



>>Entry Name: Dichloromethane, 9Cl

ENTRY UNDER REVIEW

Synonym(s): Methylene chloride. Methane dichloride. R 30

CAS Registry Number: 75-09-2

Related CAS Registry Numbers(s): 1665-00-5

CH₂Cl₂

Molecular Formula: CH₂Cl₂

Molecular Weight: 84.932

Accurate Mass: 83.953354

Percentage Composition: C 14.14%; H 2.37%; Cl 83.48%

Source/Synthesis: Manuf. by chlorination of Chloromethane [DCL77-X](#)

Biological Source: Found in various plants and algae and in volcanic gases

Use/Importance: Widely used solv. used in coffee decaffeination. Component of paint removers. Blowing agent in foams. Can replace formaldehyde as reagent for Mannich reagents

Physical Description: Volatile liq.

Melting Point: Fp -96.8°

Boiling Point: Bp 40.1°

Density: d₄¹⁵ 1.335

Refractive Index: n_D²⁰ 1.4246

Other Data: Much more reactive than commonly supposed. Use as solvent in basic conds. should be avoided (see Souquet, *et al*)

Hazard & Toxicity: Autoignition temp. 605°. Gives explosive mixts. with various materials and reacts exothermically with amines in conc. soln. Vapour can ignite or explode if heated. Possible human carcinogen. Eye, skin and respiratory tract irritant. De-fats the skin. High vapour conc. depress CNS and cause headache, dizziness and coma.

Prolonged or repeated exposure can cause carboxyhaemoglobinaemia, gastrointestinal disturbances plus the symptoms of acute exposure. Exp. carcinogen. Exp. reprod. and teratogenic effects. MEL: long-term 100 ppm; short-term 300 ppm (proposed)

Aldrich: 46615-8

Fluka: 66742

Sigma: M5292

Supelco: 4-7300

References:

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