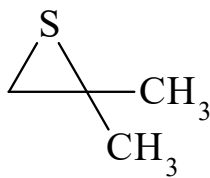




>>Entry Name: **2,2-Dimethylthiirane**, 9CI

Synonym(s): 1,2-Epithio-2-methylpropane, 8CI. Isobutylene sulfide



CAS Registry Number: 3772-13-2

Molecular Formula: C₄H₈S

Molecular Weight: 88.173

Accurate Mass: 88.03467

Percentage Composition: C 54.49%; H 9.14%; S 36.37%

Physical Description: Clear liq.

Boiling Point: Bp 84-86°

Refractive Index: n_D²⁰ 1.4660

>>Derivative: S-Oxide

CAS Registry Number: 25118-02-9

Molecular Formula: C₄H₈OS

Molecular Weight: 104.173

Accurate Mass: 104.029585

Percentage Composition: C 46.12%; H 7.74%; O 15.36%; S 30.78%

Physical Description: Oil

References:

Snyder, H.R. *et al.*, *J.A.C.S.*, 1947, **69**, 2672-2674, (*synth*)

Adv. Chem. Ser., 1955, **15**, 440, (*props*)

Sidhu, K.S. *et al.*, *J.A.C.S.*, 1966, **88**, 254-263, (*ms*)

Lautenschlaeger, F. *et al.*, *J.O.C.*, 1969, **34**, 3991-3998, (*synth*)

Kondo, K. *et al.*, *Tetrahedron*, 1971, **27**, 4821-4830, (*oxide, synth, ir, pmr*)

Hartwig, H. *et al.*, *J. Mass Spectrom.*, 1997, **406**, 1-8, (*mol struct*)

Inorg. Synth., 1998, **32**, 89-95, (*synth, pmr*)