2,2,4-Trimethylpentane

Isooctane

Danger
H225 H304 H315 H336 H410
P210 P243 P280 P273 P301+P331 P302+P352
P304+P340 P309+P310

CAS 540-84-1
Index 601-009-00-8
EINECS: 208-759-1
UN: 1262
ADR 3,II
Flash Pt: -12 °C

Not to be used as power or heating fuel.

$(CH_3)_2CHCH_2C(CH_3)_3$
M.W. 114.23 g/mol
Density: 0.692 g/cm³ (20 °C)
Boiling Pt: 99.2 °C (1013 hPa)
Melting Pt: -107 °C
Storage Temperature: Ambient temperature

2,2,4-Trimethylpentane HiPerSolv CHROMANORM® for HPLC

Filtered 0.2 µm filter, packaged under nitrogen

Assay (GC)	Min. 99.5 %
Water	Max. 0.01 %
Non-volatile residue	Max. 0.0005 %
Acidity	Max. 0.0005 meq/g
Alkalinity	Max. 0.0002 meq/g
Transmittance (220 nm)	Min. 70 %
Transmittance (235 nm)	Min. 80 %
Transmittance (255 nm)	Min. 98 %
Conforms to BDH 15246	Passes test

Cat. No.	Pk	Pack type
83630.290	1 l	Glass bottle
83630.320	2,5 l	Glass bottle

2,2,4-Trimethylpentane SPECTRONORM® for spectroscopy

Filtered 0.2 µm filter, packaged under nitrogen

Assay (on anhydrous substance)	Min. 99.5 %
Colouration	Max. 10 APHA
Density (20/4)	0.690 to 0.695
n 20/D	1.390 to 1.392
Water	Max. 0.02 %
Transmittance (210 nm)	Min. 45 %
Transmittance (220 nm)	Min. 73 %
Transmittance (230 nm)	Min. 85 %
Transmittance (240 nm)	Min. 92 %
Transmittance (from 255 nm)	Min. 98 %

Cat. No.	Pk	Pack type
28776.293	1 l	Glass bottle
28776.320	2,5 l	Glass bottle

2,2,4-Trimethylpentane AnalaR NORMAPUR® ACS, Reag. Ph. Eur. analytical reagent

Assay (on anhydrous substance)	Min. 99.5 %
Acidity	Max. 0.0003 meq/g
Colouration	Max. 10 APHA
Density (20/20)	0.691 to 0.696
Substances discoloured by H_2SO_4	Max. 35 APHA
Total S (as SO_4)	Max. 10 ppm
Al (Aluminium)	Max. 0.5 ppm
Ba (Barium)	Max. 0.1 ppm
Cd (Cadmium)	Max. 0.05 ppm
Cr (Chromium)	Max. 0.02 ppm
Fe (Iron)	Max. 0.1 ppm
Mg (Magnesium)	Max. 0.1 ppm
Na (Sodium)	Max. 0.5 ppm
Pb (Lead)	Max. 0.1 ppm
Sr (Strontium)	Max. 0.05 ppm
Conforms to BDH 10359	Passes test
Conforms to Reag. Ph.Eur.	Passes test
IR Spectrum	Passes test
Boiling point	99 to 100 °C
Density (20/4)	0.690 to 0.695
n 20/D	1.391 to 1.393
Evaporation residue	Max. 10 ppm
Water	Max. 100 ppm
B (Boron)	Max. 0.02 ppm
Ca (Calcium)	Max. 0.5 ppm
Co (Cobalt)	Max. 0.02 ppm
Cu (Copper)	Max. 0.02 ppm
K (Potassium)	Max. 0.1 ppm
Mn (Manganese)	Max. 0.02 ppm
Ni (Nickel)	Max. 0.02 ppm
Sn (Tin)	Max. 0.1 ppm
Zn (Zinc)	Max. 0.1 ppm
Conforms to ACS	Passes test

Cat. No.	Pk	Pack type
28781.291	1 l	Glass bottle
28781.325	2,5 l	Glass bottle
28781.460	25 l	Metal drum

2,2,4-Trimethylpentane, dehydrated (max. 0.01% H_2O) GPR RECTAPUR® for synthesis

Assay	Min. 99 %
IR Spectrum	Passes test
Density (20/4)	0.690 to 0.695
Free acidity	Max. 0.0004 meq/g
Evaporation residue	Max. 50 ppm
Water	Max. 100 ppm
Conforms to BDH 30518	Passes test

Cat. No.	Pk	Pack type
28780.322	2,5 l	Glass bottle
28780.366	5 l	Metal can

2,2,4-Trimethylpentane TECHNICAL

Assay	Min. 98 %
n 20/D	1.391 to 1.393

Cat. No.	Pk	Pack type
28775.290	1 l	Glass bottle
28775.368	5 l	Metal can
28775.461	25 l	Metal drum

2,4,4-Trimethylpentene

Diisobutylene

Danger
H225 H304 H411
P210 P280 P273 P301+P310 P331

CAS 25167-70-8
EINECS: 246-690-9
UN: 2050
ADR 3,II
Flash Pt: -6 °C

$(CH_3)_3CCH_2C(CH_3)=CH_2+(CH_3)_3CCH=C(CH_3)_2$
M.W. 112.22 g/mol
Density: 0.71 g/cm³ (20 °C)
Boiling Pt: 101 to 102 °C (1013 hPa)
Melting Pt: -106 °C
Storage Temperature: Ambient temperature

2,4,4-Trimethylpentene TECHNICAL

Assay	Min. 90 %

Cat. No.	Pk	Pack type
23416.263	500 ml	Glass bottle

1,3,7-Trimethylxanthine

See Caffeine p.90