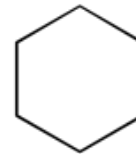


Identification

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 %	cobalt (Co).....	max. 0,000002 %
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,000002 %
density (20°/4°).....	0,776 - 0,780	iron (Fe).....	max. 0,00001 %
density (20°/20°).....	0,779 - 0,781	lead (Pb).....	max. 0,00001 %
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,00001 %
appearance.....	clear	manganese (Mn).....	max. 0,000002 %
boiling point.....	80 - 81 °C	nickel (Ni).....	max. 0,000002 %
melting point.....	min. 6,0 °C	tin (Sn).....	max. 0,00001 %
acidity.....	max. 0,0003 meq/g	zinc (Zn).....	max. 0,00001 %
aluminium (Al).....	max. 0,00005 %	aromatic hydrocarbons (as C ₆ H ₆).....	max. 0,05 %
barium (Ba).....	max. 0,00001 %	cyclohexene (G.C.).....	max. 0,05 %
boron (B).....	max. 0,000002 %	ethanol (G.C.).....	max. 0,01 %
cadmium (Cd).....	max. 0,000005 %	substances darkened by H ₂ SO ₄	passes test
calcium (Ca).....	max. 0,00005 %	residue on evaporation.....	max. 0,0005 %
chromium (Cr).....	max. 0,000002 %	water (K.F.).....	max. 0,01 %

Physical data

- Density: 0,78 g/cm³
- 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 mm²/s
- Dielectric const.: (20 °C) 2,0
- Evap. heat: (81 °C) 389 KJ/kg
- Saturation conc.: (20 °C) 357 g/m³
- 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