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Технические характеристики

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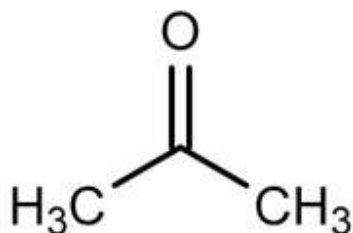
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ACETONE 99.8% FOR HPLC/UV SPECTROSCOPY

Propanone; Dimethyl Ketone

Product Code.	00029	Grade	For HPLC/UV Spectroscopy
Purity	99.8%	CAS No.	67-64-1
Molecular Formula	(CH ₃) ₂ CO	Molecular Weight	58.08
H.S.Code	2914.11000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fragrant, mint-like
Odour threshold	62 ppm	Melting point/ Freezing point [°C]	-95.35°C	Critical temperature [°C]	235°C
Auto-ignition temperature [°C]	465°C	Flammability (solid, gas)	Extremely flammable	Flash point [°C]	-20°C
Boiling point [°C]	56.2°C	Vapour pressure [20°C]	24 kPa	Vapour density	2
Density [g/cm ³]	0.79	Relative density, gas (air=1)	2	Solubility in water [% weight]	Complete

Packaging



Specification

Appearance	Clear colorless liquid with characteristics odor
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Purity (by GC)	Min 99.8%
Non volatile matter	Max 0.0001%
Acidity	Max 0.0003%
Water (H2O)	Max 0.5%
UV transmittance (1cm cell, ref: water):	
at 330 nm	Min 15%
at 335 nm	Min 55%
at 340 nm	Min 85%
at 345 nm	Min 95%
at 350 nm	Min 98%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1090

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225-H319-H336

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

ACETONITRILE 99.9% FOR HPLC/UV SPECTROSCOPY

Product Code.	00033	Grade	For HPLC/UV Spectroscopy
Purity	99.9%	CAS No.	75-05-8
Molecular Formula	CH 3 CN	Molecular Weight	41.05
H.S.Code	2926.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ether odor
pH value	7	Melting point/ Freezing point[°C]	-46°C	Auto-ignition temperature [°C]	524°C
Flammability (solid, gas)	Flammable	Flash point [°C]	2°C	Boiling point [°C]	81.6°C
Evaporation rate	5.79	Vapour pressure [20°C]	9.7kPa	Vapour pressure mm/Hg	73
Vapour density	1.4	Density [g/cm3]	0.786	Relative density, gas (air=1)	1.4
Solubility in water [% weight]	Complete				

Packaging



Specification

Appearance	Clear colorless liquid
Assay	Min 99.9%
Water (H2O)	Max 0.05%
Acidity	Max 0.0005 meg/g
Alkalinity	Max 0.0005 meg/g
Residue on evaporation	Max 0.0005%
Density (at 20°C)	0.782 - 0.783 g/ml

at 240 nm	Min 98%
at 195 nm	Min 70%
at 200 nm	Min 90%

Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 1648 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H302-H312-H319-H332 Precaution Statement: P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P501

ACETONITRILE 99.9% HPLC GRADIENT GRADE

Product Code.	0033A	Grade	HPLC Gradient Grade
Purity	99.9%	CAS No.	75-05-8
Molecular Formula	CH 3 CN	Molecular Weight	41.05
H.S.Code	2926.90000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Ether odor
pH value	7	Melting point/ Freezing point[°C]	-46°C	Auto-ignition temperature [°C]	524°C
Flammability (solid, gas)	Flammable	Flash point [°C]	2°C	Boiling point [°C]	81.6°C
Evaporation rate	5.79	Vapour pressure [20°C]	9.7kPa	Vapour pressure mm/Hg	73
Vapour density	1.4	Density [g/cm3]	0.786	Relative density, gas (air=1)	1.4
Solubility in water [% weight]	Complete				

Packaging



Specification

Appearance	Clear colorless liquid
Density (d20°C /4°C)	0.782 - 0.783 g/ml
Acidity	Max 0.0002 meg/g
Alkalinity	Max 0.0002 meg/g
Identity (IR)	Passes test
Water (H2O)	Max 0.03%
Non-volatile matter	Max 0.0005%

