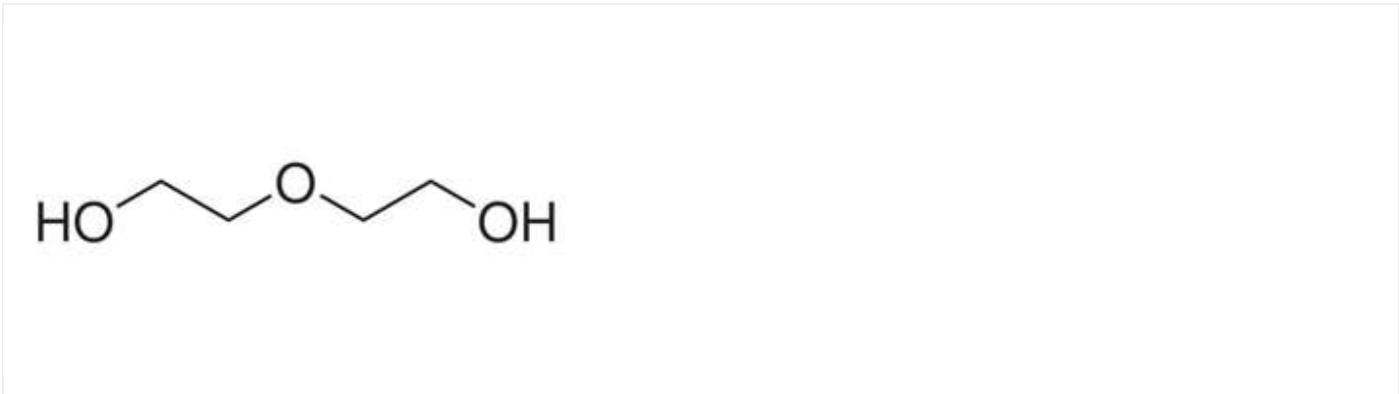
Hazardous Statement: H226-H319

Precaution Statement: P305 + P351 + P338

DIETHYLENE GLYCOL 98.5% FOR SYNTHESIS

Digol

Product Code.	00988	Grade	For Synthesis
Purity	98.5%	CAS No.	111-46-6
Molecular Formula	O(CH2.CH2OH)2	Molecular Weight	106.12
H.S.Code	2909.41000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
pH value	5 - 8 at 500 g/l at 20 °C	Melting point/ Freezing point [°C]	-10 °C	Auto-ignition temperature [°C]	372°C
Flammability (solid, gas)	Flammable	Flash point [°C]	143 °C	Boiling point [°C]	245 °C
Evaporation rate	37.5	Vapour pressure [20°C]	0.04 hPa (20 °C)	Vapour density	3.66
Density [g/cm3]	1.118 g/mL at 25 °C	Solubility in water [% weight]	Infinitely soluble	Explosion limits - upper [%]	12.30%
Explosion limits -lower [%]	2%				

Packaging

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Specification

Appearance	Clear colorless viscous liquid
Purity (by GC)	Min 98.5%
Weight/ mL at 20°C	1.115 - 1.118 g/ml

Refractive index (20°C; 589 nm)

1.446 - 1.448

Safety Information and Hazard Symbols



Symbol: GHS07

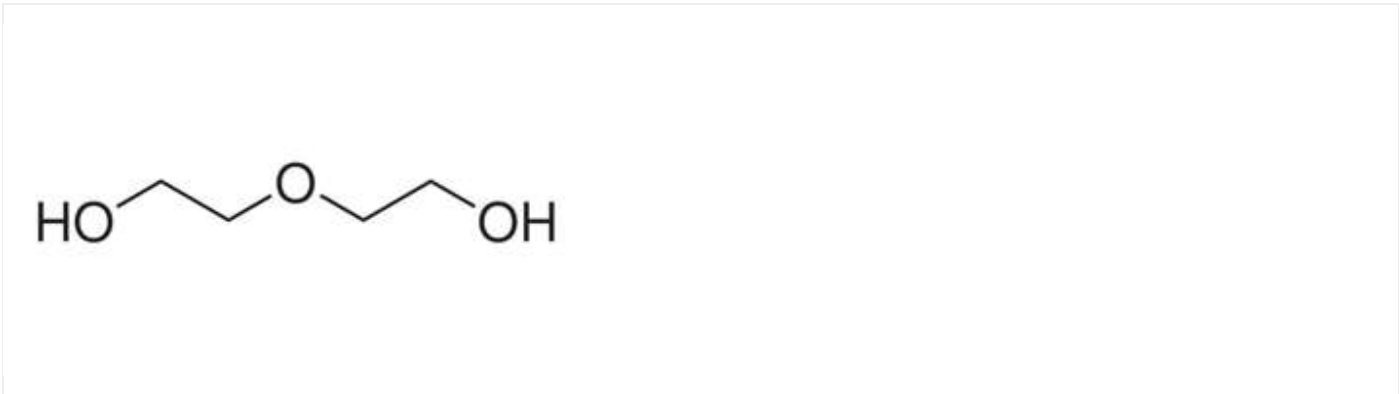
Signal Word: Warning

Hazardous Statement: H302

DIETHYLENE GLYCOL 99% AR

Digol

Product Code.	00989	Grade	
Purity	99%	CAS No.	111-46-6
Molecular Formula	O(CH2.CH2OH)2	Molecular Weight	106.12
H.S.Code	2909.41000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
pH value	5 - 8 at 500 g/l at 20 °C	Melting point/ Freezing point [°C]	-10 °C	Auto-ignition temperature [°C]	372°C
Flash point [°C]	143 °C	Boiling point [°C]	245 °C	Vapour pressure [20°C]	0.04 hPa (20 °C)
Vapour density	3.66	Density [g/cm3]	1.118 g/mL at 25 °C	Solubility in water [% weight]	Infinitely soluble
Explosion limits - upper [%]	12.30%	Explosion limits -lower [%]	2%		

Packaging

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Specification

Appearance	Clear colorless viscous liquid
Assay	Min 99%
Weight/ mL at 20°C	1.115 - 1.117 g

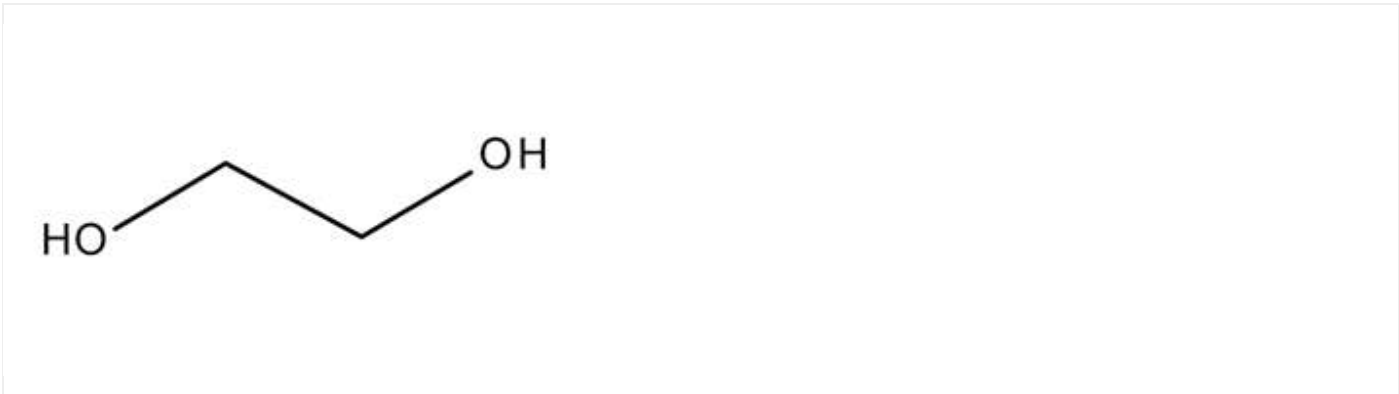
Refractive index (20°C; 589 nm)	1.446 - 1.447
Water (H2O)	Max 0.2%
Sulphated ash	Max 0.01%
Copper (Cu)	Max 0.00005%
Iron (Fe)	Max 0.00005%
Lead (Pb)	Max 0.00005%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

ETHANEDIOL 99.5% AR (ETHYLENE GLYCOL)
(Ethanediol) (MEG)

Product Code.	01174	Grade	AR
Purity	99.5%	CAS No.	107-21-1
Molecular Formula	C2H6O2	Molecular Weight	62.07
H.S.Code	2905.31000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear syrupy	Odour	Odorless
Melting point/ Freezing point [°C]	-13 °C	Auto-ignition temperature [°C]	398°C	Flash point [°C]	111 °C
Boiling point [°C]	196 - 198 °C	Initial boiling point [°C]	196°C	Final boiling point [°C]	198 °C
Evaporation rate	1	Vapour pressure [20°C]	0.11 hPa at 20 °C	Vapour density	2.14
Density [g/cm3]	1.113 g/mL at 25 °C	Solubility in water [% weight]	completely miscible	Partition coefficient Log Pow octanol / water at 20°C	-1.36
Explosion limits - upper [%]	15.30%	Explosion limits -lower [%]	3.20%		

Packaging

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Specification

Appearance	A clear very hygroscopic syrupy liquid
Purity (by GC)	Min 99.5%
Weight/ mL at 20°C	1.113 - 1.115 g/ml

Refractive index (20°C; 589 nm)	1.431 - 1.433
Colour scale	Max 10 Hazen
Formaldehyde (HCHO)	Max 0.005%
Substance reducing KMnO4 (as O)	Max 0.0003%
Acidity (as CH3COOH)	Max 0.001%
Boiling Point	196.5 to 198.5°C
Sulphated ash	Max 0.005%
Chloride (Cl)	Max 0.00002%
Iron (Fe)	Max 0.0001%
Water (H2O)	Max 0.1%

