



>>Derivative: 3-Nitrobenzenesulfonyl

CAS Registry Number: 115314-17-5
Molecular Formula: C₉H₉NO₆S
Molecular Weight: 259.239
Accurate Mass: 259.015059
Percentage Composition: C 41.70%; H 3.50%; N 5.40%; O 37.03%; S 12.37%
Use/Importance: Chiral synthon, comly. available
Melting Point: Mp 64-65°
Optical Rotation: $[\alpha]_D^{21} -22$ (c, 2 in CHCl₃)
Aldrich: 32798-0
Fluka: 50047
Sigma: G8517
Other: Daiso

>>Derivative: Octadecyl ether

Synonym(s): (Octyloxymethyl)oxirane, 9CI. 2,3-Epoxypropyl octadecyl ether. Glycidyl octadecyl ether

CAS Registry Number: 83526-53-8
Molecular Formula: C₂₁H₄₂O₂
Molecular Weight: 326.562
Accurate Mass: 326.31848
Percentage Composition: C 77.24%; H 12.96%; O 9.80%
Physical Description: Cryst. (petrol)
Melting Point: Mp 42-43°
Optical Rotation: $[\alpha]_D -8.7$ (c, 5 in C₆H₆)

>>Derivative: Benzyl ether

>>Derivative: 4-Methoxyphenyl ether

Synonym(s): [(4-Methoxyphenoxy)methyl]oxirane, 9CI. 1-(2,3-Epoxypropoxy)-4-methoxybenzene, 8CI

CAS Registry Number: 71031-04-4
Molecular Formula: C₁₀H₁₂O₃
Molecular Weight: 180.203
Accurate Mass: 180.078645
Percentage Composition: C 66.65%; H 6.71%; O 26.64%
Physical Description: Cryst. (Et₂O/petrol or EtOH/hexane)
Melting Point: Mp 49-50° (44°)
Boiling Point: Bp_{0.05} 92°
Optical Rotation: $[\alpha]_D^{30} -11.4$ (c, 1.06 in MeOH)

>>Derivative: 1-Naphthyl ether

Synonym(s): (Naphthyloxymethyl)oxirane. (Oxiranylmethyl)naphthalene

CAS Registry Number: 56715-28-7
Molecular Formula: C₁₃H₁₂O₂
Molecular Weight: 200.237
Accurate Mass: 200.08373
Percentage Composition: C 77.98%; H 6.04%; O 15.98%
Physical Description: Liq.
Optical Rotation: $[\alpha]_D^{25} -33.9$ (c, 1.55 in MeOH)

>>Variant: (S)-form

CAS Registry Number: 60456-23-7
Molecular Formula: C₃H₆O₂
Molecular Weight: 74.079
Accurate Mass: 74.03678
Percentage Composition: C 48.64%; H 8.16%; O 43.20%
Physical Description: Liq.
Boiling Point: Bp_{7.7} 49-50°
Optical Rotation: $[\alpha]_D -13.02$ (neat) (86% ee)
Density: d 1.12