UV transmittance at 195 nm	Min 75.0%
UV transmittance at 210 nm	Min 96.0%
UV transmittance at 220 nm	Min 97.0%
UV transmittance at 230 nm	Min 98.0%
UV transmittance at 240 nm	Min 99.0%
Gradient elution test at 210 nm	Max 10 mAU
Purity (by GC)	Min 99.9%
UV transmittance at 200 nm	Min 95%
Gradient elution test at 254 nm	Max 5mAU
Dilution test (1:1, 1:2, water)	Solution is clear , colorless

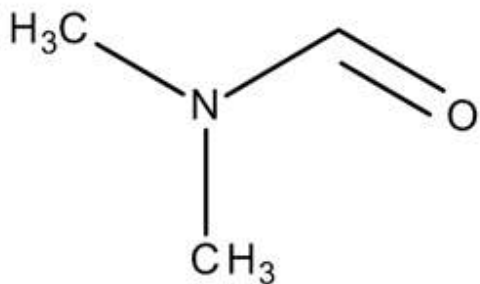
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 1648 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H302-H312-H319-H332 Precaution Statement: P210-P280-P303+P361+P353-P304+P340-P305+P351+P338-P501

DIMETHYL FORMAMIDE HPLC & SPECTROSCOPY

DMF; Dimethylformamide , N,N-Dimethyl Formamide

Product Code.	01037	Grade	
Purity	99%	CAS No.	68-12-2
Molecular Formula	H.CON(CH ₃) ₂	Molecular Weight	73.09
H.S.Code	2924.29900	Shelf Life	60 Months



Physical Properties

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

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99.7%
Weight/ mL at 20°C	0.947 - 0.949 g/ml

Water (H ₂ O)	Max 0.05%
Acidity (as HCOOH)	Max 0.002%
Non volatile matter	Max 0.001%
Minimum transmittance, after purging with nitrogen for not less than 10 minutes, in 10 mm curvette :	
at 270 nm	10%
at 275 nm	50%
at 290 nm	80%
at 300 nm	90%
From 330 nm	98%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07, GHS08

Signal Word: Danger

UN No.: 2265

IMCO Class No.: 3

Packing Group: III

Hazardous Statement: H226-H312-H319-H332-H360D

Precaution Statement: P201-P280-P305 + P351 + P338-P308 + P313

ETHER PETROLEUM 40?-60?C HPLC & SPECTROSCOPY

Petroleum Benzin 40-60°C

Product Code.	01133	Grade	
Purity		CAS No.	8032-32-4
Molecular Formula		Molecular Weight	0.00
H.S.Code	2710.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Gasoline or kerosene
Melting point/ Freezing point [°C]	< -73°C	Auto-ignition temperature [°C]	288°C	Flammability (solid, gas)	Flammable
Flash point [°C]	-40°C	Boiling point [°C]	40 - 60 °C	Initial boiling point [°C]	40 °C
Final boiling point [°C]	60 °C	Evaporation rate	10	Vapour pressure [20°C]	40 mm Hg @ 2°C
Vapour pressure mm/Hg	40 mm Hg @ 20C	Vapour density	2.5	Density [g/cm3]	0.60 - 0.75
Solubility in water [% weight]	Insoluble in water	Explosion limits - upper [%]	5.90%	Explosion limits -lower [%]	1.10%

Packaging

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Specification

Appearance	A clear colorless liquid with characteristic odor
Boiling range	40-60°C (min 90%)
Weight/ mL at 20°C	0.640 - 0.650 g
Acidity	Max 0.0005 meq/gm
Water (H2O)	Max 0.02%
Non volatile matter	Max 0.001%
UV absorbance (1 cm cell vs water)	
210 nm	Max 1.0
220 nm	Max 0.3

230 nm	Max 0.1
260 nm	Max 0.01

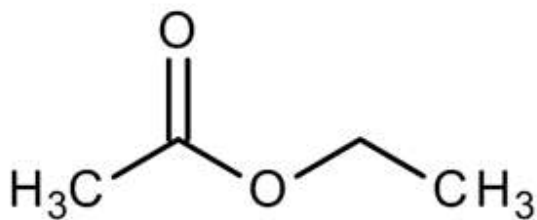
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07, GHS08, GHS09 Signal Word: Danger UN No.: 1268 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H304-H315-H336-H361-H373-H411 Precaution Statement: P210-P261-P273-P281-P301 + P310-P331

ETHYL ACETATE 99.8% HPLC /UV SPECTROSCOPY

EtOAc; Acetic acid ethyl ester; Acetic ether; Acetidin; Acetoxyethane; Ethyl acetic ester; Ethyl ethanoate; Vinegar naphtha

