



>>Entry Name: Dichloromethoxymethane, 9Cl

Synonym(s): Dichloromethyl methyl ether, 8Cl. *unsym*-Dichlorodimethyl ether

CAS Registry Number: 4885-02-3

Cl₂CHOMe

Molecular Formula: C₂H₄Cl₂O

Molecular Weight: 114.958

Accurate Mass: 113.963919

Percentage Composition: C 20.90%; H 3.51%; Cl 61.68%; O 13.92%

Use/Importance: Reagent for conversion of carboxylic acids to acid chlorides and carbonyl compds. to *gem*-dichlorides. Formylates aromatic hydrocarbons under Friedel-Crafts conditions

Physical Description: Liq.

Boiling Point: Bp 82-84°

Refractive Index: n_D^{20} 1.4303

Aldrich: D6565-8

Fluka: 35942

Sigma: D0395

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **1**, 326C, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 273B, (*ir*)

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 126G, (*ir*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 220; **6**, 171; **7**, 98

Org. Synth., 1967, **47**, 47, (*synth*)

Gross, H. *et al.*, *Z. Chem.*, 1978, **18**, 201, (*rev*)

von der Brüggen, U. *et al.*, *Chem. Ber.*, 1988, **121**, 191, (*use*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DFQ000