



>>Entry Name: 1-Chloro-2-(phenylthio)ethane

ENTRY UNDER REVIEW

Synonym(s): [(2-Chloroethyl)thio]benzene, 9Cl. 2-Chloroethyl phenyl sulfide

CAS Registry Number: 5535-49-9

PhSCH₂CH₂Cl

Molecular Formula: C₈H₉ClS

Molecular Weight: 172.678

Accurate Mass: 172.011347

Percentage Composition: C 55.65%; H 5.25%; Cl 20.53%; S 18.57%

Physical Description: Liq.

Boiling Point: Bp₁₅ 122-124°. Bp₇ 107°

Density: d₄²³ 1.18

Refractive Index: n_D²⁰ 1.5830

Hazard & Toxicity: Strong vesicant

Aldrich: 41760-2

Fluka: 23055

Rare Chemicals Library: S57725-1

Other: Oakwood 3536

>>Derivative: S,S-Dioxide

Synonym(s): 1-Chloro-2-(phenylsulfonyl)ethane. [(2-Chloroethyl)sulfonyl]benzene. 2-Chloroethyl phenyl sulfone

CAS Registry Number: 938-09-0

Molecular Formula: C₈H₉ClO₂S

Molecular Weight: 204.677

Accurate Mass: 204.001177

Percentage Composition: C 46.95%; H 4.43%; Cl 17.32%; O 15.63%; S 15.67%

Physical Description: Solid

Melting Point: Mp 55-57.5°

Boiling Point: Bp 168-174°

Aldrich: 41764-5

Rare Chemicals Library: S57698-0

Other: Oakwood 3121

References:

Ford-Moore, A.H. *et al.*, *J.C.S.*, 1949, 1754, (*synth, haz*)

Brace, N.O., *J.O.C.*, 1993, **58**, 4506, (*synth, bibl*)