

Эфиры

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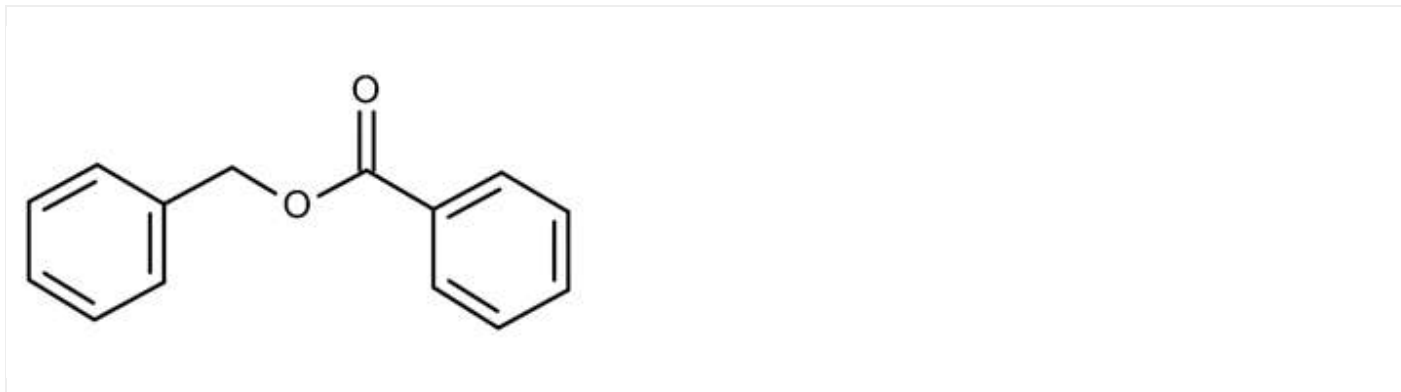
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BENZYL BENZOATE 99% EXTRAPURE

Confirming to BP specification Benzoic acid benzyl ester

Product Code.	00396	Grade	
Purity	99%	CAS No.	120-51-4
Molecular Formula	C ₆ H ₅ .COO.CH ₂ .C ₆ H ₅	Molecular Weight	212.25
H.S.Code	2916.31200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Faint aromatic odor
Melting point/ Freezing point [°C]	17 - 20 °C	Auto-ignition temperature [°C]	480°C	Flash point [°C]	158 °C
Boiling point [°C]	323 - 324 °C	Initial boiling point [°C]	323°C	Final boiling point [°C]	324 °C
Vapour pressure mm/Hg	0.000224 mm Hg @ 250C	Vapour density	7.31	Density [g/cm3]	1.118
Solubility in water [% weight]	Insoluble in water	Partition coefficient Log Pow octanol / water at 20°C	4		

Packaging



Specification

Appearance	A clear colorless oily liquid
Assay	Min 99%
Weight/ mL at 20°C	1.115 - 1.119 g
Freezing point	Min 17 deg C
Refractive index (20°C; 589 nm)	1.569 - 1.570
Acidity	Max 0.5 ml N%
Residue on ignition (as SO ₄)	Max 0.1%
Benzaldehyde (C ₆ H ₅ CHO)	Max 0.05%

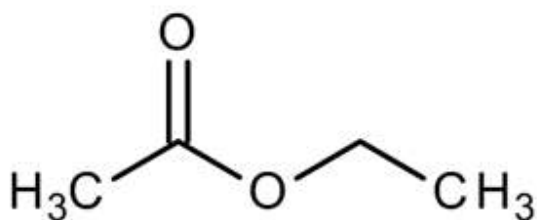
Safety Information and Hazard Symbols


Symbol: GHS07, GHS09 Signal Word: Warning UN No.: 3082 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H411 Precaution Statement: P273

ETHYL ACETATE 99.5% EXTRAPURE

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

Product Code.	01140	Grade	
Purity	99%	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

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Specification

Appearance	A clear Colourless liquid
Assay (GC area %)	Min 99%
Weight/ mL at 20°C	0.899 - 0.902 g
Refractive index (20°C; 589 nm)	1.370 - 1.373

Appearance of solution	Passes test
Acidic substances	Conforms
Acidity	Confirms
Methyl compounds (GC)	Confirms
Related substances (GC)	Confirms
Readily carbonisable substance	Confirms
Water (by KF)	Max 0.1%
Non volatile matter	Max 0.003%