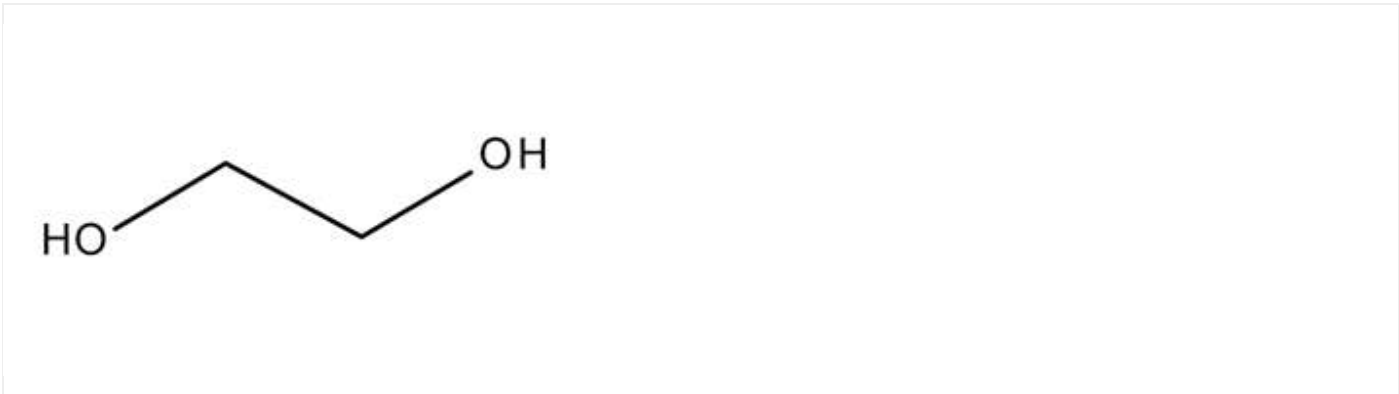
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

ETHANEDIOL 99% FOR SYNTHESIS (ETHYLENE GLYCOL)

Ethanediol

Product Code.	01173	Grade	
Purity	97%	CAS No.	107-21-1
Molecular Formula	C2H6O2	Molecular Weight	62.07
H.S.Code	2905.31000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear syrupy	Odour	Odorless
Melting point/ Freezing point [°C]	-13 °C	Auto-ignition temperature [°C]	398°C	Flash point [°C]	111 °C
Boiling point [°C]	196 - 198 °C	Initial boiling point [°C]	196°C	Final boiling point [°C]	198 °C
Evaporation rate	1	Vapour pressure [20°C]	0.11 hPa at 20 °C	Vapour density	2.14
Density [g/cm3]	1.113 g/mL at 25 °C	Solubility in water [% weight]	completely miscible	Partition coefficient Log Pow octanol / water at 20°C	-1.36
Explosion limits - upper [%]	15.30%	Explosion limits -lower [%]	3.20%		

Packaging

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Specification

Appearance	A clear very hygroscopic syrupy liquid
Assay	Min 99%
Weight/ mL at 20°C	1.112 - 1.115 g

Chloride (Cl)	Max 0.0002%
Iron (Fe)	Max 0.0002%
Water (H2O)	Max 0.3%

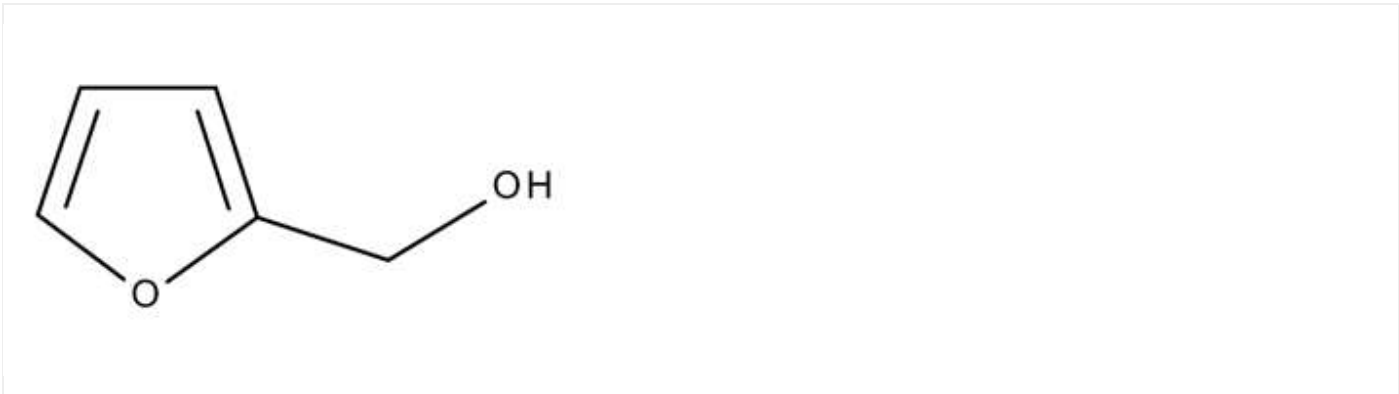
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

FURFURYL ALCOHOL 98% FOR SYNTHESIS

2-(Hydroxymethyl)furan

Product Code.	01266	Grade	
Purity	98%	CAS No.	98-00-0
Molecular Formula	C5H6O2	Molecular Weight	98.10
H.S.Code	2932.13000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Burning
Odour threshold	8 ppm	Melting point/ Freezing point [°C]	-29 °C	Auto-ignition temperature [°C]	490°C
Flash point [°C]	65°C	Boiling point [°C]	170 °C	Vapour pressure [20°C]	0.1 kPa (@ 20°C)
Vapour density	3.38	Density [g/cm3]	1.1296	Solubility in water [% weight]	Soluble
Partition coefficient Log Pow octanol / water at 20°C	0.3	Explosion limits - upper [%]	16.30%	Explosion limits -lower [%]	1.80%

Packaging

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Specification

Appearance	Clear yellow coloured liquid
Assay	Min 98%
Density (d20°C/4°C)	1.131 - 1.133
Water (H2O)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS06, GHS08

Signal Word: Danger

UN No.: 2874

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H302-H312-H319-H331-H335-H351-H373

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

ISO-AMYL ALCOHOL (FOR MOLECULAR BIOLOGY)

Product Code.	00258	Grade	
Purity	Min. 98.5%	CAS No.	123-51-3
Molecular Formula	C5H12O	Molecular Weight	88.15
H.S.Code	29051990.00000	Shelf Life	

Physical Properties

Packaging



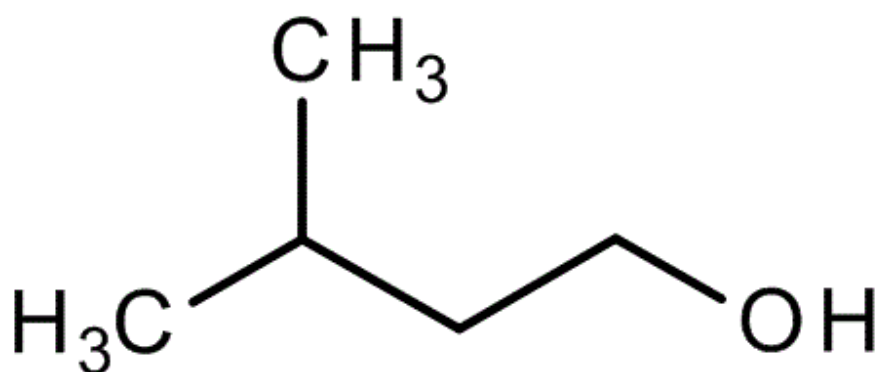
Specification

Safety Information and Hazard Symbols

ISO-AMYL ALCOHOL 98% EXTRAPURE

3-Methyl-1-butanol, Isopentyl alcohol

Product Code.	00256	Grade	Extrapure
Purity	98%	CAS No.	123-51-3
Molecular Formula	C ₅ H ₁₂ O	Molecular Weight	88.15
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	5.6 at 25 g/l at 20 °C
Melting point/ Freezing point [°C]	-117 °C	Flash point [°C]	43 °C	Boiling point [°C]	130 °C
Vapour pressure [20°C]	3 hPa at 20 °C	Vapour density	3.04	Density [g/cm3]	0.810
Relative density, gas (air=1)	0.809	Partition coefficient Log Pow octanol / water at 20°C	1.28	Explosion limits - upper [%]	9.00%
Explosion limits -lower [%]	1.20%				

Packaging



Specification

Appearance	Clear liquid with color not more than 20 APHA
Purity (by GC)	Min 98%
Water (H ₂ O)	Max 0.5%
Density (d _{20°C/4°C})	0.810 - 0.813 g/ml
Non volatile matter	Max 0.01%

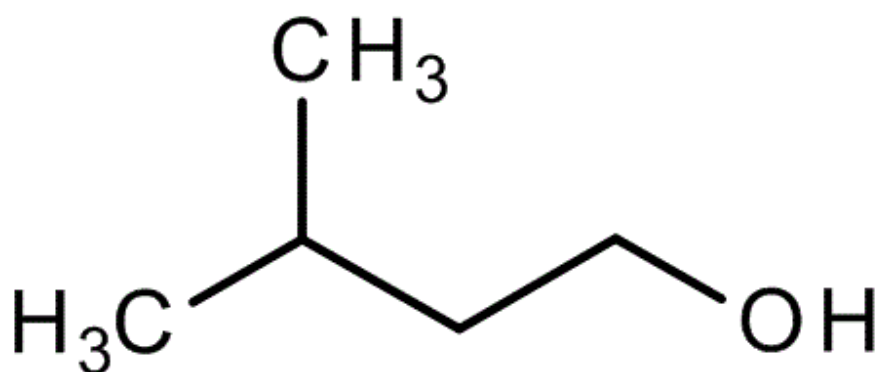
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 1105 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H332-H335 Precaution Statement: P261

ISO-AMYL ALCOHOL 99% AR

3-Methyl-1-butanol, Isopentyl alcohol

Product Code.	00257	Grade	AR
Purity	99%	CAS No.	123-51-3
Molecular Formula	C ₅ H ₁₂ O	Molecular Weight	88.15
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	pH value	5.6 at 25 g/l at 20 °C
Melting point/ Freezing point [°C]	-117 °C	Flash point [°C]	43 °C	Boiling point [°C]	130 °C
Vapour pressure [20°C]	3 hPa at 20 °C	Vapour density	3.04	Density [g/cm ³]	0.801
Relative density, gas (air=1)	0.809	Partition coefficient Log Pow octanol / water at 20°C	1.28	Explosion limits - upper [%]	9.00%
Explosion limits -lower [%]	1.20%				

