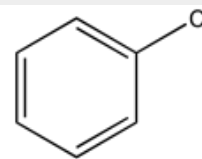


Identification

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

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: 29 °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.
 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.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

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
- 15°C - 25°C