



>>Entry Name: Azidomethyl phenyl sulfide

Synonym(s): [(Azidomethyl)thio]benzene, 9Cl

CAS Registry Number: 77422-70-9

PhSCH₂N₃

Molecular Formula: C₇H₇N₃S

Molecular Weight: 165.218

Accurate Mass: 165.036067

Percentage Composition: C 50.89%; H 4.27%; N 25.43%; S 19.41%

Use/Importance: Reagent for the conversion of organometallics into amines

Physical Description: Liq.

Boiling Point: Bp_{0.23} 55-58°

Aldrich: 24454-6

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 480B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1436B, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 447A, (*nmr*)

Trost, B.M. *et al.*, *J.A.C.S.*, 1981, **103**, 2483, (*synth, ir, pmr, cmr, use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1982, **10**, 14; 1986, **12**, 37, (*use*)

Whitaker, C.M. *et al.*, *J.O.C.*, 1995, **60**, 3499, (*synth, ir, pmr, ms*)