

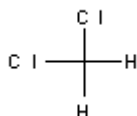


PRODUCT CODE: 141254

Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade

CH₂Cl₂

CH₂Cl₂



M.= 84,93

CAS [75-09-2]

EINECS 200-838-9

TARIC 2903 12 00 00

SYNONYMS: Methylene Chloride, Methylene Dichloride

PHYSICAL DATA: liquid, Clear, Colourless, Soluble in water 20 g/l at 20 °C D 20/4 1,3258 • M.P.: -95 °C • B.P.: 39,75 °C • n_{20/D} : 1,4244 • Flash P.:NO • Ign. T.:605 °C • Vap. press. (20 °C) 453 hPa • Viscosity 20 °C 0,43 mPa.s • D. M. 20 °C 1,6 Debye • Dielec. constant 20 °C 9,1 • Evap. number (DIN 53170) 1,9 • Heat evap. 40 °C 329 KJ/Kg • Satur. conc. 20 °C 1549 g/m³ • Expl. limit 14 % (V) 25 % (V) •

BIBLIOGRAPHY: Merck Index **12**, 6.140 13, 6.088 Sax **MDR000** • Safety **2**, **1140 D** • Kühn-Birett **M 25** • Ullmann **(5).**6, 235 • Beilstein **1**, **60 I**, **8 II**, **13 III**, **43 IV**, **35** • BRN 1730800 • Fieser **1676 2273 4337 7239** • ACS **XI** • ISO 6353/3-1987 R - 57, 22 • BP.**2018** • USP -**NF 36** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • Directive 88/344/E.C.E.92/115/E.C.E.94/52/EC97/60/EC (27/10/1997) 2009/32/CE • Royal Decree 472/1990 (6/4/1990), 2667/1998 (11 /12/1998), 1101/2011 (22/7/2011) •

HAZARDOUS: C.E: 602-004-00-3 • RTECS: PA 8050000 • LD50 oral rat 2.000 mg/kg • LC50 rat 49000mg/m³ / 7h • LD50 skn rat 2.000 mg/kg • VLA-ED 50 ppm 177 mg/m³

Derived No Effect Level (DNEL)

Workers Inhalation, long term (systemic) 706 mg/m³ Workers Dermal, long exposure (systemic) 4750mg/kg
Workers Inhalation, long term (systemic) 353 mg/m³ Population Inhalation, acute (systemic) 353 mg/m³
Population, Dermal, long exposure (systemic) 2395mg/kg Population Inhalation, long term (systemic) 88,3 mg/m³
Population, oral, long term (systemic) 0.06mg/kg

Predicted No Effect Concentration (PNEC)

Freshwater 0.54mg/l Marine water 0.194mg/l Freshwater Sediment 4.47mg/kg Marine water Sediment 1.61mg/kg Soil 0.583mg/kg Sewage treatment plant 26mg/l



H: H351 •
P: P201 • P202 • P281 • P308+P313 • P405 • P501 •

TRANSPORT REGULATIONS: UN: 1593 • ADR: 6.1/III • IMDG: 6.1/III • IATA: 6.1/III • PAX: 655 • CAO: 663 • (E) •

WEIGHT/VOLUME INFORMATION: 1l~1,324 kg 1kg~0,755 l

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Minimum assay (G.C.)	99,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
Density at 25/25	1,318-1,322
Density at 20/20	1,320-1,332
Refractive Index n ₂₀ /D	1,423-1,425

Maximum limit of impurities

Appearance	passes test
Acidity(as HCl)	0,001%

Non-volatile matter	0,002 %
Chlorine Free (Cl)	passes test
Chloride (Cl)	0,0003%
Residual solvents (Ph.Eur/USP)	passes test
Ethanol, 2-Methyl-2-Butene and volatile impurities (v/v) :	
Ethanol	0,5%
2-Methyl-2-Butene	0,03%
Carbon Tetrachloride	0,001%
Trichloromethane	0,005%
Total of impurities other than ethanol and 2-Methyl-2-Butene	0,1%
Water (H ₂ O)	0,02 %
Heavy metals (as Pb)	0,0001%

Elemental impurities (ICH Q3D):

Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3

Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm