



Refractive Index: n_D^{20} 1.4080
Experimental Log P Data: Log P 2.27 (25°) (exp)
Other Data: Enantiomers apparently known but not well documented

>>Derivative: Isopropyl ether

Synonym(s): [(1-Methylethoxy)methyl]oxirane, 9CI. (Isopropoxymethyl)oxirane. 2,3-Epoxypropyl isopropyl ether. Glycidyl isopropyl ether

CAS Registry Number: 4016-14-2
Molecular Formula: $C_6H_{12}O_2$
Molecular Weight: 116.16
Accurate Mass: 116.08373
Percentage Composition: C 62.04%; H 10.41%; O 27.55%
Boiling Point: Bp 137°

Aldrich: 29146-3
Fluka: 50039

>>Derivative: Butyl ether

Synonym(s): (Butoxymethyl)oxirane, 9CI. Butyl 2,3-epoxypropyl ether. Butyl glycidyl ether

CAS Registry Number: 85858-60-2
Extra CAS Registry Numbers(s): 2426-08-6 121906-41-0 130232-96-1
Molecular Formula: $C_7H_{14}O_2$
Molecular Weight: 130.186
Accurate Mass: 130.09938
Percentage Composition: C 64.58%; H 10.84%; O 24.58%
Use/Importance: Monomer for epoxy resins
Physical Description: Liq.
Melting Point: Fp 55°
Boiling Point: Bp 164-166°. Bp₂₆ 74-76°
Density: d_4^{20} 0.92
Refractive Index: n_D^{20} 1.4202 n_D^{25} 1.4171

>>Derivative: 2-Ethylhexyl ether

Synonym(s): [[(2-Ethylhexyl)oxy]methyl]oxirane, 9CI. 2,3-Epoxypropyl 2-ethylhexyl ether. 2-Ethylhexyl glycidyl ether

CAS Registry Number: 2461-15-6
Molecular Formula: $C_{11}H_{22}O_2$
Molecular Weight: 186.294
Accurate Mass: 186.16198
Percentage Composition: C 70.92%; H 11.90%; O 17.18%
Use/Importance: Has industrial applications in coatings and polymers
Physical Description: Liq.
Boiling Point: Bp 126.5-127.5°
Density: d_{30} 0.93
Refractive Index: n_D^{30} 1.4035

>>Derivative: Dodecyl ether

Synonym(s): [(Dodecyloxy)methyl]oxirane, 9CI. Dodecyl 2,3-epoxypropyl ether. Dodecyl glycidyl ether

CAS Registry Number: 2461-18-9
Molecular Formula: $C_{15}H_{30}O_2$
Molecular Weight: 242.401
Accurate Mass: 242.22458
Percentage Composition: C 74.33%; H 12.47%; O 13.20%
Boiling Point: Bp₂ 132-135°
Refractive Index: n_D^{25} 1.4434
Other: PB: L01480

>>Derivative: Octadecyl ether

CAS Registry Number: 16245-97-9
Extra CAS Registry Numbers(s): 111955-43-2
Molecular Formula: $C_{21}H_{42}O_2$
Molecular Weight: 326.562
Accurate Mass: 326.31848
Percentage Composition: C 77.24%; H 12.96%; O 9.80%
Melting Point: Mp 38-39°
Boiling Point: Bp₂ 202-207°. Bp_{0.1} 150-153°
Refractive Index: n