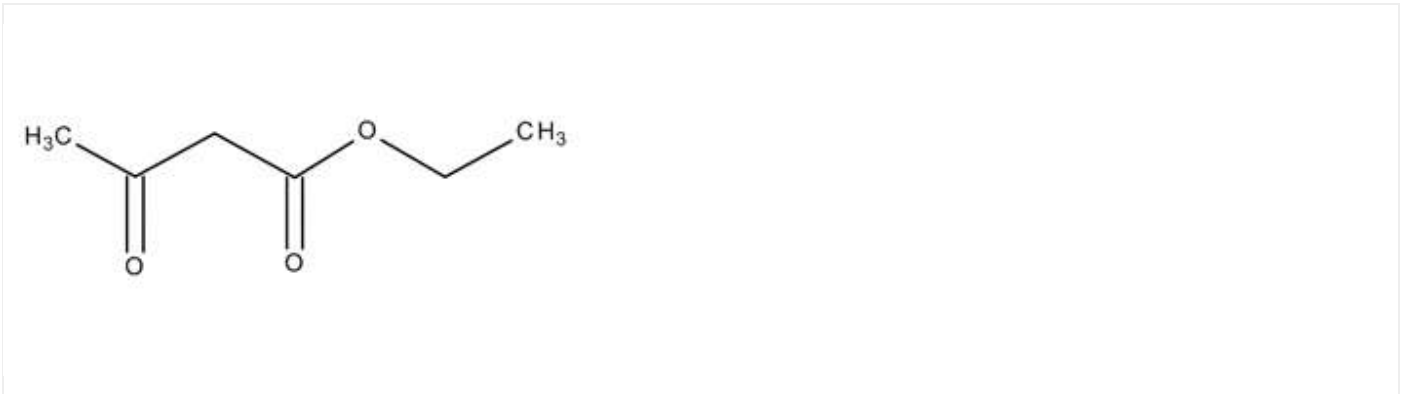
Safety Information and Hazard Symbols


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

ETHYL ACETOACETATE 98% FOR SYNTHESIS

EAA, Acetoacetic acid ethyl ester

Product Code.	01143	Grade	
Purity	98%	CAS No.	141-97-9
Molecular Formula	C6H10O3	Molecular Weight	130.15
H.S.Code	2918.30200	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Melting point/ Freezing point [°C]	-43 °C
Auto-ignition temperature [°C]	304 °C	Flash point [°C]	85 °C	Boiling point [°C]	181 °C
Vapour pressure mm/Hg	1 mm Hg at 28.5 °C	Vapour density	4.49	Density [g/cm3]	1.029 g/cm3 at 20 °C
Explosion limits - upper [%]	9.50%	Explosion limits -lower [%]	1.40%		

Packaging

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Specification

Appearance	A clear Colourless liquid
Assay	Min 98%
Density (d20°C/4°C)	1.028 - 1.030
Refractive index (20°C; 589 nm)	1.4180 - 1.4195

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

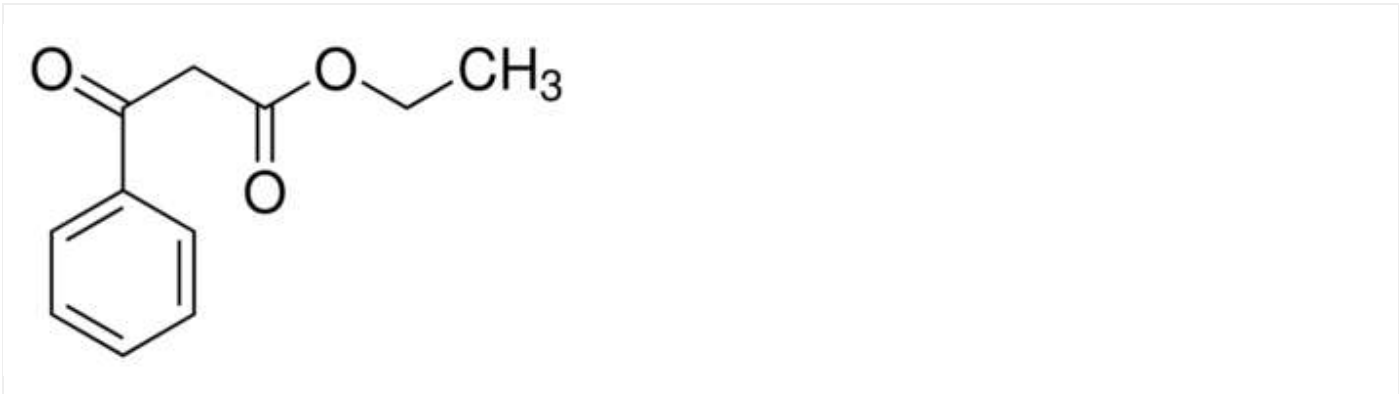
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

