



>>Entry Name: 1,2-Bis(2-methoxyethoxy)ethane

Synonym(s): 2,5,8,11-Tetraoxadodecane, 9Cl, 8Cl. Triethylene glycol dimethyl ether. Triglyme. Glyme 4

CAS Registry Number: 112-49-2

MeOCH₂CH₂OCH₂CH₂OCH₂CH₂OMe

Molecular Formula: C₈H₁₈O₄

Molecular Weight: 178.228

Accurate Mass: 178.12051

Percentage Composition: C 53.91%; H 10.18%; O 35.91%

Biological Source: Prod. by *Myxococcus fulvus*

Use/Importance: Solvent

Physical Description: Liq.

Melting Point: Mp -45°

Boiling Point: Bp 216°. Bp₁₀ 103.5°

Solubility: Sol. H₂O

Hazard & Toxicity: Exp. reprod. and teratogenic effects

Aldrich: T5980-3

Fluka: 90422

Sigma: T3518

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 325B, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 207B, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 272A, (ir)

U.S. Pat., 1947, 2 425 042; *CA*, **42**, 206, (synth)

Marsden, C. *et al.*, *Solvents Guide*, Cleaver-Hume, London, 2nd Ed., 1962, 220, (use, haz, props)

Daoud, N.N. *et al.*, *Biomed. Lett.*, 1992, **47**, 325, (isol)

Schwetz, B.A. *et al.*, *Fundam. Appl. Toxicol.*, 1992, **19**, 238, (reprod, tox)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, TKL875