Packaging



Specification

Appearance	Clear colorless liquid
Total assay of isomers	Min 99%
Free acid (as acetic acid)	Max 0.005%
Density (d ₂₀ °C/4°C)	0.810-0.812 g/ml
Furfural	Passes test
Substance discoloured by H ₂ SO ₄	Passes test
Non volatile matter	Max 0.01%
Water (H ₂ O)	Max 0.2%

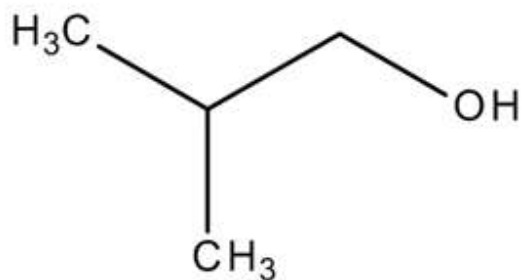
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 1105 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H332-H335 Precaution Statement: P261

ISO-BUTANOL 98.5% FOR SYNTHESIS

iso-Butanol, 2-Methyl propan-1-ol

Product Code.	00554	Grade	For Synthesis
Purity	98.5%	CAS No.	78-83-1
Molecular Formula	C4H10O	Molecular Weight	74.12
H.S.Code	2905.14900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Sweet-musty odor
Odour threshold	40 ppm	Melting point/ Freezing point [°C]	-108°C	Critical temperature [°C]	274.6°C
Auto-ignition temperature [°C]	415°C	Flammability (solid, gas)	Flammable	Flash point [°C]	28°C
Boiling point [°C]	108°C	Evaporation rate	0.8	Vapour pressure [20°C]	1.2 kPa (@ 20°C)
Vapour density	2.56	Density [g/cm3]	0.806	Solubility in water [% weight]	9.5g/100ml water @ 20C
Partition coefficient Log Pow octanol / water at 20°C	0.8	Explosion limits - upper [%]	10.60%	Explosion limits -lower [%]	1.70%

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 98.5%
Free acid (as C ₄ H ₈ O ₂)	Max 0.005%
Isobutyraldehyde	Max 0.03%
Acetone (CH ₃ .CO.CH ₃)	Max 0.02%
Water (H ₂ O)	Max 0.2%
Density (d ₂₀ °C/4°C)	0.801 - 0.802 g/ml

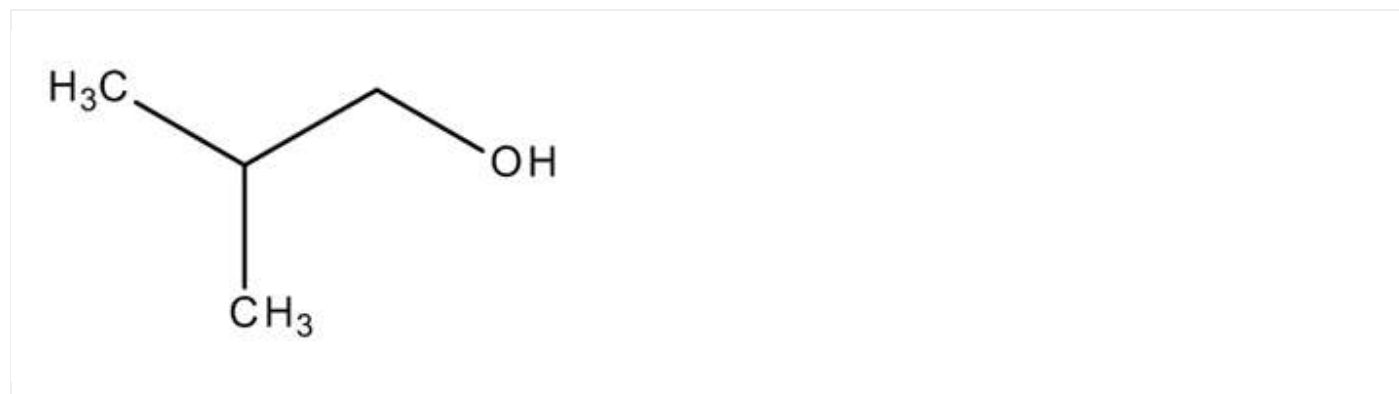
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 1212 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H315-H318-H335-H336 Precaution Statement: P261-P280-P305 + P351 + P338

ISO-BUTANOL 99% AR

iso-BUTANOL, 2-Methyl propan-1-ol

Product Code.	00555	Grade	AR
Purity	99%	CAS No.	78-83-1
Molecular Formula	C4H10O	Molecular Weight	74.12
H.S.Code	2905.14900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Sweet-musty odor
Odour threshold	40 ppm	Melting point/ Freezing point [°C]	-108°C	Critical temperature [°C]	274.6°C
Auto-ignition temperature [°C]	415°C	Flammability (solid, gas)	Flammable	Flash point [°C]	28°C
Boiling point [°C]	108°C	Evaporation rate	0.8	Vapour pressure [20°C]	1.2 kPa (@ 20°C)
Vapour density	2.56	Density [g/cm3]	0.806	Solubility in water [% weight]	9.5g/100ml water @ 20C
Partition coefficient Log Pow octanol / water at 20°C	0.8	Explosion limits - upper [%]	10.60%	Explosion limits -lower [%]	1.70%

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.0%
Weight/ mL at 20°C	0.801 - 0.802 g/ml
Refractive index (20°C; 589 nm)	1.395 - 1.396
Insoluble matter in water	Passes test
Water (H ₂ O)	Max 0.1%
Acidity (as C ₃ H ₇ COOH)	Max 0.002%
Non volatile matter	Max 0.002%
Aldehydes and ketones (as C ₃ H ₇ CHO)	Max 0.015%
Copper (Cu)	Max 0.0001%
Iron (Fe)	Max 0.0001%
Lead (Pb)	Max 0.0001%

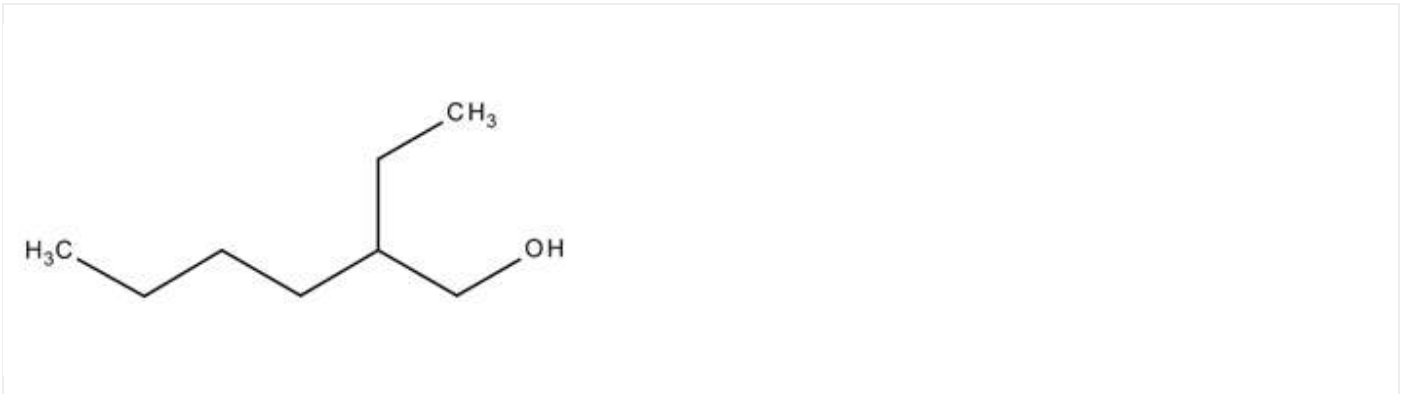
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 1212 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H315-H318-H335-H336 Precaution Statement: P261-P280-P305 + P351 + P338

ISO-OCTANOL

Iso-octanol 2-ethyl hexanol

Product Code.	01884	Grade	
Purity	97%	CAS No.	104-76-7
Molecular Formula	C8H18O	Molecular Weight	130.23
H.S.Code	2905.16100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Sweet floral (rose-like) odor
Melting point/ Freezing point [°C]	-76 °C	Auto-ignition temperature [°C]	231°C	Flash point [°C]	81 °C
Boiling point [°C]	183 - 186 °C	Initial boiling point [°C]	183 °C	Final boiling point [°C]	186 °C
Evaporation rate	0.01	Vapour pressure [20°C]	0.3 hPa at 20 °C	Vapour density	4.5
Density [g/cm3]	0.833 g/cm3 at 25 °C	Solubility in water [% weight]	Slightly soluble in water	Explosion limits - upper [%]	9.70%
Explosion limits -lower [%]	0.88%				

Packaging

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Specification

Appearance	A Clear Colourless liquid
Assay (GC area %)	Min 97%

Density (d20°C/4°C)	0.832 - 0.833
Water (by KF)	Max 0.2%
Identity	Conforms

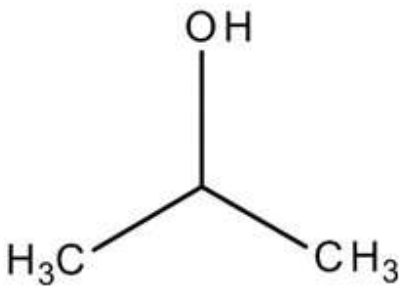
Safety Information and Hazard Symbols


Symbol: GHS05, GHS07 Signal Word: Danger Hazardous Statement: H312-H315-H318-H335 Precaution Statement: P261-P280-P305 + P351 + P338