ETHYL BENZOYL ACETATE 88% FOR SYNTHESIS

Benzoylacetic acid ethyl ester, Ethyl 3-oxo-3-phenylpropionate

Product Code.	01151	Grade	
Purity	88%	CAS No.	94-02-0
Molecular Formula	C11H12O3	Molecular Weight	192.21
H.S.Code	2918.30900	Shelf Life	60 Months



Physical Properties

Packaging

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Specification

Appearance	Clear colorless or yellow to red to brown liquid
Assay	Min 88.0%
Density (at 20°C)	1.100-1.120

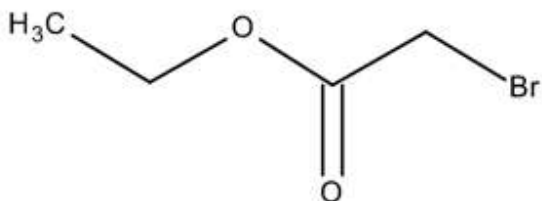
Safety Information and Hazard Symbols

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ETHYL BROMOACETATE 95% FOR SYNTHESIS

Bromoacetic acid ethyl ester

Product Code.	01153	Grade	For Synthesis
Purity	95%	CAS No.	105-36-2
Molecular Formula	C4H7BrO2	Molecular Weight	167.01
H.S.Code	2915.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Colorless to pale yellow	Odour	Pungent odour
Flash point [°C]	47 °C	Boiling point [°C]	159 °C	Vapour pressure mm/Hg	2.6 mm Hg @ 250C
Vapour density	5.8	Density [g/cm3]	1.506	Solubility in water [% weight]	Insoluble
Partition coefficient Log Pow octanol / water at 20°C	1.12				

Packaging

Specification

Appearance	Almost colorless to pale yellow, clear liquid (may darken on storage)
Assay	Min 95.0%
Density (d20°C/4°C)	1.499 - 1.505 g/ml

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 1603

IMCO Class No.: 6.1,3

Packing Group: II

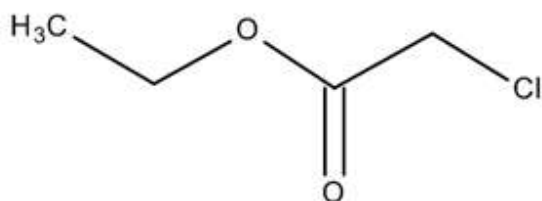
Hazardous Statement: H300-H310-H330

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

ETHYL CHLOROACETATE 98% FOR SYNTHESIS

Immiscible in water. Chloroacetic Acid ethyl ester; Ethylalpha-chloroacetate; Ethyl chloroethanoate; Ethylmonochloroacetate; Ethyl monochloroacetate

Product Code.	01156	Grade	For Synthesis
Purity	98%	CAS No.	105-39-5
Molecular Formula	C4H7ClO2	Molecular Weight	122.55
H.S.Code	2915.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fruity,Pungent
Melting point/ Freezing point [°C]	-26 °C	Critical temperature [°C]	344.85°C	Flash point [°C]	54 °C
Boiling point [°C]	143 °C	Vapour pressure [20°C]	4.4 hPa at 20 °C	Vapour density	4.23
Density [g/cm3]	1.1498	Solubility in water [% weight]	Insoluble		

Specification

Appearance	A clear colorless liquid
Assay	Min 98.0%
Density (d20°C/4°C)	1.149 - 1.151 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS06, GHS09

Signal Word: Danger

UN No.: 1181

IMCO Class No.: 6.1,3

Packing Group: II

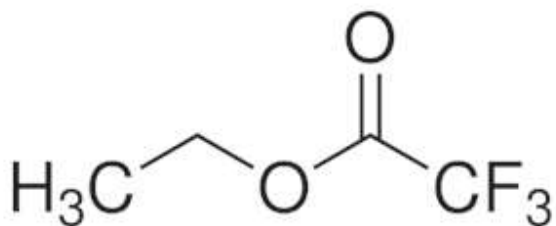
Hazardous Statement: H226-H301-H311-H318-H331-H400

