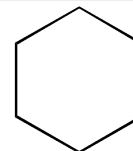


Identification

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. 99,9 %	aromatic hydrocarbons (as C6H6).....	max. 0,001 %
identity (IR-spectrum).....	passes test	cyclohexene (G.C.).....	max. 0,05 %
density (20°/4°).....	0,776 - 0,780	ethanol (G.C.).....	max. 0,01 %
appearance.....	clear	substances darkened by H2SO4.....	passes test
colour (Hazen).....	max. 10	residue on evaporation.....	max. 0,0002 %
acidity.....	max. 0,0003 meq/g	water (K.F.).....	max. 0,01 %
melting point.....	min. 6,0 °C		
aluminium (Al).....	max. 0,00001 %	liquid chromatography suitability	
barium (Ba).....	max. 0,000001 %	absorbance.....	passes test
boron (B).....	max. 0,000002 %		
cadmium (Cd).....	max. 0,000001 %	min. transmission/max. absorbance	
calcium (Ca).....	max. 0,00003 %	in a 1,0 cm cell at	
chromium (Cr).....	max. 0,000002 %	wavelength:	T(%) A (AU)
cobalt (Co).....	max. 0,000002 %	208 nm.....	20 % 0,699 AU
copper (Cu).....	max. 0,000002 %	223 nm.....	50 % 0,301 AU
iron (Fe).....	max. 0,000002 %	232 nm.....	80 % 0,097 AU
lead (Pb).....	max. 0,00001 %	240 nm.....	90 % 0,046 AU
magnesium (Mg).....	max. 0,00001 %	250 nm.....	98 % 0,009 AU
manganese (Mn).....	max. 0,000001 %		
nickel (Ni).....	max. 0,000002 %	Microfiltered through membranes	
tin (Sn).....	max. 0,00001 %	of pore diameter 0,22 µm	
zinc (Zn).....	max. 0,000001 %		

Packaging
Packaging Code

1 l  CI00391000
 2,5 l  CI00392500
 4 l  CI00394000

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.
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/m³, 700 mg/m³
- 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