



>>Entry Name: 3,6,9,12,15,18-Hexaoxaicosane-1,20-diol, 9CI

Synonym(s): Heptaethylene glycol, 8CI

CAS Registry Number: 5617-32-3

HO(CH₂CH₂O)₆CH₂CH₂OH

Molecular Formula: C₁₄H₃₀O₈

Molecular Weight: 326.386

Accurate Mass: 326.19407

Percentage Composition: C 51.52%; H 9.26%; O 39.22%

Physical Description: Oil

Boiling Point: Bp_{0.5} 224-234°

>>Derivative: Bis(4-methylbenzenesulfonyl)

CAS Registry Number: 69502-27-8

Molecular Formula: C₂₈H₄₂O₁₂S₂

Molecular Weight: 634.765

Accurate Mass: 634.21177

Percentage Composition: C 52.98%; H 6.67%; O 30.25%; S 10.10%

Physical Description: Viscous oil

>>Derivative: Monododecyl ether

Synonym(s): 3,6,9,12,15,18,21-Heptaoxatritriacontan-1-ol, 9CI

CAS Registry Number: 3055-97-8

Molecular Formula: C₂₆H₅₄O₈

Molecular Weight: 494.708

Accurate Mass: 494.38187

Percentage Composition: C 63.13%; H 11.00%; O 25.87%

Use/Importance: Nonionic surfactant

Physical Description: Cryst.

Melting Point: Mp 28°

References:

Abe, Y. *et al.*, *Fette, Seifen, Anstrichm.*, 1972, **74**, 534-537, (*dodecyl ether, synth*)

Bradshaw, J.S. *et al.*, *J.O.C.*, 1976, **41**, 134-136, (*synth, pmr*)

Coudert, G. *et al.*, *Synth. Commun.*, 1986, **16**, 19-26, (*synth, ir, pmr*)

Corno, C. *et al.*, *Colloid Polym. Sci.*, 1991, **269**, 1133-1139, (*dodecyl ether, cryst struct*)

Keegstra, E.M.D. *et al.*, *J.O.C.*, 1992, **57**, 6678-6680, (*synth*)