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

ETHYL TRIFLUOROACETATE 98% FOR SYNTHESIS

Trifluoroacetic acid ethyl ester

Product Code.	01194	Grade	
Purity	98%	CAS No.	383-63-1
Molecular Formula	C ₄ H ₅ F ₃ O ₂	Molecular Weight	142.08
H.S.Code	2915.90900	Shelf Life	60 Months



Specification

Appearance	Clear colorless liquid
Assay (by GC)	Min 98.0%
Identity (IR)	Passes test
Density (at 25°C)	1.187-1.189 g/mL @ 20°C

Safety Information and Hazard Symbols



Symbol: GHS02, GHS05, GHS07

Signal Word: Danger

UN No.: 3272

IMCO Class No.: 3

Packing Group: II

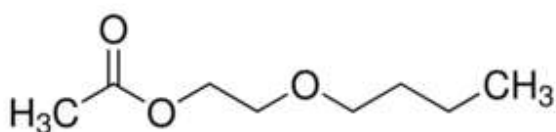
Hazardous Statement: H335-H315-H318-H225

Precaution Statement: 280-P305 + P351 + P338-P310-

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 98.5% FOR SYNTHESIS

Butyl cellosolve acetate, 2-Butoxyethyl acetate

Product Code.	01176	Grade	
Purity	98.5%	CAS No.	112-07-2
Molecular Formula	C ₈ H ₁₆ O ₃	Molecular Weight	160.21
H.S.Code	2915.39900	Shelf Life	60 Months



Specification

Appearance	A colorless liquid
Assay	MIn 98.5%
Identity (IR)	Conforms
Refractive index (20°C; 589 nm)	1.410-1.416
Density (at 20°C)	0.940-0.942 g/ml

Safety Information and Hazard Symbols

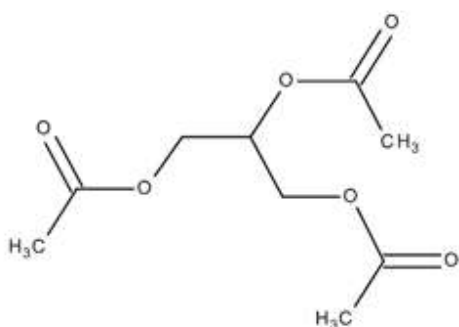


Symbol: GHS07
Signal Word: Warning
Hazardous Statement: H312-H332
Precaution Statement: P280

GLYCEROL TRIACETATE 97% FOR BIOCHEMISTRY

Confirms to USP Triacetin

Product Code.	01295	Grade	
Purity	97%	CAS No.	102-76-1
Molecular Formula	C ₉ H ₁₄ O ₆	Molecular Weight	218.21
H.S.Code	2915.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Characteristic odour
Melting point/ Freezing point [°C]	-37°C	Auto-ignition temperature [°C]	433°C	Flash point [°C]	138 °C
Boiling point [°C]	258 - 260 °C	Initial boiling point [°C]	258°C	Final boiling point [°C]	260 °C
Vapour pressure mm/Hg	0.00248 mm Hg @ 250C	Vapour density	7.53	Density [g/cm3]	1.158 g/mL at 20 °C
Solubility in water [% weight]	Moderately soluble in water (1-10%).	Explosion limits - upper [%]	7.73%	Explosion limits -lower [%]	1.05%

Packaging

Specification

Appearance	A clear colorless liquid with characteristic odor
Assay (on anhydrous basis)	97-100.5%
Identification as per USP	Passes test

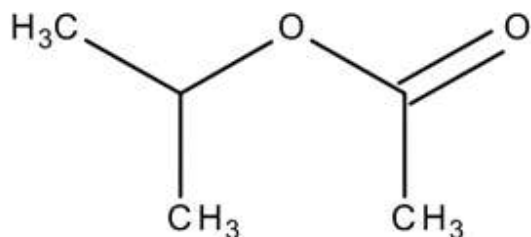
Specific gravity	1.152-1.158
Refractive index (20°C; 589 nm)	1.429 -1.430
Acidity	Max 0.005%
Water (H2O)	Max 0.2%

