



>>Entry Name: Bis(2-methylpropyl) sulfide

Synonym(s): 1,1'-Thiobis(2-methylpropane), 9CI. Diisobutyl sulfide

CAS Registry Number: 592-65-4

$(\text{H}_3\text{C})_2\text{CHCH}_2\text{SCH}_2\text{CH}(\text{CH}_3)_2$

Molecular Formula: $\text{C}_8\text{H}_{18}\text{S}$

Molecular Weight: 146.296

Accurate Mass: 146.11292

Percentage Composition: C 65.68%; H 12.40%; S 21.92%

Boiling Point: Bp 172-173°

Hazard & Toxicity: Flammable, fl. p. 52°

>>Derivative: S-Oxide

Synonym(s): 1,1'-Sulfinylbis(2-methylpropane), 9CI. Diisobutyl sulfoxide

CAS Registry Number: 3085-40-3

Molecular Formula: $\text{C}_8\text{H}_{18}\text{OS}$

Molecular Weight: 162.296

Accurate Mass: 162.107835

Percentage Composition: C 59.21%; H 11.18%; O 9.86%; S 19.76%

Physical Description: Cryst.

Melting Point: Mp 68.5°

Rare Chemicals Library: S76790-5

>>Derivative: S-Dioxide

Synonym(s): 1,1'-Sulfonylbis(2-methylpropane), 9CI. Diisobutyl sulfone

CAS Registry Number: 10495-45-1

Molecular Formula: $\text{C}_8\text{H}_{18}\text{O}_2\text{S}$

Molecular Weight: 178.295

Accurate Mass: 178.10275

Percentage Composition: C 53.89%; H 10.18%; O 17.95%; S 17.98%

Use/Importance: Insect repellent

Melting Point: Mp 17°

Boiling Point: Bp 265°

References:

Beckmann, E.O., *J. Prakt. Chem.*, 1878, **17**, 448

Ayers, G.W. *et al.*, *J.A.C.S.*, 1939, **61**, 84, (*synth*)

Leonard, N.J. *et al.*, *J.O.C.*, 1962, **27**, 282, (*synth*)

Bovio, A. *et al.*, *J.C.S. Perkin 2*, 1978, 172, (*synth*)

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