



>>Entry Name: [(Methoxymethyl)thio]benzene, 9CI

Synonym(s): Methoxy(phenylthio)methane. Phenylthiomethyl methyl ether. Methoxymethyl phenylthio ether

CAS Registry Number: 13865-50-4

MeOCH₂SPh

Molecular Formula: C₈H₁₀OS

Molecular Weight: 154.232

Accurate Mass: 154.045235

Percentage Composition: C 62.30%; H 6.53%; O 10.37%; S 20.79%

Use/Importance: Used in synth. of 1,4-dicarbonyl compds.

Physical Description: Liq.

Boiling Point: Bp₁₂ 108°

Aldrich: 29407-1

>>Derivative: S-Oxide

Synonym(s): [(Methoxymethyl)sulfinyl]benzene

CAS Registry Number: 37559-63-0

Molecular Formula: C₈H₁₀O₂S

Molecular Weight: 170.232

Accurate Mass: 170.04015

Percentage Composition: C 56.45%; H 5.92%; O 18.80%; S 18.84%

Other Data: No phys. props. reported

>>Derivative: S,S-Dioxide

Synonym(s): [(Methoxymethyl)sulfonyl]benzene, 9CI

CAS Registry Number: 15251-78-2

Molecular Formula: C₈H₁₀O₃S

Molecular Weight: 186.231

Accurate Mass: 186.035065

Percentage Composition: C 51.60%; H 5.41%; O 25.77%; S 17.22%

Other Data: No phys. props. reported

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **2**, 434A, (*nmr*)

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de Lattre, J., *Bull. Soc. Chim. Belg.*, 1912, **26**, 323, (*synth*)

Trost, B.M. *et al.*, *J.A.C.S.*, 1975, **97**, 7182, (*synth, use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1977, **6**, 369; **10**, 260; **12**, 316; **13**, 181; **15**, 202, (*use*)

de Groot, A. *et al.*, *Tet. Lett.*, 1981, **22**, 887, (*use*)

Mandai, T. *et al.*, *Tet. Lett.*, 1983, **24**, 4993, (*use*)

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