Safety Information and Hazard Symbols

ISO PROPYL ACETATE 99% EXTRAPURE

2-Acetoxypropane; 2-Propyl acetate; 2-Propyl ethanoate

Product Code.	02199	Grade	Extrapure
Purity	99%	CAS No.	108-21-4
Molecular Formula	C5H10O2	Molecular Weight	102.10
H.S.Code	2915.39100	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fruity odor
Melting point/ Freezing point [°C]	-89,5 °C	Auto-ignition temperature [°C]	425°C	Flammability (solid, gas)	Flammable
Flash point [°C]	12°C	Boiling point [°C]	82 °C	Evaporation rate	3
Vapour pressure [20°C]	43.2 hPa at 20,0 °C	Vapour density	3.5	Density [g/cm3]	0.87
Solubility in water [% weight]	Moderate (1-10%)	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	A clear colorless liquid
Purity (by GC)	Min 99.0%
Density (d20°C/4°C)	0.871 - 0.873 g/ml

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1220

IMCO Class No.: 3

Packing Group: II

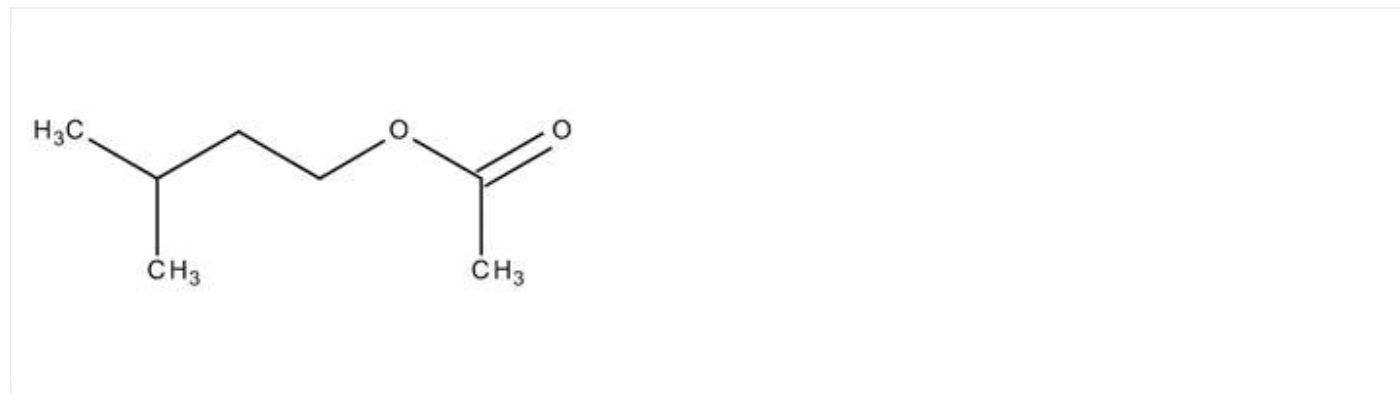
Hazardous Statement: H225-H319-H336

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

ISO-AMYL ACETATE 98% FOR SYNTHESIS

Acetic acid-3-methylbutyl ester, Isoamyl ethanoate, Isopentyl acetate

Product Code.	00255	Grade	For Synthesis
Purity	98%	CAS No.	123-92-2
Molecular Formula	C7H14O2	Molecular Weight	130.19
H.S.Code	2915.39900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Banana-like odor
Melting point/ Freezing point [°C]	-78 °C	Auto-ignition temperature [°C]	360 °C	Flammability (solid, gas)	Flammable
Flash point [°C]	25 °C	Boiling point [°C]	142 °C	Evaporation rate	0.42
Vapour pressure [20°C]	7.5 hPa	Vapour density	4.5	Density [g/cm3]	0.88
Relative density, liquid (water=1)	0.876	Solubility in water [% weight]	2 g/l at 25 °C	Partition coefficient Log Pow octanol / water at 20°C	2.25
Explosion limits - upper [%]	7.50%	Explosion limits -lower [%]	1.00%		

Packaging



Specification

Appearance	Clear colorless liquid
Assay	Min 98%
Water (H2O)	Max 0.1%
Isoamyl alcohol	Max 1.0%
Free acid (as acetic acid)	Max 0.1%
Density (d20°C/4°C)	0.872 - 0.873 g/ml