Product Code.	01142	Grade	
Purity	99.8%	CAS No.	141-78-6
Molecular Formula	C4H8O2	Molecular Weight	88.11
H.S.Code	2915.31000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fruity odor
Melting point/ Freezing point [°C]	-83 °C	Decomposition point [°C]	426°C	Flammability (solid, gas)	Flammable
Flash point [°C]	-4°C	Boiling point [°C]	77°C	Evaporation rate	6
Vapour pressure mm/Hg	76 @ 20C	Vapour density	3	Density [g/cm3]	0.902
Solubility in water [% weight]	1 ml/10ml water @ 25C	Explosion limits - upper [%]	11.50%	Explosion limits -lower [%]	2%

Packaging

Specification

Appearance	A clear Colourless liquid
Assay	Min 99.8%
Non volatile matter	Max 0.0005%
Acidity (as CH3COOH)	Max 0.0005 meq/g

Water (H ₂ O)	Max 0.01%
Minimum transmittance:	
at 255 nm	Min 10.0%
at 260 nm	Min 50.0%
at 263 nm	Min 80.0%
at 265 nm	Min 90.0%
From 280 nm	Min 98.0%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1173

IMCO Class No.: 3

Packing Group: II

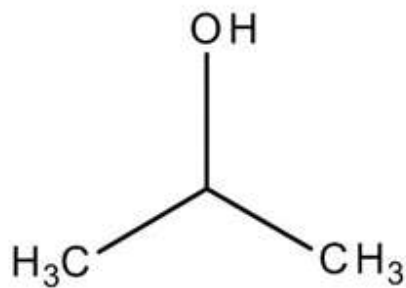
Hazardous Statement: H225-H319-H336

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

ISO-PROPYL ALCOHOL 99.8% HPLC/UV SPECTROSCOPY

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

Product Code.	02203	Grade	HPLC/UV Spectroscopy
Purity	99.8%	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 colorless liquid
Purity (by GC)	Min 99.8%
Non volatile matter	Max 0.0005%

Acidity (as C2H5COOH)	Max 0.0005 meq/g
Alkalinity	Max 0.0002 meq/g
Water (H2O)	Max 0.05%
Maximum UV absorbance (1 cm cell vs H2O):	
at 210 nm	1.00
at 220 nm	0.30
at 230 nm	0.10
at 260 nm	0.03
at 270 nm	0.01
at 300 nm	0.01

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

N-HEPTANE 99% HPLC/UV SPECTROSCOPY

Normal Heptane; Dipropyl Methane; Heptyl Hydride

Product Code.	01336	Grade	HPLC/UV Spectroscopy
Purity	99%	CAS No.	142-82-5
Molecular Formula	C7H16	Molecular Weight	100.21
H.S.Code	2901.29900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	mild odor - gasoline-like
Melting point/ Freezing point [°C]	-91 °C	Auto-ignition temperature [°C]	223°C	Flammability (solid, gas)	Flammable
Flash point [°C]	-4,0 °C	Boiling point [°C]	98 °C	Evaporation rate	2.8
Vapour pressure [20°C]	53.3 hPa at 20,0 °C	Vapour pressure mm/Hg	46 mm Hg @ 25 deg C	Vapour density	3.5
Density [g/cm3]	0.68	Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	>3
Explosion limits - upper [%]	7%	Explosion limits -lower [%]	1.10%		

Packaging

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Specification

Appearance	A clear colorless liquid
Assay	Min 99.0%

Non volatile matter	Max 0.0005%
Acidity (as CH ₃ COOH)	Max 0.001%
Water (H ₂ O)	Max 0.01%
Density (d _{20°C/4°C})	0.683-0.686 g/ml
Refractive index (20°C; 589 nm)	1.387 - 1.388
Maximum UV absorbance (1 cm cell vs H ₂ O):	
at 200 nm	1.0
at 210 nm	0.4
at 220 nm	0.15
at 230 nm	0.05
at 250 nm	0.01
at 270 nm	0.01

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07, GHS08, GHS09

Signal Word: Danger

UN No.: 1206

IMCO Class No.: 3

Packing Group: II

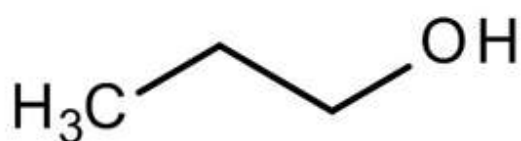
Hazardous Statement: H225-H304-H315-H336-H410