ISO-PROPYL ALCOHOL 99% FOR SYNTHESIS

2-Propanol, sec-Propyl alcohol, IPA, Isopropanol, Isopropyl alcohol

Product Code.	02201	Grade	For Synthesis
Purity	99%	CAS No.	67-63-0
Molecular Formula	C3H8O	Molecular Weight	60.10
H.S.Code	2905.12200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Alcoholic odour
Melting point/ Freezing point [°C]	-89°C	Auto-ignition temperature [°C]	399°C	Flammability (solid, gas)	Flammable
Flash point [°C]	12°C	Boiling point [°C]	82°C	Evaporation rate	2.83
Vapour pressure [20°C]	43.2 hPa at 20°C	Vapour pressure mm/Hg	44 mm Hg @ 25C	Vapour density	2.1
Density [g/cm3]	0.79	Solubility in water [% weight]	Miscible in water	Partition coefficient Log Pow octanol / water at 20°C	0.05
Explosion limits - upper [%]	12.70%	Explosion limits -lower [%]	2%		

Packaging

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Specification

Appearance	Clear colourless liquid
Purity (by GC)	Min 99.0%
Free acid (as C2H5COOH)	Max 0.002%

Density (d20°C/4°C)	0.784 - 0.785 g/ml
Refractive index (20°C; 589 nm)	1.376 - 1.378
Methanol (CH3OH)	Max 0.05%
Non volatile matter	Max 0.005%
Water (H2O)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1219

IMCO Class No.: 3

Packing Group: II

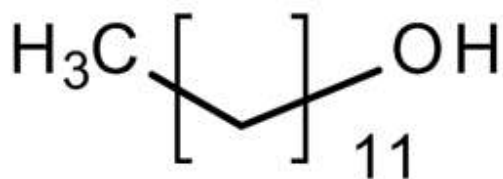
Hazardous Statement: H225-H319-H336

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

LAURYL ALCOHOL 98% FOR SYNTHESIS

1-Dodecanol ; Dodecyl Alcohol

Product Code.	01507	Grade	
Purity	98%	CAS No.	112-53-8
Molecular Formula	C12H26O	Molecular Weight	186.34
H.S.Code	2905.17000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Floral odor
Melting point/ Freezing point [°C]	22 - 26 °C	Auto-ignition temperature [°C]	260 °C	Flash point [°C]	121 °C
Vapour pressure [20°C]	0.1 hPa at 20 °C	Vapour density	6.4	Density [g/cm3]	0.833
Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	5.13	Explosion limits - upper [%]	4%
Explosion limits -lower [%]	0.60%				

Packaging

Specification

Appearance	Colourless solid or liquid
Assay (GC area %)	Min 98%
Melting range	21 - 24 deg C

Safety Information and Hazard Symbols



Symbol: GHS07, GHS09

Signal Word: Warning

UN No.: 3077

IMCO Class No.: 9

Packing Group: III

Hazardous Statement: H315-H319-H335-H410

Precaution Statement: P261-P273-P305 + P351 + P338-P501

METHANOL 99.5% EXTRAPURE

Product Code.	01693	Grade	Extrapure
Purity	99.5%	CAS No.	67-56-1
Molecular Formula	CH 3 OH	Molecular Weight	32.04
H.S.Code	2905.11000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Color	Colorless	Odour	Characteristic
Melting point/ Freezing point[°C]	-98 °C	Flammability (solid, gas)	Highly flammable liquidand vapour.	Flash point [°C]	11 °C
Boiling point [°C]	64.7 °C	Vapour pressure [20°C]	96.5 (20° C)	Vapour density	1.11
Density [g/cm3]	0.791	Solubility in water [% weight]	Complete	Explosion limits - upper [%]	36.50%
Explosion limits -lower [%]	5.50%				

Packaging



Specification

Appearance	A clear colourless liquid
Purity (by GC)	Min 99.5%
Weight/ mL at 25°C	0.790 - 0.793 g/ml
Refractive index (20°C; 589 nm)	1.328 -1.331
Non-volatile matter	Max 0.005%
Aldehydes & Ketones [(CH3)2CO]	Max 0.1%
Water (H2O)	Max 0.25%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS06, GHS08

Signal Word: Danger

UN No.: 1230

IMCO Class No.: 3,6.1

Packing Group: II

Hazardous Statement: H225-H301-H311-H331-H370

Precaution Statement: P210-P260-P280-P301 + P310-P311

METHANOL 99.8% AR

Product Code.	01694	Grade	AR
Purity	99.8%	CAS No.	67-56-1
Molecular Formula	CH 3 OH	Molecular Weight	32.04
H.S.Code	2905.11000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Color	Colorless	Odour	Characteristic
Melting point/ Freezing point[°C]	-98 °C	Flammability (solid, gas)	Highly flammable liquidand vapour.	Flash point [°C]	11 °C
Boiling point [°C]	64.7 °C	Vapour pressure [20°C]	96.5 (20° C)	Vapour density	1.11
Density [g/cm3]	0.791	Solubility in water [% weight]	Complete	Explosion limits - upper [%]	36.50%
Explosion limits -lower [%]	5.50%				

Packaging



Specification

Appearance	A clear colorless liquid
Color scale	Max 10 APHA
Purity (by GC)	Min 99.8%
Water (by KF)	Max 0.1%
Residue on evaporation	Max 0.001%
Solubility in water	Passes test
Acetone (CH3.CO.CH3)	Max 0.001%
Formaldehyde (HCHO)	Max 0.001%

Acetaldehyde (CH ₃ .CHO)	Max 0.001%
Titration acid	Max 0.0003 meq/g
Titration base	Max 0.0002 meq/g
Substance darkened by H ₂ SO ₄	Passes test
Substance reducing KMnO ₄ (as O)	Passes test

Safety Information and Hazard Symbols


Symbol: GHS02, GHS06, GHS08 Signal Word: Danger UN No.: 1230 IMCO Class No.: 3,6.1 Packing Group: II Hazardous Statement: H225-H301-H311-H331-H370 Precaution Statement: P210-P260-P280-P301 + P310-P311

METHANOL 99.8% FOR HPLC

Product Code.	01695	Grade	FOR HPLC
Purity	99.8%	CAS No.	67-56-1
Molecular Formula	CH 3 OH	Molecular Weight	32.04
H.S.Code	2905.11000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Color	Colorless	Odour	Characteristic
Melting point/ Freezing point[°C]	-98 °C	Flammability (solid, gas)	Highly flammable liquidand vapour.	Flash point [°C]	11 °C
Boiling point [°C]	64.7 °C	Vapour pressure [20°C]	96.5 (20° C)	Vapour density	1.11
Density [g/cm3]	0.791	Solubility in water [% weight]	Complete	Explosion limits - upper [%]	36.50%
Explosion limits -lower [%]	5.50%				

Packaging



Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.8%
Non volatile matter	Max 0.0003%
Acidity or Alkalinity	Max 0.001%
Water (H2O)	Max 0.05%
Non volatile substances	Max 0.001%
at 225 nm	Min 50%
at 240 nm	Min 80%

at 265 nm	Min 98%
Dilution test (1:1,1:2, water)	Solution is clear & colorless for min. 1 hour

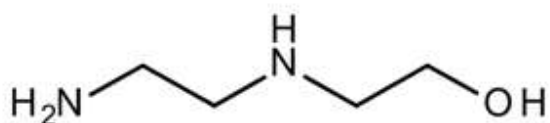
Safety Information and Hazard Symbols


Symbol: GHS02, GHS06, GHS08 Signal Word: Danger UN No.: 1230 IMCO Class No.: 3,6.1 Packing Group: II Hazardous Statement: H225-H301-H311-H331-H370 Precaution Statement: P210-P260-P280-P301 + P310-P311

N-(2-AMINOETHYL) ETHANOLAMINE 98% FOR SYNTHESIS

2-(2-Aminoethylamino)ethanol, N-(2-Hydroxyethyl)ethylenediamine

Product Code.	00156	Grade	
Purity	99%	CAS No.	111-41-1
Molecular Formula	C4H12N2O	Molecular Weight	104.15
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Auto-ignition temperature [°C]	368°C
Flash point [°C]	144 °C	Boiling point [°C]	238 - 240 °C	Initial boiling point [°C]	238°C
Final boiling point [°C]	240 °C	Vapour pressure [20°C]	0.013 mbar @ 20°C	Vapour density	3.59
Density [g/cm3]	1.03	Solubility in water [% weight]	Slightly Soluble		

Packaging



Specification

Appearance	A clear colourless liquid
Assay (GC area %)	Min 98.0%

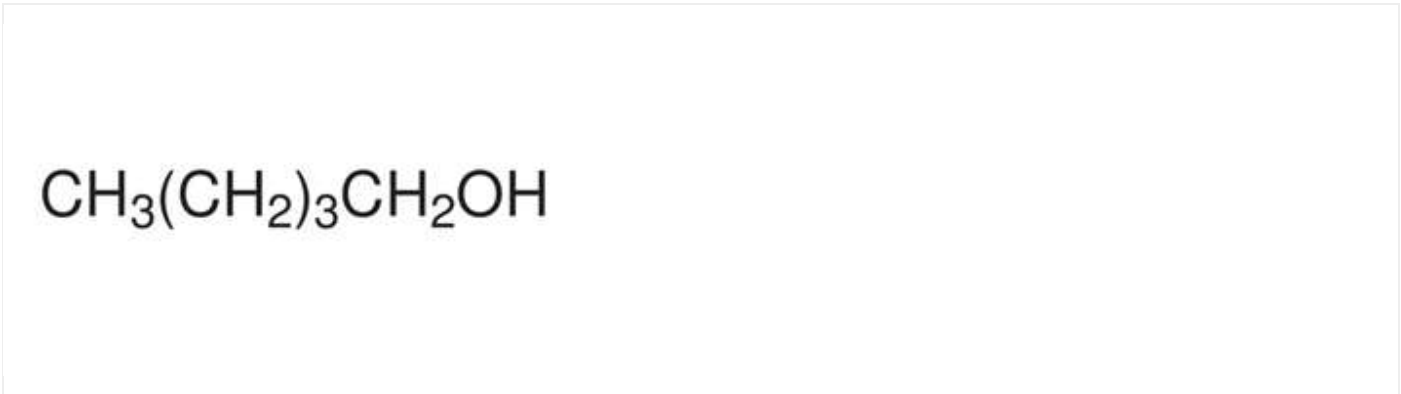
Density (d20°C/4°C)	1.029-1.031
Identity (IR)	Passes test

