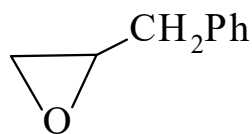




>>Entry Name: Benzyloxirane

Synonym(s): (Phenylmethyl)oxirane, 9CI. 2,3-Epoxypropylbenzene, 8CI. 1-Phenyl-2,3-epoxypropane. 1,2-Epoxy-3-phenylpropane



CAS Registry Number: 4436-24-2

Related CAS Registry Numbers(s): 61393-94-0 91420-74-5

Molecular Formula: C₉H₁₀O

Molecular Weight: 134.177

Accurate Mass: 134.073165

Percentage Composition: C 80.56%; H 7.51%; O 11.92%

Hazard & Toxicity: Mutagen

Aldrich: 33207-0

>>Variant: (±)-form

CAS Registry Number: 96553-68-3

Molecular Formula: C₉H₁₀O

Molecular Weight: 134.177

Accurate Mass: 134.073165

Percentage Composition: C 80.56%; H 7.51%; O 11.92%

Physical Description: Liq.

Boiling Point: Bp 245°. Bp_{9.5} 86-88° (lit. gives a pressure range)

Density: d₄²⁰ 1.109

Other Data: Undergoes radical polym.

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 220C, (nmr)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 988D, (ir)

Noller, C.R. *et al.*, *J.A.C.S.*, 1946, **68**, 201, (synth)

Haubenstock, H. *et al.*, *Makromol. Chem.*, 1966, **97**, 248, (polym)

Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th edn., Van Nostrand Reinhold, 1979, 707