



>>Entry Name: Ethyl phenyl sulfide, 8Cl

Synonym(s): (Ethylthio)benzene, 9Cl. Thiophenetole

CAS Registry Number: 622-38-8

PhSEt

Molecular Formula: C₈H₁₀S

Molecular Weight: 138.233

Accurate Mass: 138.05032

Percentage Composition: C 69.51%; H 7.29%; S 23.20%

Physical Description: Oil

Melting Point: Mp -35°

Boiling Point: Bp 205°. Bp₁₅ 87-88°. Bp_{1.25} 79-80°

Density: d₄²⁰ 1.021

Refractive Index: n_D²⁶ 1.5655

Aldrich: 28452-1

Fluka: 4720

>>Derivative: S-Oxide

see Ethyl phenyl sulfoxide, [CXT98-Y](#)

>>Derivative: S,S-Dioxide

Synonym(s): (Ethylsulfonyl)benzene, 9Cl. Ethyl phenyl sulfone

CAS Registry Number: 599-70-2

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%

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 42°

Boiling Point: Bp 300°

Rare Chemicals Library: S57696-4

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 432B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1102A, (*ir*)

Adv. Chem. Ser., 1955, **15**, 176, (*props*)

Green, J.H.S., *Spectrochim. Acta*, 1962, **18**, 39, (*ir*)

Foley, M.J.Y. *et al.*, *J.C.S.*, 1963, 1899, (*synth, uv*)

Bowie, J.H. *et al.*, *J.C.S.(B)*, 1966, 951, (*ms*)

Krivdin, L.B. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1982, 565, (*pmr, cmr*)

Page, P.C.B. *et al.*, *Tetrahedron*, 1992, **48**, 5933, (*synth, nmr*)

Wang, L. *et al.*, *Synth. Commun.*, 2001, **31**, 1227-1232, (*synth, ir, pmr*)