Safety Information and Hazard Symbols


Symbol: GHS05, GHS07, GHS08 Signal Word: Danger UN No.: 2735 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H314-H317-H360 Precaution Statement: P201-P280-P305 + P351 + P338-P310

N-AMYL ALCOHOL 99% AR
1-Pentanol, Pnetyl Alcohol , (N-Pentanol) (Pentan-1-ol)

Product Code.	00260	Grade	
Purity	99%	CAS No.	71-41-0
Molecular Formula	C5H12O	Molecular Weight	88.15
H.S.Code	2905.42900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pleasant
Odour threshold	0.1 ppm	pH value	7	Melting point/ Freezing point [°C]	-78 °C
Critical temperature [°C]	313°C	Auto-ignition temperature [°C]	300 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	33°C	Boiling point [°C]	137.5°C	Vapour pressure [20°C]	0.4 kPa
Vapour density	3	Density [g/cm3]	0.8146	Relative density, gas (air=1)	3.04
Solubility in water [% weight]	22.8 g/l at 25 °C	Partition coefficient Log Pow octanol / water at 20°C	1.51	Explosion limits - upper [%]	10.00%
Explosion limits -lower [%]	1.20%				

Packaging

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Specification

Appearance	Clear colorless liquid
Assay (GC area %)	Min 99%

Identity (IR)	Passes test
Free acid (as acetic acid)	Max 0.005%
Aluminium (Al)	Max 0.00005%
Barium (Ba)	Max 0.00001%
Calcium (Ca)	Max 0.00005%
Iron (Fe)	Max 0.00001%
Magnesium (Mg)	Max 0.00001%
Lead (Pb)	Max 0.00001%
Tin (Sn)	Max 0.00001%
Zinc (Zn)	Max 0.00001%
Pentanoic aldehyde (GC)	Max 0.05%
Substance discoloured by H2SO4	Passes test
Water (H2O)	Max 0.1%

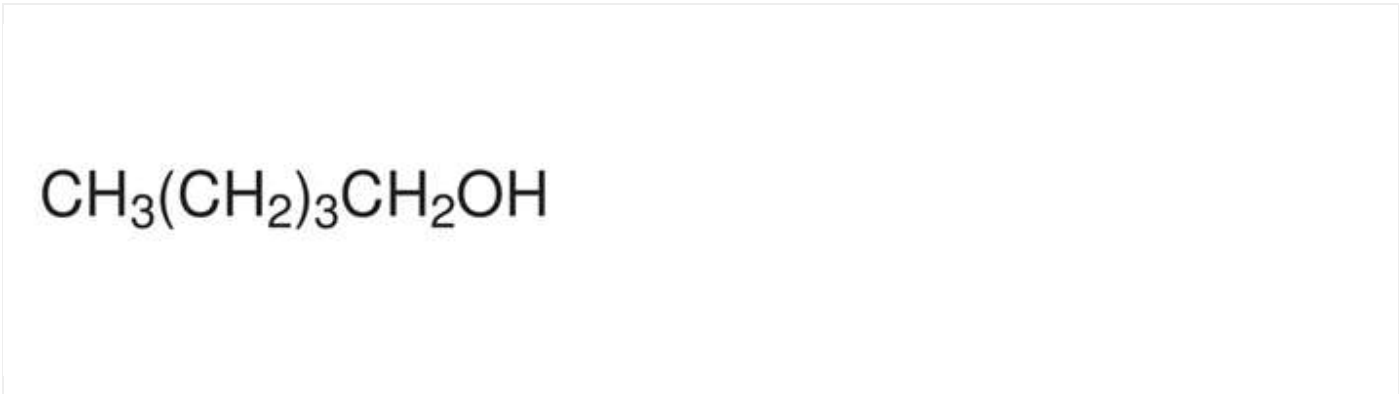
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 1105 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H315-H332-H335 Precaution Statement: P261

N-AMYL ALCOHOL 99% FOR SYNTHESIS

n-Pentanol, Pentyl alcohol , Pentan-1-ol

Product Code.	00259	Grade	
Purity	99%	CAS No.	71-41-0
Molecular Formula	C5H12O	Molecular Weight	88.15
H.S.Code	2905.42900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pleasant
Odour threshold	0.1 ppm	pH value	7	Melting point/ Freezing point [°C]	-78 °C
Critical temperature [°C]	313°C	Auto-ignition temperature [°C]	300 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	33°C	Boiling point [°C]	137.5°C	Vapour pressure [20°C]	0.4 kPa
Vapour density	3	Density [g/cm3]	0.8146	Relative density, gas (air=1)	3.04
Solubility in water [% weight]	22.8 g/l at 25 °C	Partition coefficient Log Pow octanol / water at 20°C	1.51	Explosion limits - upper [%]	10.00%
Explosion limits -lower [%]	1.20%				

Packaging

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Specification

Appearance	Clear colorless liquid
Assay (GC area %)	Min 99%

Density (d20°C/4°C)	0.814 - 0.815
Water (H2O)	Max 0.3%
Refractive index (20°C; 589 nm)	1.4100

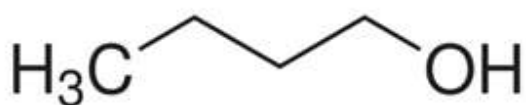
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 1105 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H315-H332-H335 Precaution Statement: P261

N-BUTANOL 99% FOR SYNTHESIS (BUTAN-1-OL)

n-Butanol, Butan-1-ol , n-BUTANOL

Product Code.	00551	Grade	
Purity	99%	CAS No.	71-36-3
Molecular Formula	C4H10O	Molecular Weight	74.12
H.S.Code	2905.13000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Strong characteristic, mildly alcoholic odor
Melting point/ Freezing point [°C]	-90 °C	Auto-ignition temperature [°C]	343°C	Flammability (solid, gas)	Flammable
Flash point [°C]	35 °C	Boiling point [°C]	116 - 118 °C	Initial boiling point [°C]	116 °C
Final boiling point [°C]	118 °C	Evaporation rate	0.46	Vapour pressure [20°C]	5 hPa at 20 °C
Vapour density	2.56	Density [g/cm3]	0.81	Relative density, gas (air=1)	0.81
Solubility in water [% weight]	Soluble	Explosion limits - upper [%]	11.20%	Explosion limits -lower [%]	1.40%

Packaging



Specification

Appearance	A clear colorless liquid
Assay (GC area %)	Min 99%
Identity (IR)	Passes test
Density (d20°C/4°C)	0.809 - 0.810
Free acid (as C4H8O2)	Max 0.005 meq /gm
Water (H2O)	Max 0.5%

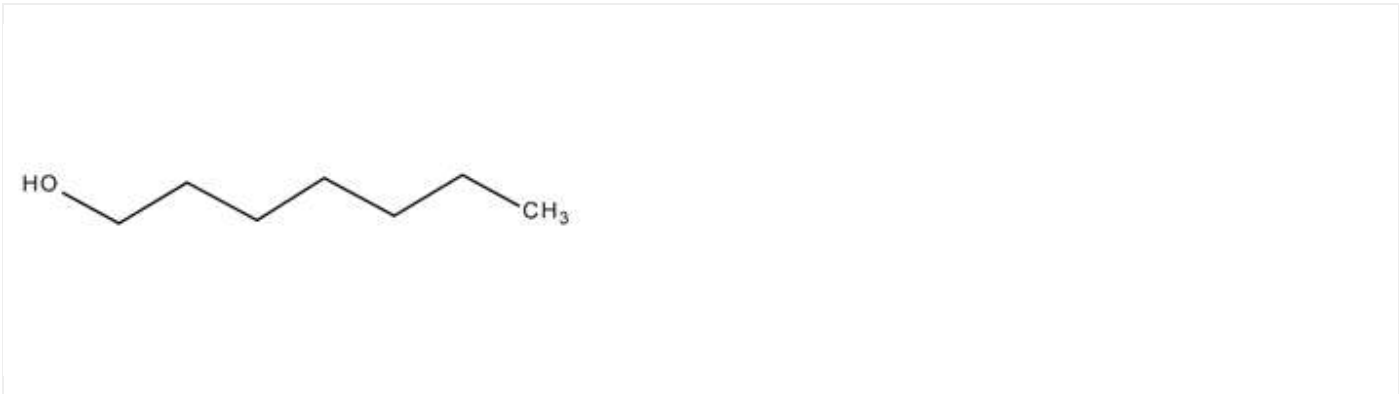
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 1120 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H302-H315-H318-H335-H336 Precaution Statement: P210-P280-P302+352-P305+351+338-P313 Risk Statement: 10-22-37/38-41-67 Safety Statement: 7/9-13-26-37/39-46

N-HEPTANOL 99.5% AR

1-Heptanol, n-Heptyl alcohol

Product Code.	01340	Grade	AR
Purity	99.5%	CAS No.	111-70-6
Molecular Formula	C7H16O	Molecular Weight	116.20
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Alcohol like
Odour threshold	0.49 ppm	Melting point/ Freezing point [°C]	-36 °C	Critical temperature [°C]	365 °C
Auto-ignition temperature [°C]	350 °C	Flash point [°C]	70 °C	Boiling point [°C]	176 °C
Density [g/cm3]	0.822 g/cm3 at 25 °C				

Packaging

Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99.5%
Density (d20°C/4°C)	0.822 - 0.823 g/ml
Identity (IR)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

