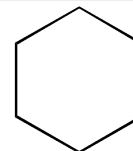


**Identification**

$C_6H_{12}$   
 M = 84,16 g/mol  
 CAS [110-82-7]  
 EC number: 203-806-2  
 Taric code: 2902 11 00


**Synonyms**

Hexahydrobenzene, Hexamethylene, Naphthene





**Applications**

solvents, analytical chemistry, synthesis of organic products.

**Specifications**

assay (G.C.).....	min. 99,7 %	copper (Cu).....	max. 0,000002 %
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,00001 %
density (20°/4°).....	0,776 - 0,780	lead (Pb).....	max. 0,00001 %
density (20°/20°).....	0,779 - 0,781	magnesium (Mg).....	max. 0,00001 %
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,000002 %
appearance.....	clear	nickel (Ni).....	max. 0,000002 %
boiling point.....	80 - 81 °C	tin (Sn).....	max. 0,00001 %
melting point.....	min. 6,0 °C	zinc (Zn).....	max. 0,00001 %
acidity.....	max. 0,0003 meq/g	aromatic hydrocarbons (as C6H6).....	max. 0,05 %
aluminium (Al).....	max. 0,00005 %	cyclohexene (G.C.).....	max. 0,05 %
barium (Ba).....	max. 0,00001 %	ethanol (G.C.).....	max. 0,01 %
boron (B).....	max. 0,000002 %	substances darkened by H2SO4.....	passes test
cadmium (Cd).....	max. 0,000005 %	residue on evaporation.....	max. 0,0005 %
calcium (Ca).....	max. 0,00005 %	water (K.F.).....	max. 0,01 %
chromium (Cr).....	max. 0,000002 %		
cobalt (Co).....	max. 0,000002 %		

**Packaging**
**Packaging Code**

1 l  CI00321000  
 2,5 l  CI00322500  
 5 l  CI0032005L  
 25 l  CI0032025A

**Physical data**

- Density: 0,78 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 55 mg/l
- Melting point: 6 °C
- Boiling point: 80,7 - 81 °C
- Flash point: -18 °C
- Ignition temperature: 260 °C
- Vapour pressure: (20 °C) 103 hPa
- Refraction index: (n 20 °C/D) 1,4264
- Viscosity: (kinetic, 20 °C) 1,26 mm<sup>2</sup>/s
- Dielectric const.: (20 °C) 2,0
- Evap. heat: (81 °C) 389 KJ/kg
- Saturation conc.: (20 °C) 357 g/m<sup>3</sup>
- Expl. limit (upper): 8,3 Vol%
- Expl. limit (lower): 1,2 Vol%

**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): 12705 mg/kg
- MAK: 200 ml/m<sup>3</sup>, 700 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 4

**Transport/storage**

- ADR: 3 F1 II • UN 1145 • CYCLOHEXANE
- IMDG: 3 II • UN 1145 • CYCLOHEXANE
- IATA/ICAO: 3 II • UN 1145 • CYCLOHEXANE
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C