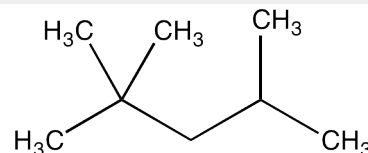


Identification

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 %	cobalt (Co).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,02 ppm
density (20°/4°).....	0,691 - 0,693	iron (Fe).....	max. 0,1 ppm
density (20°/20°).....	0,691 - 0,696	lead (Pb).....	max. 0,1 ppm
boiling range (min. 95 %).....	98 - 100 °C	magnesium (Mg).....	max. 0,1 ppm
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,02 ppm
refractive index n _{20/D}	1,391 - 1,393	nickel (Ni).....	max. 0,02 ppm
acidity.....	max. 0,0003 meq/g	tin (Sn).....	max. 0,1 ppm
aluminium (Al).....	max. 0,5 ppm	zinc (Zn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	sulphur compounds (as S).....	max. 0,005 %
boron (B).....	max. 0,02 ppm	substances darkened by H ₂ SO ₄	passes test
cadmium (Cd).....	max. 0,05 ppm	min. transmission in a 1 cm cell between 250 and 420 nm	98 %
calcium (Ca).....	max. 0,5 ppm	residue on evaporation.....	max. 0,001 %
chromium (Cr).....	max. 0,02 ppm	water (K.F.).....	max. 0,01 %

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