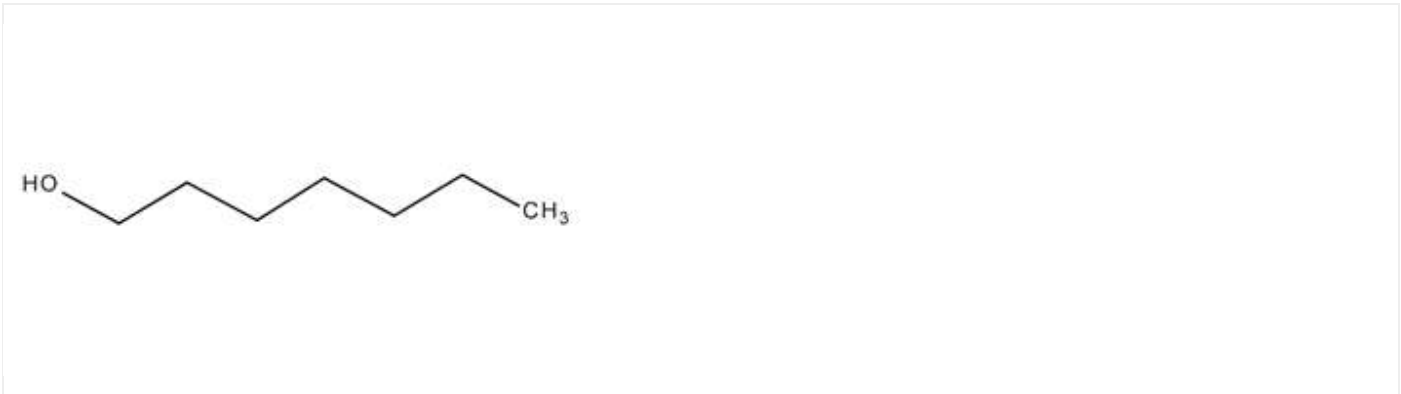
Hazardous Statement: H302-H312-H319

Precaution Statement: P280-P305 + P351 + P338

N-HEPTANOL 99% FOR SYNTHESIS

1-Heptanol, n-Heptyl alcohol

Product Code.	01339	Grade	
Purity	99%	CAS No.	111-70-6
Molecular Formula	C7H16O	Molecular Weight	116.20
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Alcohol like
Odour threshold	0.49 ppm	Melting point/ Freezing point [°C]	-36 °C	Critical temperature [°C]	365 °C
Auto-ignition temperature [°C]	350 °C	Flash point [°C]	70 °C	Boiling point [°C]	176 °C
Density [g/cm3]	0.822 g/cm3 at 25 °C				

Packaging

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Specification

Appearance	A clear colourless liquid
Assay (GC area %)	Min 99%
Density (d20°C/4°C)	0.822 - 0.823
Identity (IR)	Conforms

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

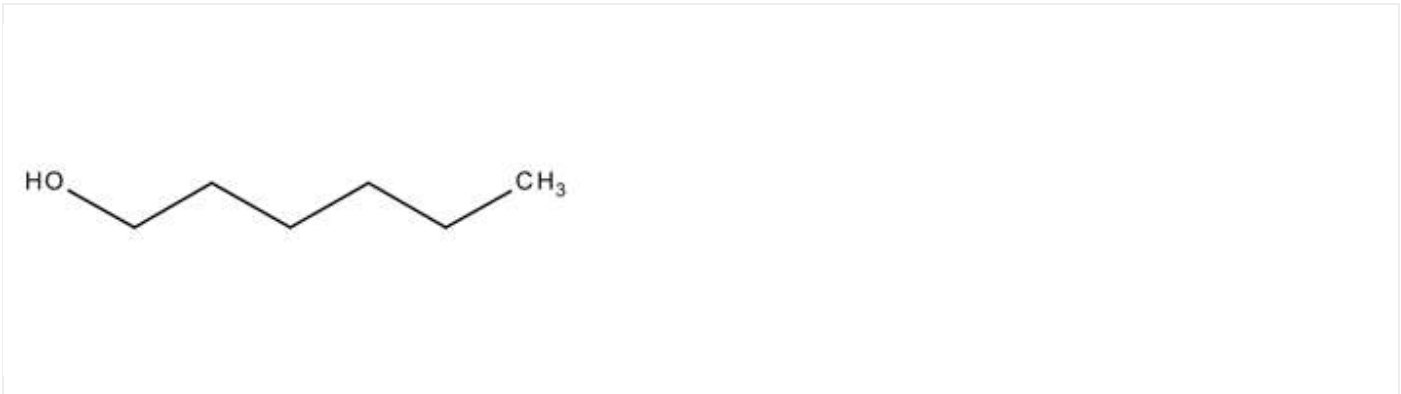
Hazardous Statement: H302-H312-H319

Precaution Statement: P280-P305 + P351 + P338

N-HEXANOL 98% FOR SYNTHESIS

1-Hexanol, n-Hexyl alcohol

Product Code.	01354	Grade	For Synthesis
Purity	98%	CAS No.	111-27-3
Molecular Formula	C6H14O	Molecular Weight	102.18
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Characteristic fruity odour
Melting point/ Freezing point [°C]	-52 °C	Auto-ignition temperature [°C]	293 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	59 °C	Boiling point [°C]	156 - 157 °C	Initial boiling point [°C]	156 °C
Final boiling point [°C]	157 °C	Evaporation rate	0.05	Vapour pressure [20°C]	1 hPa at 20 °C
Vapour density	4.5	Density [g/cm3]	0.82	Relative density, gas (air=1)	3.53
Solubility in water [% weight]	0.59 g/100 g water	Partition coefficient Log Pow octanol / water at 20°C	1.82	Explosion limits -lower [%]	1.30%

Packaging

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Specification

Appearance	Colorless liquid
Purity (by GC)	Min 98.0%

Density (d20°C/4°C)	0.818 - 0.819 g/ml
Identity (IR)	Conforms

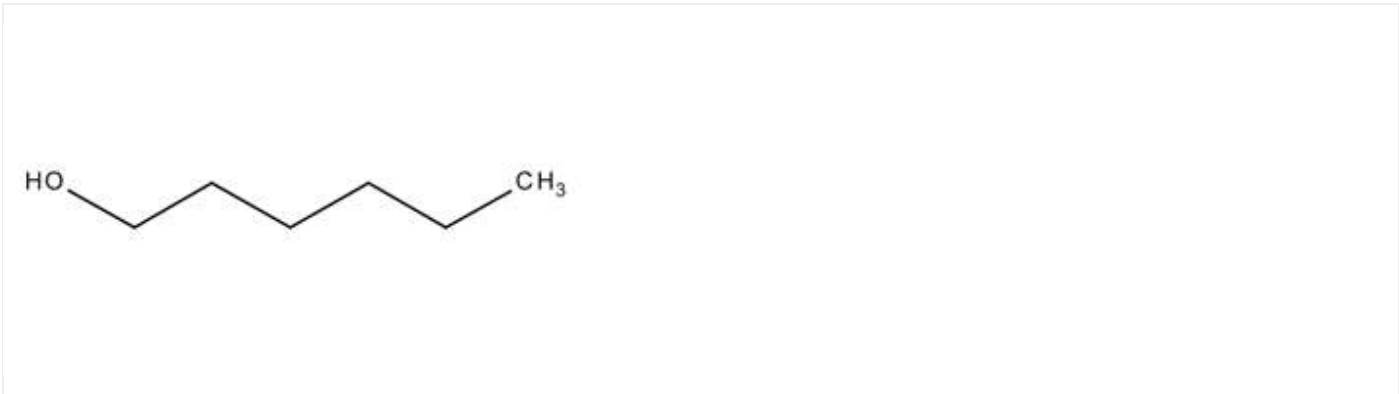
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 2282 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H302 + H312-H319 Precaution Statement: P210-P280-P301 + P312 + P330-P305 + P351 + P338-P370 + P378

N-HEXANOL 99% AR

Hexyl alcohol; 1-Hexanol

Product Code.	01355	Grade	AR
Purity	99%	CAS No.	111-27-3
Molecular Formula	C6H14O	Molecular Weight	102.18
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Characteristic fruity odour
Melting point/ Freezing point [°C]	-52 °C	Auto-ignition temperature [°C]	293 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	59 °C	Boiling point [°C]	156 - 157 °C	Initial boiling point [°C]	156°C
Final boiling point [°C]	157 °C	Evaporation rate	0.05	Vapour pressure [20°C]	1 hPa at 20 °C
Vapour density	4.5	Density [g/cm3]	0.82	Relative density, gas (air=1)	3.53
Solubility in water [% weight]	0.59 g/100 g water	Partition coefficient Log Pow octanol / water at 20°C	1.82	Explosion limits -lower [%]	1.30%

Packaging

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Specification

Appearance	Colorless liquid
Purity (by GC)	Min 99.0%

Density (d20°C/4°C)	0.818 - 0.819 g/ml
Identity (IR)	Passes test

Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 2282 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H302 + H312-H319 Precaution Statement: P210-P280-P301 + P312 + P330-P305 + P351 + P338-P370 + P378

POLYVINYL ALCOHOL FOR SYNTHESIS

PVOH; PVA; Polyviol; Vinol

Product Code.	02054	Grade	For Synthesis
Purity		CAS No.	9002-89-5
Molecular Formula	(-C2H4O)n	Molecular Weight	0.00
H.S.Code	3905.30000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline powder/flakes /granules	Odour	Mild odor
pH value	5 - 7.5	Melting point/ Freezing point [°C]	200 °C	Decomposition point [°C]	228 °C
Flash point [°C]	> 113 °C	Density [g/cm3]	1.269	Solubility in water [% weight]	Soluble in water
Viscosity at 40°C [mm2/s]	4-35 mm2/s at 20 °C				

Packaging

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Specification

Appearance	White crystalline powder/flakes/granules
Degree of polymerisation	1700 - 1800
Viscosity	25 - 32 cps
Hydrolysis (mole %)	98 - 99
Volatile matter	Max 5%
Ash content	Max 0.7%
pH (0.2% solution in water)	5 - 7.5

