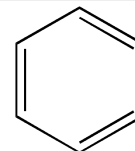


**Identification**

$C_6H_6$   
 M = 78,11 g/mol  
 CAS [71-43-2]  
 EC number: 200-753-7  
 Taric code: 2902 20 00


**Synonyms**

Cyclohexatriene




**Applications**

synthesis of organic products, for pharmaceuticals synthesizing, manufacture of dyes, manufacturing of lacquers, analytical chemistry, solvent for fat and oil extractions.

**Specifications**

assay (G.C.).....	min. 99,8 %	zinc (Zn).....	max. 0,000001 %
identity (IR-spectrum).....	passes test	sulfur compounds (as S).....	max. 0,0005 %
density (20°/4°).....	0,877 - 0,879	tiophene (C4H4S).....	max. 0,0001 %
appearance.....	clear	substances darkened by H2SO4.....	passes test
colour (Hazen).....	max. 10	residue on evaporation.....	max. 0,0002 %
melting point.....	min. 5,2 °C	water (K.F.).....	max. 0,02 %
acidity.....	max. 0,00005 meq/g		
alkalinity.....	max. 0,00005 meq/g	liquid chromatography suitability	
aluminium (Al).....	max. 0,00001 %	absorbance.....	passes test
barium (Ba).....	max. 0,000001 %		
boron (B).....	max. 0,000002 %	min. transmission/max. absorbance	
cadmium (Cd).....	max. 0,000001 %	in a 1,0 cm cell at	
calcium (Ca).....	max. 0,00003 %	wavelength:	T(%) A (AU)
chromium (Cr).....	max. 0,000002 %	280 nm.....	25 % 0,602 AU
cobalt (Co).....	max. 0,000002 %	290 nm.....	80 % 0,097 AU
copper (Cu).....	max. 0,000002 %	300 nm.....	90 % 0,046 AU
iron (Fe).....	max. 0,000002 %	320 nm.....	95 % 0,022 AU
lead (Pb).....	max. 0,00001 %	340 nm.....	98 % 0,009 AU
magnesium (Mg).....	max. 0,00001 %		
manganese (Mn).....	max. 0,000001 %	Microfiltered through membranes	
nickel (Ni).....	max. 0,000002 %	of pore diameter 0,22 µm	
tin (Sn).....	max. 0,00001 %		

**Packaging**
**Packaging Code**

1 l  BE00411000  
 2,5 l  BE00412500  
 4 l  BE00414000

**Physical data**

- Density: 0,88 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 1,77 g/l
- Melting point: 5,5 °C
- Boiling point: 80,1 °C
- Flash point: -11 °C
- Ignition temperature: 555 °C
- Vapour pressure: (20 °C) 101 hPa
- Refraction index: (n 20 °C/D) 1,5011
- Viscosity: (20 °C) 0,66 mPas
- Dielectric const.: (20 °C) 2,3
- Evap. heat: (80 °C) 550 KJ/kg
- Saturation conc.: (20 °C) 319 g/m<sup>3</sup>
- Expl. limit (upper): 8,0 Vol%
- Expl. limit (lower): 1,4 Vol%

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

H225: Highly flammable liquid and vapour.

H340: May cause genetic defects.

H350: May cause cancer.

H372: Causes damage to organs through prolonged or repeated exposure.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

**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.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

• LD 50 (oral, rat): 930 mg/kg

• WGK: 3

• Poison class CH (Swiss): 1\*

**Transport/storage**

• ADR: 3 F1 II • UN 1114 • BENZENE

• IMDG: 3 II • UN 1114 • BENZENE

• IATA/ICAO: 3 II • UN 1114 • BENZENE

• PAX: 305

• CAO: 307

• Store between 15°C and 25°C