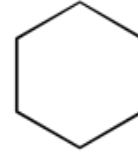


**Identification**

C<sub>6</sub>H<sub>12</sub>  
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. 99,5 %	nickel (Ni).....	max. 0,2 ppm
identity (IR-spectrum).....	passes test	cyclohexene (G.C.).....	max. 0,05 %
density (20°/4°).....	0,776 - 0,780	aromatic hydrocarbons (as C <sub>6</sub> H <sub>6</sub> ).....	max. 0,05 %
acidity.....	max. 0,001 meq/g	sulphur compounds (as S).....	max. 0,005 %
copper (Cu).....	max. 0,2 ppm	substances darkened by H <sub>2</sub> SO <sub>4</sub> .....	passes test
iron (Fe).....	max. 0,5 ppm	residue on evaporation.....	max. 0,001 %
lead (Pb).....	max. 0,2 ppm	water (K.F.).....	max. 0,02 %

**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.  
H315: Causes skin irritation.  
H336: May cause drowsiness or dizziness.  
H304: May be fatal if swallowed and enters airways.  
H410: Very toxic to aquatic life with long lasting effects.

**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 1145 • CYCLOHEXANE
- IMDG: 3 II • UN 1145 • CYCLOHEXANE
- IATA/ICAO: 3 II • UN 1145 • CYCLOHEXANE
- PAX: 305
- CAO: 307
- 10°C - 30°C