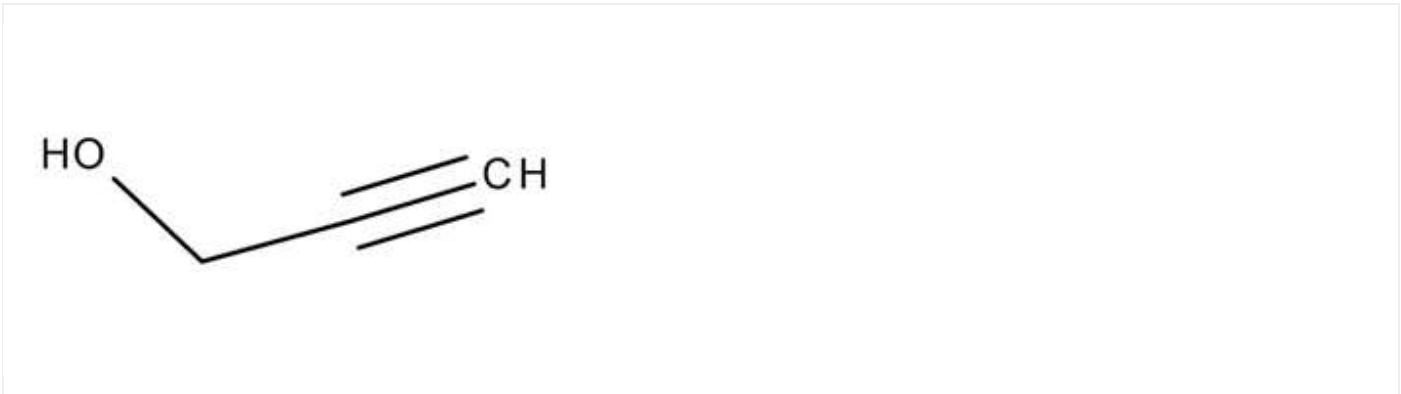
Safety Information and Hazard Symbols

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PROPARGYL ALCOHOL 99% FOR SYNTHESIS

2-Propyn-1-ol

Product Code.	02193	Grade	
Purity	99%	CAS No.	107-19-7
Molecular Formula	C3H4O	Molecular Weight	56.06
H.S.Code	2905.29000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to yellowish liquid	Melting point/ Freezing point [°C]	-53 °C
Flash point [°C]	33 °C	Boiling point [°C]	114 - 115 °C	Initial boiling point [°C]	114 °C
Final boiling point [°C]	115 °C	Vapour density	1.94	Density [g/cm3]	0.949

Packaging

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Specification

Appearance	A clear colourless to yellow liquid
Assay (GC area %)	Min 99%
Density (d20°C/4°C)	0.948 - 0.950
Identity (IR)	Passes test

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06, GHS09

Signal Word: Danger

UN No.: 2929

IMCO Class No.: 6.1

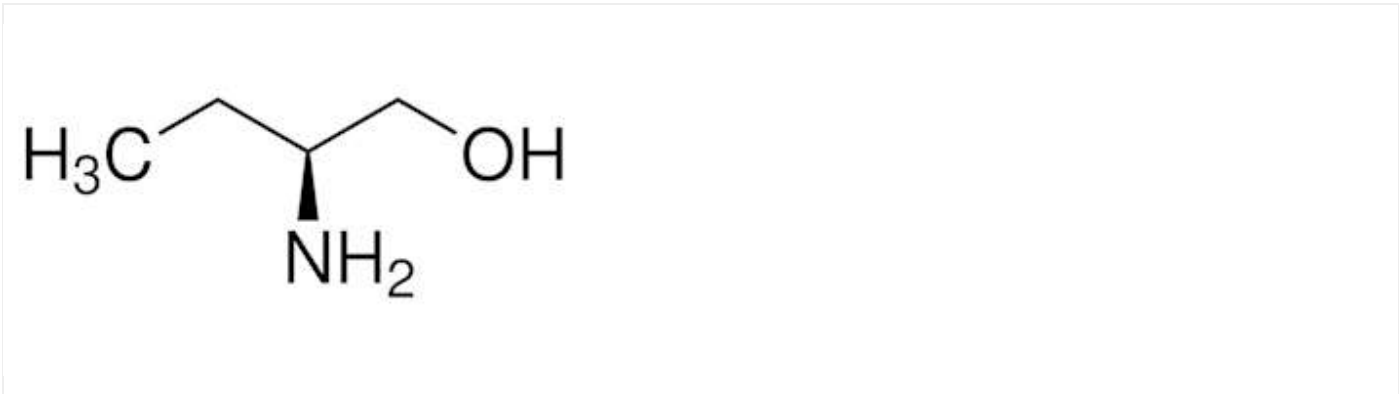
Packing Group: I

Hazardous Statement: H226-H301-H311-H314-H331-H411

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

S(+)-2-AMINO-1-BUTANOL 98% EXTRAPURE
D-2-Aminobutanol

Product Code.	00153	Grade	
Purity	97%	CAS No.	5856-62-2
Molecular Formula	C4H11NO	Molecular Weight	89.14
H.S.Code	2922.19900	Shelf Life	60 Months



Physical Properties

Packaging



Specification

Appearance	Clear colorless to slightly yellowish viscous liquid
Assay (by GC)	Min97%
Identity (IR)	Passes test
Specific optical Rotation ([α] _{20/D} ; c = Neat)	+8.5° to +11.5° (20°C, 589 nm)
Enantiomeric Excess	Min 94.0%
Density (at 25°C)	~0.944 g/mL
Refractive index (20°C; 589 nm)	1.4515 to 1.4535

Safety Information and Hazard Symbols



Symbol: GHS05, GHS07

Signal Word: Danger

UN No.: 2735

IMCO Class No.: 8

Packing Group: III

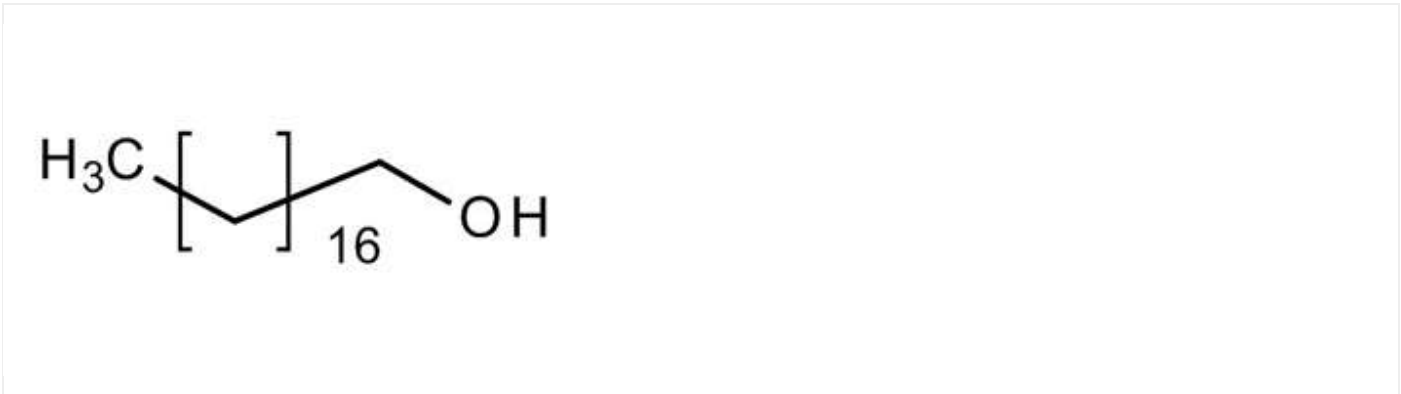
Hazardous Statement: H302-H314

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

STEARYL ALCOHOL 96% EXTRAPURE

1-Octadecanol ;Octadecyl alcohol; Stearyl alcohol

Product Code.	02563	Grade	Extrapure
Purity	96%	CAS No.	112-92-5
Molecular Formula	C18H38O	Molecular Weight	270.50
H.S.Code	2905.17000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White flakes	Odour	Fatty & oily odour
Melting point/ Freezing point [°C]	56 - 59 °C	Auto-ignition temperature [°C]	450°C	Flash point [°C]	> 113 °C
Boiling point [°C]	170 - 171 °C	Initial boiling point [°C]	170°C	Final boiling point [°C]	171 °C
Vapour pressure mm/Hg	< 0.01 mm Hg at 38 °C	Vapour density	9.5	Density [g/cm3]	0.812
Solubility in water [% weight]	Insoluble in water	Explosion limits - upper [%]	8%	Explosion limits -lower [%]	1%

Packaging

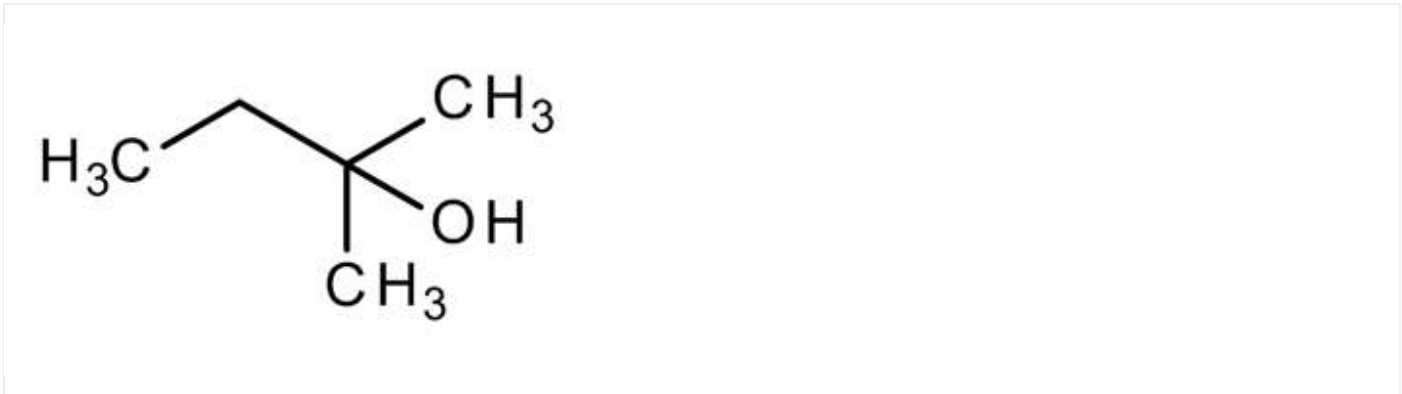
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Specification

