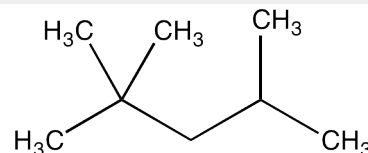


2,2,4-Trimethylpentane, for GC residue analysis
Identification

C_8H_{18}
 M = 114,26 g/mol
 CAS [540-84-1]
 EC number: 208-759-1
 Taric code: 2901 10 00


Synonyms

Isooctane, Isobutyltrimethylmethane, iso-Octane

Applications

analytical chemistry, solvent for fat and oil extractions; in determining octane numbers of fuels.

Specifications

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.

Physical data

- Density: 0,69 g/cm³
- Solub. in water: (25 °C): 0,56 mg/l
- Melting point: -107 °C
- Boiling point: 99 °C
- Flash point: -12 °C
- Ignition temperature: 410 °C
- Vapour pressure: (20 °C) 51 hPa
- Viscosity: (22 °C) 0,51 mPas
- Dielectric const.: (20 °C) 1,9
- Evap. heat: (99 °C) 334 KJ/kg
- Saturation conc.: (20 °C) 239 g/m³
- Expl. limit (upper): 6 Vol%
- Expl. limit (lower): 1 Vol%
- pH~ 7

Safety - GHS

Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapour.
 H304: May be fatal if swallowed and enters airways.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
 H315: Causes skin irritation.
 H336: May cause drowsiness or dizziness.


Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P370+P378: In case of fire: Use ... for extinction.
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 3 F1 II • UN 1262 • OCTANES
- IMDG: 3 II • UN 1262 • OCTANES
- IATA/ICAO: 3 II • UN 1262 • OCTANES
- PAX: 305
- CAO: 307
- 15°C - 25°C