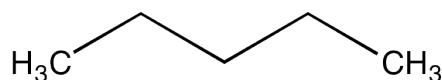


**Identification**

$C_5H_{12}$   
 M = 72,15 g/mol  
 CAS [109-66-0]  
 EC number: 203-692-4  
 Taric code: 2901 10 00


**Synonyms**

1,3-Dimethylpropane, Diethyl methane



**Applications**

synthesis of organic products, analytical chemistry, reference material, chromatography.

**Specifications**

assay (G.C.).....	min. 99 %	copper (Cu).....	max. 0,000002 %
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,00001 %
density (20°/4°).....	0,625 - 0,627	lead (Pb).....	max. 0,00001 %
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,00001 %
acidity.....	max. 0,0002 meq/g	manganese (Mn).....	max. 0,000002 %
aluminium (Al).....	max. 0,00005 %	nickel (Ni).....	max. 0,000002 %
barium (Ba).....	max. 0,00001 %	tin (Sn).....	max. 0,00001 %
boron (B).....	max. 0,000002 %	zinc (Zn).....	max. 0,00001 %
cadmium (Cd).....	max. 0,000005 %	sulfur compounds (as S).....	max. 0,005 %
calcium (Ca).....	max. 0,00005 %	substances darkened by H2SO4.....	passes test
chromium (Cr).....	max. 0,000002 %	residue on evaporation.....	max. 0,001 %
cobalt (Co).....	max. 0,000002 %	water (K.F.).....	max. 0,01 %

**Packaging**
**Packaging Code**

1 l  PE00961000  
 2,5 l  PE00962500

**Physical data**

- Density: 0,63 g/cm<sup>3</sup>
- Solub. in water: (25 °C): 0,04 g/l
- Melting point: -129,7 °C
- Boiling point: 36,1 °C
- Flash point: -48 °C
- Ignition temperature: 285 °C
- Vapour pressure: (20 °C) 573 hPa
- Dielectric const.: (20 °C) 1,8
- Evap. heat: (36 °C) 383 KJ/kg
- Saturation conc.: (20 °C) 1689 g/m<sup>3</sup>
- Expl. limit (upper): 8 Vol%
- Expl. limit (lower): 1,4 Vol%

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H225: Highly flammable liquid and vapour.  
 H304: May be fatal if swallowed and enters airways.  
 H336: May cause drowsiness or dizziness.  
 H411: Toxic to aquatic life with long lasting effects.  
 EUH066: Repeated exposure may cause skin dryness or cracking.


**Precautionary Statements:**

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.  
 P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
 P405: Store locked up.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- MAK: 1000 ml/m<sup>3</sup>, 3000 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 5

**Transport/storage**

- ADR: 3 F1 II • UN 1265 • PENTANES, liquid
- IMDG: 3 II • UN 1265 • PENTANES
- IATA/ICAO: 3 II • UN 1265 • PENTANES
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C