Precaution Statement: P210-P261-P273-P301 + P310-P331-P501

N-PROPYL ALCOHOL 99.5% AR

1-Propanol, Propan-1-ol

Product Code.	02205	Grade	
Purity	Min. 99.5%	CAS No.	71-23-8
Molecular Formula	CH ₃ .CH ₂ .CH ₂ OH	Molecular Weight	60.10
H.S.Code	2905.12100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Alcoholic odour
Melting point/ Freezing point [°C]	-127°C	Auto-ignition temperature [°C]	412°C	Flammability (solid, gas)	Flammable
Flash point [°C]	15°C	Boiling point [°C]	97°C	Evaporation rate	1.3
Vapour pressure [20°C]	33 mm Hg @ 20 °C	Vapour pressure mm/Hg	33 mm Hg @ 20 °C	Vapour density	2.1
Density [g/cm ³]	0.804	Solubility in water [% weight]	Infinitely soluble	Viscosity at 40°C [mm ² /s]	2.27 mPas at 20°C
Explosion limits - upper [%]	13.70%	Explosion limits -lower [%]	2.30%		

Packaging



Specification

Appearance	Clear colourless liquid
Assay (GC area %)	Min 99.5%
Identity (IR)	Conforms
Residue on evaporation	Max 0.0002%
Water (H ₂ O)	Max 0.02%
Acidity	Max 0.0002 meq/g
Alkalinity	Max 0.0002 meq/g
UV transmittance:	
at 230 nm	Min 70%
at 240 nm	Min 80%
From 270 nm	Min 98%

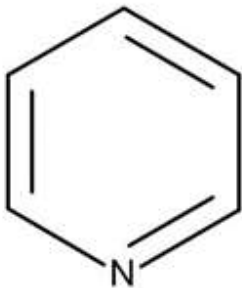
Safety Information and Hazard Symbols


Symbol: GHS02, GHS05, GHS07 Signal Word: Danger UN No.: 1274 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H318-H336 Precaution Statement: P210-P261-P280-P305 + P351 + P338

PYRIDINE 99.5% HPLC/UV SPECTROSCOPY

Azabenzene; Azine.

Product Code.	02224	Grade	HPLC/UV Spectroscopy
Purity	99.5%	CAS No.	110-86-1
Molecular Formula	C5H5N	Molecular Weight	79.10
H.S.Code	2933.31000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	colorless to light yellow	Odour	Fishy Stench odour
pH value	8.5 at 15.82 g/l at 25 °C	Melting point/ Freezing point [°C]	-42 °C	Auto-ignition temperature [°C]	482 °C
Flammability (solid, gas)	Flammable	Flash point [°C]	17 °C	Boiling point [°C]	115 °C
Vapour pressure [20°C]	18 mm Hg @ at 20°C	Vapour pressure mm/Hg	18 mm Hg @ at 20°C	Vapour density	2.73
Density [g/cm3]	0.978	Solubility in water [% weight]	Soluble in water	Partition coefficient Log Pow octanol / water at 20°C	0.65
Viscosity at 40°C [mm2/s]	0.95 mPas at 20°C	Explosion limits - upper [%]	12.40%	Explosion limits -lower [%]	1.80%

Packaging

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Specification

Appearance	A clear colorless liquid with characteristic odor
Assay	Min 99.5%

Density (at 25°C)	~0.98
UV absorbance (1 cm; Water)	
at 310 nm	Max 0.25
at 320 nm	Max 0.14
at 330 nm	Max 0.08
at 340 nm	Max 0.01
at 350 nm	Max 0.005

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1282

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225-H302-H312-H332

Precaution Statement: P210-P280

WATER HPLC/SPECTROSCOPY

Product Code.	02837	Grade	
Purity		CAS No.	7732-18-5
Molecular Formula	H2O	Molecular Weight	18.02
H.S.Code	2853.90100	Shelf Life	24 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Odorless
pH value	6 - 8 at 25 °C	Melting point/ Freezing point [°C]	0 °C	Boiling point [°C]	100 °C
Vapour pressure [20°C]	2.3 kPa (@ 20°C)	Vapour density	0.62	Density [g/cm3]	1
Solubility in water [% weight]	Completely miscible				

Specification

Appearance	Clear colourless liquid
pH	5 - 7
Residue on evaporation	Max 0.0005%
UV transmittance (with air as blank)	
at 200 nm	Min 100%
at 250 nm	Min 100%
Colour scale	Max 10 Hazen

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