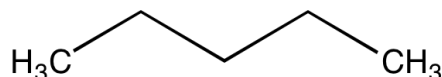


Identification

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 %	min. transmission/max. absorbance	
identity (IR-spectrum).....	passes test	in a 1,0 cm cell at	
density (20°/4°).....	0,625 - 0,627	wavelength:	T(%) A (AU)
acidity.....	max. 0,0002 meq/g	210 nm.....	50 % 0,301 AU
alkalinity.....	max. 0,0002 meq/g	230 nm.....	90 % 0,046 AU
residue on evaporation.....	max. 0,0002 %	240 nm.....	98 % 0,010 AU
water (K.F.).....	max. 0,01 %		

Microfiltered through membranes
of pore diameter 0,22 µm

Physical data

- Density: 0,63 g/cm³
- 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/m³
- 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/m³ , 3000 mg/m³
- 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