



>>Entry Name: 2-(2-Methoxyethoxy)ethanol

Synonym(s): Diethylene glycol monomethyl ether. Hicotol CAR

CAS Registry Number: 111-77-3

MeOCH₂CH₂OCH₂CH₂OH

Molecular Formula: C₅H₁₂O₃

Molecular Weight: 120.148

Accurate Mass: 120.078645

Percentage Composition: C 49.98%; H 10.07%; O 39.95%

Use/Importance: Solvent

Melting Point: Mp -70°

Boiling Point: Bp 194°

Refractive Index: n_D²⁰ 1.4233

Hazard & Toxicity: Fl. p. 96° (oc), autoignition temp. 240°. Reacts violently with Ca(OC₂H₅)₂. Eye irritant. Low acute toxicity. Exp. reprod. and teratogenic effects

Aldrich: 10990-8

Fluka: 32280

>>Derivative: Me ether

Synonym(s): 1,1'-Oxybis[2-methoxyethane]. Bis(2-methoxyethyl) ether. 2,5,8-Trioxanonane. 2,2'-Dimethoxydiethyl ether. Diglyme

CAS Registry Number: 111-96-6

Molecular Formula: C₆H₁₄O₃

Molecular Weight: 134.175

Accurate Mass: 134.094295

Percentage Composition: C 53.71%; H 10.52%; O 35.77%

Use/Importance: Solv., reaction medium

Melting Point: Mp -68°

Boiling Point: Bp 160.5-161°

Solubility: Misc. H₂O

Density: d₂₀²⁰ 0.945

Refractive Index: n_D²⁰ 1.4097

Hazard & Toxicity: Fl. p. 67°. Forms peroxides on exp. to air and light, which react explosively with AlH₃ and LiAlH₄. Eye and skin irritant. Exp. reprod. and teratogenic effects

Aldrich: M1410-2

Fluka: 32220

Sigma: M8132

References:

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