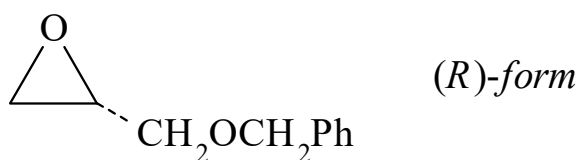




>>Entry Name: (Benzyloxymethyl)oxirane

Synonym(s): [(Phenylmethoxy)methyl]oxirane, 9CI. 1-Benzyloxy-2,3-epoxypropane, 8CI. Benzyl 2,3-epoxypropyl ether. Benzyl glycidyl ether



CAS Registry Number: 2930-05-4

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Hazard & Toxicity: Mutagenic activity

>>Variant: (R)-form

CAS Registry Number: 14618-80-5

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Use/Importance: Chiral synthon for nat. prods.

Physical Description: Oil

Boiling Point: Bp_{0.1} 63°

Optical Rotation: [α]_D²¹+15

Aldrich: 36352-9

Fluka: 13423

>>Variant: (S)-form

CAS Registry Number: 16495-13-9

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Use/Importance: Chiral synthon for nat. prods.

Boiling Point: Bp_{0.1} 68°

Optical Rotation: [α]_D²⁰−15.3 (neat)

Aldrich: 36353-7

Fluka: 13425

>>Variant: (±)-form

CAS Registry Number: 89616-40-0

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Boiling Point: Bp_{0.8} 80°

Aldrich: 46978-5

References:

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Baig, M.H.A. *et al.*, *Tetrahedron*, 1995, **51**, 4723, (synth, pmr, S-form)