



>>Entry Name: Tetraethylene glycol, 8Cl

Synonym(s): 2,2'-[Oxybis(2,1-ethanediyl oxy)]bisethanol, 9Cl. 3,6,9-Trioxaundecane-1,11-diol. Glyme 5

CAS Registry Number: 112-60-7

Related CAS Registry Numbers(s): 15826-19-4 20297-05-6 20297-06-7 40777-24-0 45300-87-6

HOCH₂CH₂OCH₂CH₂OCH₂CH₂OCH₂CH₂OH

Molecular Formula: C₈H₁₈O₅

Molecular Weight: 194.227

Accurate Mass: 194.115425

Percentage Composition: C 49.47%; H 9.34%; O 41.19%

Use/Importance: Used in extraction of aromatics from petroleum and in resin manuf. Solv. for nitrocellulose. Plasticiser

Physical Description: Hygroscopic liq.

Melting Point: Mp -3°

Boiling Point: Bp 328°. Bp₂ 157°

Solubility: Misc. H₂O, MeOH; insol. C₆H₆, toluene

Density: d₂₀²⁰ 1.125

Refractive Index: n_D²⁰ 1.4590

Hazard & Toxicity: Skin and eye irritant. LD₅₀ 29000 mg/kg. Fl. p. 174° (oc)/182° (oc)

Aldrich: 11017-5

Fluka: 86660

Sigma: T3521

>>Derivative: Di(2-propenoyl)

CAS Registry Number: 17831-71-9

Molecular Formula: C₁₄H₂₂O₇

Molecular Weight: 302.324

Accurate Mass: 302.136555

Percentage Composition: C 55.62%; H 7.33%; O 37.05%

Use/Importance: Used in photopolym. compds.

Refractive Index: n_D²⁰ 1.4658

Aldrich: 39880-2

>>Derivative: Bis(2-methyl-2-propenoyl)

CAS Registry Number: 109-17-1

Molecular Formula: C₁₆H₂₆O₇

Molecular Weight: 330.377

Accurate Mass: 330.167855

Percentage Composition: C 58.17%; H 7.93%; O 33.90%

Use/Importance: Used in photopolym. compds.

Density: d₂₀²⁰ 1.087

Refractive Index: n_D²⁰ 1.4631

Aldrich: T1105-3

Fluka: 86680

Rare Chemicals Library: S35573-9

>>Derivative: Bis(4-methylbenzenesulfonyl)

CAS Registry Number: 37860-51-8

Molecular Formula: C₂₂H₃₀O₉S₂

Molecular Weight: 502.606

Accurate Mass: 502.133125

Percentage Composition: C 52.57%; H 6.02%; O 28.65%; S 12.76%

Use/Importance: Building block for crown ethers and cryptands

Physical Description: Yellow oil

Density: d 1.24

Aldrich: 34170-3