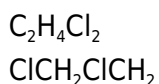


**PRODUCT CODE: 361286****1,2-Dichloroethane for UV, IR, HPLC, GPC**

M.= 98,97

CAS [107-06-2]

EINECS 203-458-1

TARIC 2903 15 00 00

SYNONYMS: EDC, Ethylene Chloride, Ethylene Dichloride

PHYSICAL DATA: liquid, Clear, Colourless, Soluble in water 8,5 g/l at 20 °C D 20/4 1,2569 • M.P.: -35 °C • B.P.: 83 °C • n_{20/D} : 1,444 • Flash P.:13 °C • Ign. T.:440 °C • Vap. press. (20 °C) 87 hPa • Viscosity 20 °C 0,8 mPa.s • D. M. 20 °C 1,75 Debye • Dielec. constant 20 °C 10,6 • Evap. number (DIN 53170) 4,1 • Heat evap. 83 °C 323 KJ/Kg • Satur. conc. 20 °C 350 g/m³ • Expl. limit 6,2 % (V) 16 % (V) •

BIBLIOGRAPHY: Merck Index **12**, 3.843 13, 3.831 Sax **DFF900** • Safety **2**, **1134 A** • Kühn-Birett **D 19** • Ullmann **(5.)6**, 263 • Beilstein **1**, **84 I**, **24 II**, **52 III**, **141 IV**, **131** • BRN 605264 • ACS **XI** • F.C.C **9 10** •

HAZARDOUS: C.E: 602-012-00-7 • RTECS: KI 0525000 • LD L0 oral man 286 mg/kg • LD L0 oral hmn 286 mg/kg • LD50 oral mus 489 mg/kg • LD50 oral rat 670 mg/kg • TC L0 man 4000ppm / 1h • LC50 inh rat 1000 ppm / 7h • LD50 rbt 2800g/Kg • VLA-ED 20 mg/m³



H: H350 • H225 • H302 • H319 • H335 • H315 •

P: P201 • P202 • P210 • P233 • P240 • P241 • P242 • P243 • P261 • P264 • P270 • P271 • P280 • P281 • P301+P312 • P302+P352 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P308+P313 • P312 • P321 • P330 • P332+P313 • P337+P313 • P362 • P370+P378 • P403+P233 • P403+P235 • P405 • P501 •

TRANSPORT REGULATIONS: UN: 1184 • ADR: 3(6.1)/II • IMDG: 3(6.1)/II • IATA: 3(6.1)/II • PAX: 352 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~1,250 kg 1kg~0,8 l

OBSERVATIONS: May be subject to export control •

SPECIFICATIONS:

| | |
|----------------------|----------------|
| Minimum assay (G.C.) | 99,9% |
| Identity : | |
| Identity | IR passes test |
| Density at 20/4 | 1,246-1,255 |

Maximum limit of impurities

| | |
|-------------|--------------|
| APHA colour | 10 |
| Acidity | 0,0002 meq/g |

| | |
|----------------------------------|--------------|
| Alkalinity | 0,0002 meq/g |
| Non-volatile matter | 0,0002 % |
| Water (H ₂ O) | 0,01 % |
| Suitability for IR spectrometry: | passes test |

| | |
|--------------------------------------|-------------------|
| Fluorescence at 254 nm (as quinine) | 1 ppb |
| Fluorescence at 365 nm (as quinine) | 1 ppb |
| UV Spectrum (1cm cell; Ref.: water): | |
| Transmittance at 228 (Cut off) nm | ³ 10 % |
| Transmittance at 240 nm | ³ 85 % |
| Transmittance at 245 nm | ³ 90 % |
| Transmittance at 250 nm | ³ 95 % |
| Transmittance at 260-400 nm | ³ 98 % |

| | |
|--|------|
| Data of interest in HPLC: | |
| P' + 0.25 E | 6,3 |
| Rohrschneider Polarity | 3,5 |
| Elutropic value e° (Al ₂ O ₃) | 0,44 |
| Sol. H ₂ O in solv. at 20°C | 0,16 |

For critical jobs, purge with nitrogen.

Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.