



>>Entry Name: Dimethoxymethane, 9CI, 8CI

Synonym(s): Formaldehyde dimethyl acetal. Methylal. Formal

CAS Registry Number: 109-87-5

MeOCH₂OMe

Molecular Formula: C₃H₈O₂

Molecular Weight: 76.095

Accurate Mass: 76.05243

Percentage Composition: C 47.35%; H 10.60%; O 42.05%

Use/Importance: Used in perfumery and in the manuf. of artificial resins. Reagent for alcohol protection, solv. for Grignard reactions

Physical Description: Volatile liq.

Melting Point: Mp -105°

Boiling Point: Bp 41-42° (44°)

Density: d₄²⁰ 0.86

Refractive Index: n_D¹⁸ 1.3589

Hazard & Toxicity: Extremely flammable, fl. p. -18°(oc)/-32°(oc), autoignition temp. 237°, may form explosive peroxides. High vapour conc. narcotic and anaesthetic. Eye and skin irritant. OES: long-term 1000 ppm; short-term 1250 ppm

Aldrich: D13465-1

Fluka: 47676

Sigma: D8154

References:

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