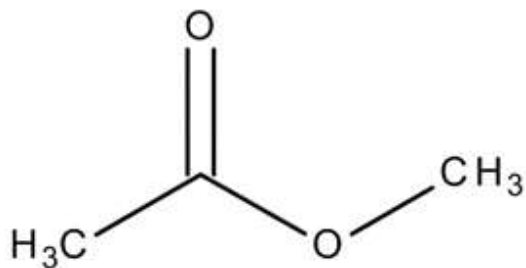
Safety Information and Hazard Symbols


Symbol: GHS02 Signal Word: Warning UN No.: 1104 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226 Precaution Statement: P210

METHYL ACETATE 99% FOR SYNTHESIS

Acetic acid methyl ester

Product Code.	01701	Grade	For Synthesis
Purity	99%	CAS No.	79-20-9
Molecular Formula	C3H6O2	Molecular Weight	74.08
H.S.Code	2915.39400	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Pleasant, fruity odor
Melting point/ Freezing point [°C]	-98 °C	Auto-ignition temperature [°C]	454°C	Flammability (solid, gas)	flammable
Flash point [°C]	-13 °C	Boiling point [°C]	57 - 58 °C	Initial boiling point [°C]	57°C
Final boiling point [°C]	58 °C	Vapour pressure [20°C]	217 hPa at 20 °C	Vapour density	2.8
Density [g/cm3]	0.9342	Solubility in water [% weight]	32g/100g water @ 20C	Partition coefficient Log Pow octanol / water at 20°C	0.18
Explosion limits - upper [%]	16%	Explosion limits -lower [%]	3%		

Packaging

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Specification

Appearance	A clear colorless liquid
Purity (by GC)	Min 99%
Density (d20°C/4°C)	0.932 - 0.934

Refractive index (20°C; 589 nm)

1.3605 - 1.3620

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1231

IMCO Class No.: 3

Packing Group: II

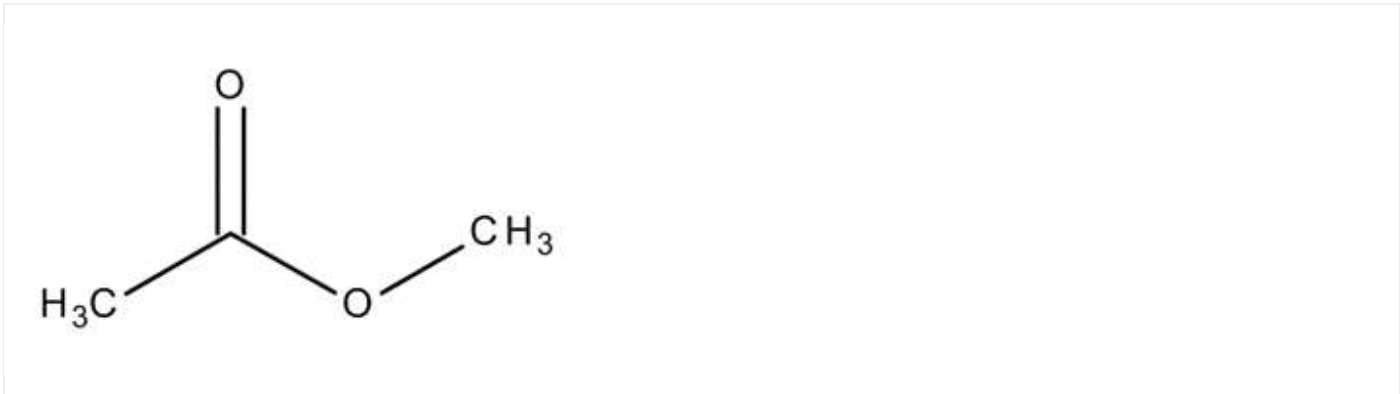
Hazardous Statement: H225-H319-H336

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

METHYL ACETATE AR

Acetic Acid Methyl Ester

Product Code.	01702	Grade	
Purity	99%	CAS No.	79-20-9
Molecular Formula	C3H6O2	Molecular Weight	74.08
H.S.Code	2915.39400	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Odour	Pleasant, fruity odour
Melting point/ Freezing point [°C]	-98.0°C	Auto-ignition temperature [°C]	454°C	Flammability (solid, gas)	Flammable
Flash point [°C]	-13°C	Boiling point [°C]	57 - 58 °C	Vapour pressure [20°C]	217 hPa
Vapour density	2.8	Relative density, liquid (water=1)	0.934 g/cm3 at 25 °C	Solubility in water	319 g/l at 20 °C
Partition coefficient Log Pow octanol / water at 20°C	log Pow: 0.18	Explosion limits - upper [%]	16 %(V	Explosion limits -lower [%]	3 %(V)

