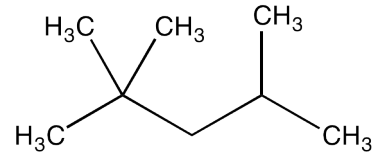


**Identification**

$C_8H_{18}$   
 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 %	min. transmission/max. absorbance	
identity (IR-spectrum).....	passes test	in a 1,0 cm cell at	
density (20°/4°).....	0,691 - 0,693	wavelength:	T(%) A (AU)
acidity.....	max. 0,0002 meq/g	210 nm.....	50 % 0,301 AU
alkalinity.....	max. 0,0002 meq/g	220 nm.....	80 % 0,097 AU
residue on evaporation.....	max. 0,0002 %	245 nm.....	98 % 0,009 AU
water (K.F.).....	max. 0,01 %		

Microfiltered through membranes  
of pore diameter 0,22 µm

**Packaging**
**Packaging Code**

1 l  IS01561000  
 2,5 l  IS01562500

**Physical data**

- Density: 0,69 g/cm<sup>3</sup>
- 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/m<sup>3</sup>
- 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.  
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.  
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
 P321: Specific treatment (see on this label).  
 P405: Store locked up.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): > 2000 mg/kg
- MAK: 500 ml/m<sup>3</sup>, 2400 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 5

**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
- Store between 15°C and 25°C