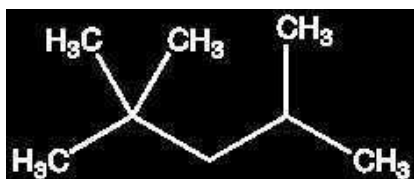


2,2,4-TRIMETHYLPENTANE



- Synonyms: Isooctane, Isobutyltrimethylmethane, iso-Octane
- C_8H_{18}
- $M = 114,26 \text{ g/mol}$
- CAS [540-84-1]
- EINECS-No.: 208-759-1
- Density: $0,69 \text{ g/cm}^3$
- Solub. in water: (25 °C): $0,56 \text{ mg/l}$
- Melting point: -107 °C
- Boiling point: 99 °C
- Flash pt. -12 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) 51 hPa
- Dielectric const.: (20 °C) $1,9$
- LD 50 (oral, rat): $> 2000 \text{ mg/kg}$
- EC-Index-No.: 601-009-00-8
- ADR: 3 F1 II UN 1262
- IMDG: 3 II UN 1262
- IATA/ICAO: 3 II UN 1262
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H400 - H410 - H315 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P321 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, solvent for fat and oil extractions; in determining octane numbers of fuels.

IS0153 2,2,4-Trimethylpentane, EssentQ®



assay (G.C.) min. 99 %
 identity (IR-spectrum) passes test
 density (20°/4°) 0,691 - 0,693
 acidity max. 0,001 meq/g
 copper (Cu) max. 0,2 ppm
 iron (Fe) max. 0,5 ppm
 lead (Pb) max. 0,2 ppm

nickel (Ni) max. 0,2 ppm
 sulfur compounds (as S) max. 0,002 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,02 %

ART. NO.	VOLUME	CONTAINER
IS01531000	1 l	0
IS01532500	2,5 l	0
IS0153005P	5 l	0
IS0153025A	25 l	0

IS0154 2,2,4-Trimethylpentane, ExpertQ®, for analysis, ACS, Reag. Ph Eur



assay (G.C.) min. 99,5 %
 identity (IR-spectrum) passes test
 density (20°/4°) 0,691 - 0,693
 density (20°/20°) 0,691 - 0,696
 boiling range (min. 95 %) 98 - 100 °C
 colour (Hazen) max. 10
 refractive index $n_{20/D}$ 1,391 - 1,393
 acidity max. 0,0003 meq/g
 aluminium (Al) max. 0,5 ppm
 barium (Ba) max. 0,1 ppm
 boron (B) max. 0,02 ppm
 cadmium (Cd) max. 0,05 ppm
 calcium (Ca) max. 0,5 ppm
 chromium (Cr) max. 0,02 ppm
 cobalt (Co) max. 0,02 ppm

copper (Cu) max. 0,02 ppm
 iron (Fe) max. 0,1 ppm
 lead (Pb) max. 0,1 ppm
 magnesium (Mg) max. 0,1 ppm
 manganese (Mn) max. 0,02 ppm
 nickel (Ni) max. 0,02 ppm
 tin (Sn) max. 0,1 ppm
 zinc (Zn) max. 0,1 ppm
 sulfur compounds (as S) max. 0,005 %
 substances darkened by H_2SO_4 passes test
 min. transmission in a 1 cm cell
 between 250 and 420 nm 98 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,01 %

ART. NO.	VOLUME	CONTAINER
IS01541000	1 l	0
IS01542500	2,5 l	0

IS0156 2,2,4-Trimethylpentane, HPLC grade



assay (G.C.) min. 99,5 %
 identity (IR-spectrum) passes test
 density (20°/4°) 0,691 - 0,693
 acidity max. 0,0002 meq/g
 alkalinity max. 0,0002 meq/g
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength
 T(%) A (AU)
 210 nm 50 % 0,301 AU
 220 nm 80 % 0,097 AU
 245 nm 98 % 0,009 AU
 Microfiltered through membranes of pore diameter 0,22 µm

ART. NO.	VOLUME	CONTAINER
IS01561000	1 l	0
IS01562500	2,5 l	0

IS0157 2,2,4-Trimethylpentane, for GC residue analysis



assay (G.C.) min. 99,5 %
 identity (IR-spectrum) passes test
 density (20°/4°) 0,691 - 0,693
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,01 %
 Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. ECD, from 1,2,4-trichlorobenzene to decachlorobiphenyl, no peaks are obtained greater than 3 pg/ml as lindane. No peaks are obtained in vicinity of

2,4,5-trichlorobiphenyl. Suitable for highly volatile halogenated hydrocarbons trace analysis. ECD, from dichloromethane to 1,2,4-trichlorobenzene, no peaks are obtained greater than 1 ng/ml as tetrachloromethane.
 Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis. FID, from 1-octanol to 1-tetradecanol, no peaks are obtained greater than 5 ng/ml as 1-tetradecanol. No peaks are obtained in vicinity of pyrene.

ART. NO.	VOLUME	CONTAINER
IS01571000	1 l	0
IS01572500	2,5 l	0

IS0167 2,2,4-Trimethylpentane, GC-MS



assay (G.C.) min. 99,5 %
 colour (Hazen) max. 10
 identity (IR-spectrum) passes test
 residue on evaporation max. 3 ppm
 water (K.F.) max. 0,05 %

GC/MSD (retention range n-undecane to n-tetracontane, scanning area 30 - 600 amu, individual signals (n- tetradecane standard)) max. 3,0 ng/ml (ppb)
 Suitable for residue analysis

ART. NO.	VOLUME	CONTAINER
IS01671000	1 l	0
IS01672500	2,5 l	0

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z