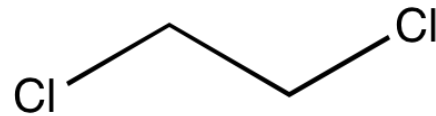


Identification

C₂H₄Cl₂
M = 98,97 g/mol
CAS [107-06-2]
EC number: 203-458-1
Taric code: 2903 15 00


Synonyms

Ethylene chloride, Ethylene dichloride

Applications

solvents, synthesis of organic products, fumigant.

Specifications

| | | | |
|-----------------------------|-------------------|---|---------------|
| assay (G.C.)..... | min. 99,5 % | copper (Cu)..... | max. 0,02 ppm |
| identity (IR-spectrum)..... | passes test | iron (Fe)..... | max. 0,1 ppm |
| density (20°/4°)..... | 1,246 - 1,255 | lead (Pb)..... | max. 0,02 ppm |
| appearance..... | clear | magnesium (Mg)..... | max. 0,05 ppm |
| colour (Hazen)..... | max. 10 | manganese (Mn)..... | max. 0,02 ppm |
| acidity..... | max. 0,0003 meq/g | nickel (Ni)..... | max. 0,02 ppm |
| free chlorine (as Cl)..... | max. 0,00003 % | potassium (K)..... | max. 0,2 ppm |
| aluminium (Al)..... | max. 0,05 ppm | sodium (Na)..... | max. 0,5 ppm |
| barium (Ba)..... | max. 0,05 ppm | strontium (Sr)..... | max. 0,02 ppm |
| cadmium (Cd)..... | max. 0,02 ppm | zinc (Zn)..... | max. 0,1 ppm |
| calcium (Ca)..... | max. 0,2 ppm | substances darkened by H ₂ SO ₄ | passes test |
| chromium (Cr)..... | max. 0,02 ppm | residue on evaporation..... | max. 0,0005 % |
| cobalt (Co)..... | max. 0,02 ppm | water (K.F.)..... | max. 0,005 % |

Physical data

- Density: 1,25 g/cm³
- Solub. in water: (20 °C): 0,80 g/l
- Melting point: -35,5 °C
- Boiling point: 83,5 - 84,1 °C
- Flash point: 13 °C
- Ignition temperature: 412,6 - 440 °C
- Vapour pressure: (20 °C) 87 hPa
- Viscosity: (20 °C) 0,8 mPas
- Saturation conc.: (20°C) 350 g/m³
- Expl. limit (upper): 16,2 Vol%
- Expl. limit (lower): 6 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H225: Highly flammable liquid and vapour.
H350: May cause cancer.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory 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): 670 mg/kg
- WGK: 3
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 3 FT1 II • UN 1184 • ETHYLENE DICHLORIDE
- IMDG: 3 II • UN 1184 • ETHYLENE DICHLORIDE
- IATA/ICAO: 3 II • UN 1184 • ETHYLENE DICHLORIDE
- PAX: 306
- CAO: 308
- Store between 15°C and 25°C