Packaging

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Specification

Appearance	A clear colorless liquid
Assay (GC area %)	Min 99.0%
Identity (IR)	Passes test
Density (d20°C/4°C)	0.932 - 0.934

Non volatile matter	Max 0.01%
Acidity (as CH ₃ COOH)	Max 0.005%
Methanol (CH ₃ OH)	Max 0.2%
Water (by KF)	Max 0.3%

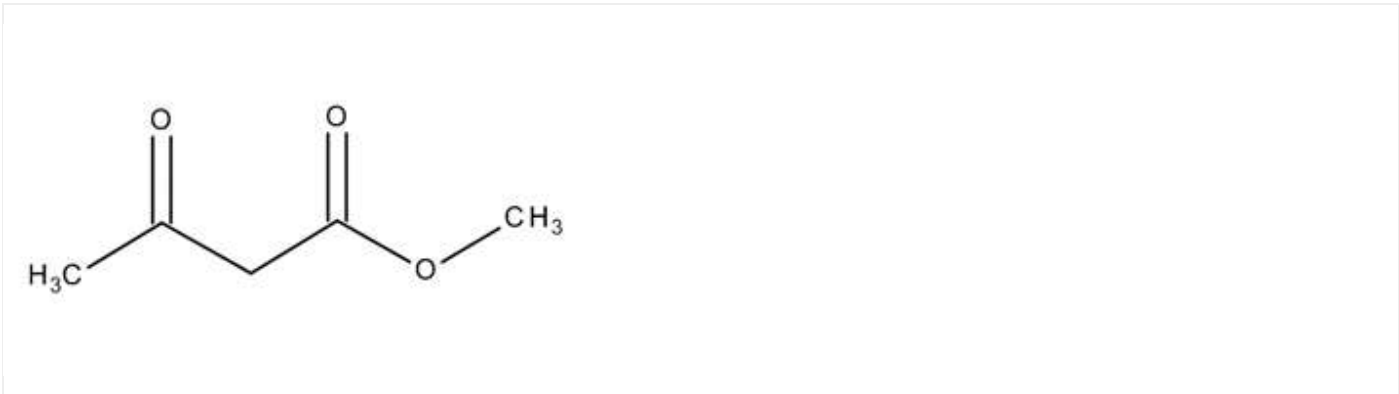
Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Danger UN No.: 1231 IMCO Class No.: 3 Packing Group: II Hazardous Statement: H225-H319-H336 Precaution Statement: P210-P261-P305 + P351 + P338 Risk Statement: 11-36-66-67 Safety Statement: 16-26-29-33

METHYL ACETOACETATE

Methyl 3-oxobutanoate, Methyl 3-oxobutyrate, Acetoacetic acid methyl ester

Product Code.	01703	Grade	
Purity	98%	CAS No.	105-45-3
Molecular Formula	C5H8O3	Molecular Weight	116.12
H.S.Code	2918.30400	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear colorless	Melting point/ Freezing point [°C]	-80 °C
Flash point [°C]	70 °C	Boiling point [°C]	169 - 170 °C	Initial boiling point [°C]	169°C
Final boiling point [°C]	170 °C	Vapour pressure [20°C]	1.7 mmHg @ 20 °C	Vapour pressure mm/Hg	1.7 mmHg @ 20 °C
Vapour density	4	Density [g/cm3]	1.076	Solubility in water [% weight]	Miscible with water

Packaging

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Specification

Appearance	A clear liquid
Assay	Min 98%
Colour scale	Max 20 APHA
Density (d20°C/4°C)	1.076 - 1.077
Refractive index (20°C; 589 nm)	1.4180 - 1.4190

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

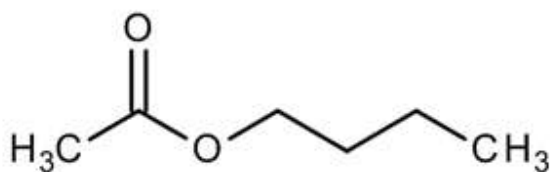
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

