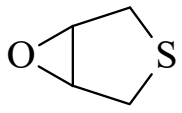
>>**Entry Name: 6-Oxa-3-thiabicyclo[3.1.0]hexane**
Synonym(s): 3,4-Epoxytetrahydrothiophene



CAS Registry Number: 285-70-1

Molecular Formula: C_4H_6OS
Molecular Weight: 102.157
Accurate Mass: 102.013935
Percentage Composition: C 47.03%; H 5.92%; O 15.66%; S 31.39%

>>**Derivative:** *S*,*S*-Dioxide
Synonym(s): 3,4-Epoxysulfolane

CAS Registry Number: 4509-11-9
Molecular Formula: $C_4H_6O_3S$
Molecular Weight: 134.156
Accurate Mass: 134.003765
Percentage Composition: C 35.81%; H 4.51%; O 35.78%; S 23.90%
Physical Description: Cryst. (petrol)
Melting Point: Mp 159-160°

Aldrich: 41499-9
Rare Chemicals Library: S16653-7

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1423B, *(nmr)*
Aldrich Library of Infrared Spectra, 3rd edn., 1981, 531E, *(ir)*
Van Lohuizen, O.E. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1949, **68**, 1137, *(synth)*
Sorenson, W.R.*, J.O.C.*, 1959, **24**, 1796, *(synth)*
Dittmann, W. *et al.*, *Annalen*, 1966, **699**, 177, *(synth)*
Nechaeva, M.A. *et al.*, *Khim. Geterotsikl. Soedin.*, 1967, 1029; *CA*, **69**, 19092c, *(synth)*
Hunger, K.*, Chem. Ber.*, 1968, **101**, 3530, *(synth)*
Weinber, D.S. *et al.*, *Tetrahedron*, 1968, **24**, 5409, *(ms)*
Meyers, A.I. *et al.*, *Tet. Lett.*, 1971, 2609, *(synth)*
Sands, D.E.*, Acta Cryst. B*, 1972, **28**, 2463, *(cryst struct)*
Sammakia, T.H. *et al.*, *Org. Magn. Reson.*, 1984, **22**, 747, *(O-17 nmr)*
Cadogen, J.I.G.*, Chem. Comm.*, 1991, 114, *(synth)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, ECP000