Appearance	White Powder or flakes or pellets
Purity (by GC)	Min 96.0%
Melting range	55 - 58°C

TERT-AMYL ALCOHOL 99.5% AR
2-Methyl-2-butanol, tert-Pentyl alcohol

Product Code.	00262	Grade	
Purity	99.5%	CAS No.	75-85-4
Molecular Formula	C5H12O	Molecular Weight	88.15
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Camphor odor
pH value	6 at 118 g/l at 20 °C	Melting point/ Freezing point [°C]	-12 °C	Auto-ignition temperature [°C]	437 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	20 °C	Boiling point [°C]	102 °C
Vapour pressure [20°C]	16 hPa	Vapour density	3	Density [g/cm3]	0.81
Relative density, gas (air=1)	3.04	Partition coefficient Log Pow octanol / water at 20°C	0.77	Explosion limits - upper [%]	9.00%
Explosion limits -lower [%]	1.20%				

Packaging

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Specification

Appearance	Clear colorless liquid
Assay (GC area %)	Min 99.5%
Identity (IR)	Passes test

Free acid (as acetic acid)	Max 0.001%
Water (H2O)	Max 0.1%
Non volatile matter	Max 0.001%
Refractive index (20°C; 589 nm)	~1.4052

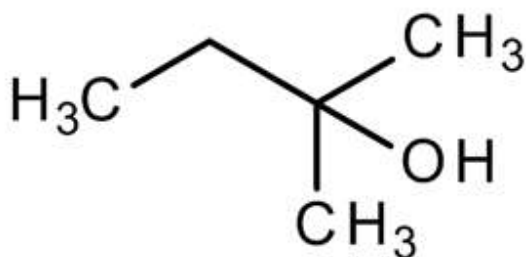
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 1105 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H315-H332-H335 Precaution Statement: P210-P261

TERT-AMYL ALCOHOL 99% FOR SYNTHESIS

2-Methyl-2-butanol, tert-Pentyl alcohol

Product Code.	00261	Grade	
Purity	99%	CAS No.	75-85-4
Molecular Formula	C5H12O	Molecular Weight	88.15
H.S.Code	2905.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Camphor odor
pH value	6 at 118 g/l at 20 °C	Melting point/ Freezing point [°C]	-12 °C	Auto-ignition temperature [°C]	437 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	20 °C	Boiling point [°C]	102 °C
Vapour pressure [20°C]	16 hPa	Vapour density	3	Density [g/cm3]	0.81
Relative density, gas (air=1)	3.04	Partition coefficient Log Pow octanol / water at 20°C	0.77	Explosion limits - upper [%]	9.00%
Explosion limits -lower [%]	1.20%				

Packaging

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Specification

Appearance	Clear colorless liquid
Assay (GC area %)	Min 99%
Density (at 25°C)	0.808 - 0.809

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1105

IMCO Class No.: 3

Packing Group: II

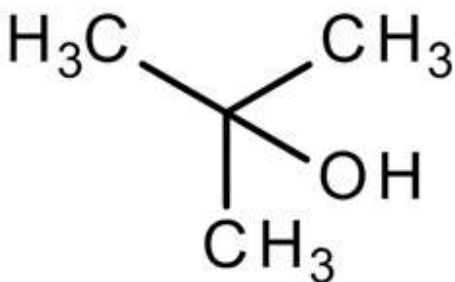
Hazardous Statement: H225-H315-H332-H335

Precaution Statement: P210-P261

TERT-BUTANOL 98.5% FOR SYNTHESIS

2-Methylpropan-2-ol, tert-BUTANOL

Product Code.	00559	Grade	
Purity	98.5%	CAS No.	75-65-0
Molecular Formula	(CH ₃) ₃ COH	Molecular Weight	74.12
H.S.Code	2905.14900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Low melting solid	Colour	Clear Colorless	Odour	camphor
pH value	7	Melting point/ Freezing point [°C]	23 - 26 °C	Auto-ignition temperature [°C]	480 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	11 °C	Boiling point [°C]	83 °C
Evaporation rate	1.05	Vapour pressure [20°C]	41 hPa at 20 °C	Vapour density	2.6
Density [g/cm ³]	0.78	Relative density, gas (air=1)	2.56	Solubility in water [% weight]	completely miscible
Viscosity at 40°C [mm ² /s]	3.35 mPa @ 30°C	Explosion limits - upper [%]	8%	Explosion limits -lower [%]	2.40%

Packaging



Specification

Appearance	A clear, colourless liquid
Assay (GC area %)	Min. 98.5%
Weight/ mL at 20°C	About 0.780 g
Non volatile matter	Max. 0.003%
Freezing point	24.5 - 25.5°C

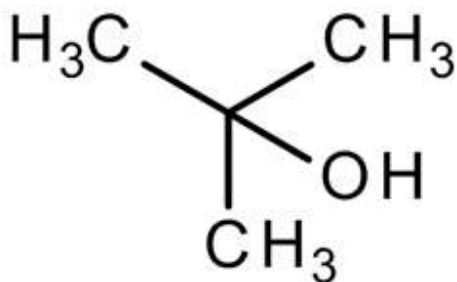
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 1120 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H319-H332-H335 Precaution Statement: P210-P261-P305 + P351 + P338

TERT-BUTANOL 99% AR

2-methylpropan-2-ol ;Tert- Butanol

Product Code.	00560	Grade	AR
Purity	99%	CAS No.	75-65-0
Molecular Formula	(CH ₃) ₃ COH	Molecular Weight	74.12
H.S.Code	2905.14900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Low melting solid	Colour	Clear Colorless	Odour	camphor
pH value	7	Melting point/ Freezing point [°C]	23 - 26 °C	Auto-ignition temperature [°C]	480 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	11 °C	Boiling point [°C]	83 °C
Evaporation rate	1.05	Vapour pressure [20°C]	41 hPa at 20 °C	Vapour density	2.6
Density [g/cm ³]	0.78	Relative density, gas (air=1)	2.56	Solubility in water [% weight]	completely miscible
Viscosity at 40°C [mm ² /s]	3.35 mPa @ 30°C	Explosion limits - upper [%]	8%	Explosion limits -lower [%]	2.40%

Packaging



Specification

Appearance	Clear liquid
Colour scale	Max 20 APHA
Purity (by GC)	Min 99.0%
Infrared spectrum	Conforms
Weight/ mL at 30°C	0.773 - 0.778 g
Freezing point	Min 25°C
Water (by KF)	Max 0.1%
Titration acid	Max 0.001 meq/g
Non-volatile matter	Max 0.001%
Carbonyl compounds (as formaldehyde)	Max 0.01%
Butan-2-ol [C ₄ H ₉ (OH)]	Max 0.2%
Copper (Cu)	Max 0.00005%
Iron (Fe)	Max 0.00005%
Lead (Pb)	Max 0.00005%

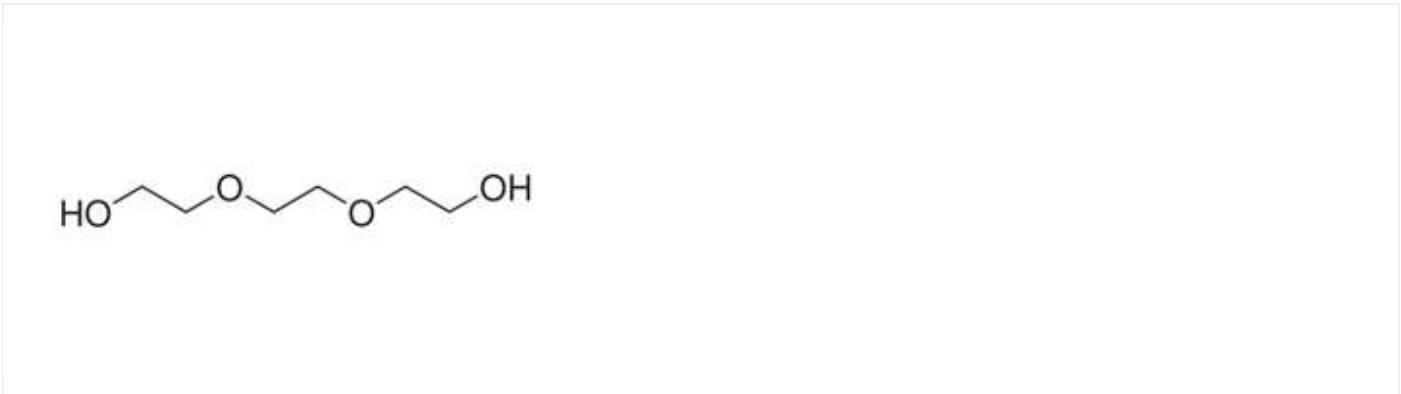
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 1120 IMCO Class No.: 3.2 Packing Group: II Hazardous Statement: H225-H319-H332-H335 Precaution Statement: P210-P261-P305 + P351 + P338

TRIETHYLENE GLYCOL 98% FOR SYNTHESIS

Trigol, Triglycol

Product Code.	02762	Grade	For Synthesis
Purity	98%	CAS No.	112-27-6
Molecular Formula	C6H14O4	Molecular Weight	150.18
H.S.Code	2909.49000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Melting point/ Freezing point [°C]	-7 °C
Auto-ignition temperature [°C]	371 °C	Flash point [°C]	166 °C	Boiling point [°C]	125-127°C
Initial boiling point [°C]	125°C	Final boiling point [°C]	127°C	Vapour pressure [20°C]	< 1 hPa at 20 °C
Vapour density	5.18	Density [g/cm3]	1.124	Solubility in water [% weight]	Completely soluble
Explosion limits - upper [%]	9.20%	Explosion limits -lower [%]	0.90%		

Packaging

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Specification

Appearance	Colorless liquid
Purity (by GC)	Min 98.0%
Density (d20°C/4°C)	1.123 - 1.124 g/ml
Water (H2O)	Max 0.3%

Refractive index (20°C; 589 nm)

~1.4559

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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