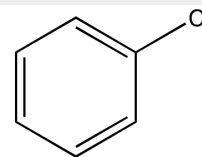


Identification

C_6H_5Cl
 M = 112,56 g/mol
 CAS [108-90-7]
 EC number: 203-628-5
 Taric code: 2903 91 00


Synonyms

Monochlorobenzene, Benzene chloride, Phenyl chloride

Applications

laboratory reagent, synthesis of organic products, solvents (painting).

Specifications

assay (G.C.).....	min. 99,5 %	nickel (Ni).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	zinc (Zn).....	max. 0,1 ppm
density (20°/4°).....	1,105 - 1,107	benzene (G.C.).....	max. 0,01 %
colour (Hazen).....	max. 10	total dichlorobenzenes (G.C.).....	max. 0,01 %
acidity.....	max. 0,004 meq/g	total chlorotoluenes (G.C.).....	max. 0,05 %
cadmium (Cd).....	max. 0,05 ppm	sulphur compounds (as CS ₂).....	max. 0,0003 %
calcium (Ca).....	max. 0,5 ppm	substances darkened by H ₂ SO ₄	passes test
chromium (Cr).....	max. 0,02 ppm	residue on evaporation.....	max. 0,0005 %
copper (Cu).....	max. 0,02 ppm	water (K.F.).....	max. 0,02 %
iron (Fe).....	max. 0,1 ppm		
lead (Pb).....	max. 0,1 ppm		
magnesium (Mg).....	max. 0,02 ppm		

Physical data

- Density: 1,11 g/cm³
- Solub. in water: (20 °C): 0,5 g/l
- Melting point: -45 °C
- Boiling point: 132 °C
- Flash point: 28 °C
- Ignition temperature: 590 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,5248
- Dipolar moment: (20 °C) 1,55 Debye
- Dielectric const.: (25 °C) 5,6
- Saturation conc.: (20 °C) 54 g/m³
- Expl. limit (upper): 11 Vol%
- Expl. limit (lower): 1,3 Vol%
- pH(20 °C) 7

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H226: Flammable liquid and vapour.
 H332: Harmful if inhaled.
 H411: Toxic to aquatic life with long lasting effects.


Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.
 P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 1100 mg/kg
- MAK: 10 ml/m³, 47 mg/m³
- WGK: 2
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 3 F1 III • UN 1134 • CHLOROBENZENE
- IMDG: 3 III • UN 1134 • CHLOROBENZENE
- IATA/ICAO: 3 III • UN 1134 • CHLOROBENZENE
- PAX: 355
- CAO: 366
- Store between 15°C and 25°C