N-BUTYL ACETATE 98% EXTRAPURE

Butyl acetate; n-Butyl ester of acetic acid; Butyl ethanoate

Product Code.	00547	Grade	
Purity	99%	CAS No.	123-86-4
Molecular Formula	C6H12O2	Molecular Weight	116.16
H.S.Code	2915.33000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Mild, fruity odor
Melting point/ Freezing point [°C]	-78 °C	Flammability (solid, gas)	Flammable	Flash point [°C]	23 °C
Boiling point [°C]	124 - 126 °C	Initial boiling point [°C]	124 °C	Final boiling point [°C]	126 °C
Evaporation rate	1	Vapour pressure [20°C]	15 @ 25C	Vapour density	4.01
Density [g/cm3]	0.8822	Relative density, gas (air=1)	0.88	Solubility in water [% weight]	0.7% @ 20C
Partition coefficient Log Pow octanol / water at 20°C	1.82	Explosion limits - upper [%]	7.60%	Explosion limits -lower [%]	1.70%

Packaging



Specification

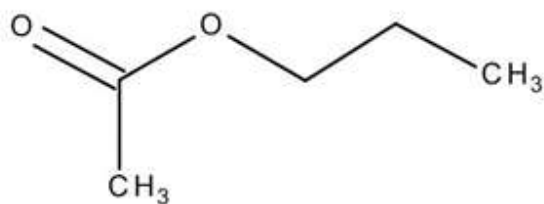
Appearance	A clear, colorless liquid
Assay (GC area %)	Min 99%
Density (d20°C/4°C)	0.879 - 0.881
Free acid (as acetic acid)	Max 0.02%
n-Butanol	Max 1.5%
Water (H2O)	Max 0.2%
Identity	Passes test

Safety Information and Hazard Symbols


Symbol: GHS02, GHS07 Signal Word: Warning UN No.: 1123 IMCO Class No.: 3 Packing Group: III Hazardous Statement: H226-H336 Precaution Statement: P261

N-PROPYL ACETATE 98% FOR SYNTHESIS

Product Code.	02200	Grade	For Synthesis
Purity	98%	CAS No.	109-60-4
Molecular Formula	C5H10O2	Molecular Weight	102.13
H.S.Code	2915.39900	Shelf Life	60 Months



Specification

Appearance	Colorless liquid
Purity (by GC)	Min 98.0%
Refractive index (20°C; 589 nm)	1.382 - 1.386
Density (at 20°C)	0.886 – 0.888 g/ml
Water (H ₂ O)	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS02, GHS07

Signal Word: Danger

UN No.: 1276

IMCO Class No.: 3

Packing Group: II

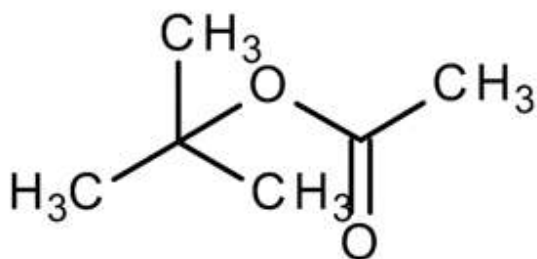
Hazardous Statement: H225-H319-H336

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

TERT-BUTYL ACETATE 99% EXTRAPURE

TBAc; acetic acid tert-butyl ester; t-butyl acetate

Product Code.	00549	Grade	
Purity	99%	CAS No.	540-88-5
Molecular Formula	C6H12O2	Molecular Weight	116.16
H.S.Code	2915.33000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Colorless	Odour	Fruity
Flammability (solid, gas)	Flammable	Flash point [°C]	16.7°C	Boiling point [°C]	98°C
Vapour density	4.01	Density [g/cm3]	0.8665	Solubility in water [% weight]	Partially soluble in cold water
Partition coefficient Log Pow octanol / water at 20°C	0	Explosion limits -lower [%]	1.50%		

Packaging



Specification

Appearance	A clear, colorless liquid
Assay (GC area %)	Min. 99%

Density (d20°C/4°C)

0.865 – 0.866

Safety Information and Hazard Symbols



Symbol: GHS02

Signal Word: Danger

UN No.: 1123

IMCO Class No.: 3

Packing Group: II

Hazardous Statement: H225

Precaution Statement: P210

По вопросам продаж и поддержки обращайтесь:

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