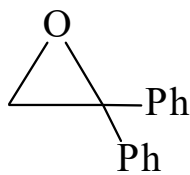




>>Entry Name: **2,2-Diphenyloxirane**, 9CI

Synonym(s): 1,2-Epoxy-1,1-diphenylethane, 8CI. 1,1-Diphenylethylene oxide



CAS Registry Number: 882-59-7

Molecular Formula: C₁₄H₁₂O

Molecular Weight: 196.248

Accurate Mass: 196.088815

Percentage Composition: C 85.68%; H 6.16%; O 8.15%

Physical Description: Yellow or white cryst. (EtOH)

Melting Point: Mp 56°

Boiling Point: Bp₅ 140-142°

Other Data: Slowly resinifies in air. Steam-volatile

References:

Cristol, S.J. *et al.*, *J.A.C.S.*, 1951, **73**, 816, (*synth*)

Corey, E.J. *et al.*, *J.A.C.S.*, 1965, **87**, 1353, (*synth, pmr*)

Hanack, M., *Annalen*, 1968, **713**, 49, (*synth*)

Bloodworth, A.J. *et al.*, *J.C.S. Perkin 1*, 1972, 2433, (*nmr*)

Davies, S.G., *J.C.S. Perkin 2*, 1975, 861, (*cmr*)

Ryoke, K., *Bull. Chem. Soc. Jpn.*, 1976, **49**, 1455, (*synth*)