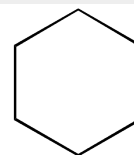


Identification

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 %
identity (IR-spectrum).....passes test
density (20°/4°).....0,776 - 0,780
appearance.....clear
colour (Hazen).....max. 10
acidity.....max. 0,0003 meq/g
melting point.....min. 6,0 °C
aluminium (Al).....max. 0,1 ppm
barium (Ba).....max. 0,01 ppm
boron (B).....max. 0,02 ppm
cadmium (Cd).....max. 0,01 ppm
calcium (Ca).....max. 0,3 ppm
chromium (Cr).....max. 0,02 ppm
cobalt (Co).....max. 0,02 ppm
copper (Cu).....max. 0,02 ppm
iron (Fe).....max. 0,02 ppm
lead (Pb).....max. 0,1 ppm
magnesium (Mg).....max. 0,1 ppm
manganese (Mn).....max. 0,01 ppm
nickel (Ni).....max. 0,02 ppm

tin (Sn).....max. 0,1 ppm
zinc (Zn).....max. 0,01 ppm
aromatic hydrocarbons (as C_6H_6).....max. 0,001 %
cyclohexene (G.C.).....max. 0,05 %
ethanol (G.C.).....max. 0,01 %
substances darkened by H_2SO_4passes test
residue on evaporation.....max. 0,0002 %
water (K.F.).....max. 0,01 %

liquid chromatography suitability absorbance..... passes test

min. transmission/max. absorbance in a 1,0 cm cell at
wavelength:.....T(%) A (AU)
208 nm.....20 % 0,699 AU
223 nm.....50 % 0,301 AU
232 nm.....80 % 0,097 AU
240 nm.....90 % 0,046 AU
250 nm.....98 % 0,009 AU
270 nm.....99 % 0,004 AU

Microfiltered through membranes of pore diameter 0,22 µm

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
- 15°C - 25°C