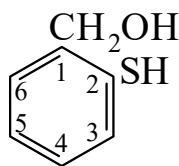




>>Entry Name: 2-Mercaptobenzenemethanol, 9CI

Synonym(s): 2-Mercaptobenzyl alcohol. 2-(Hydroxymethyl)thiophenol



CAS Registry Number: 4521-31-7

Molecular Formula: C₇H₈OS

Molecular Weight: 140.206

Accurate Mass: 140.029585

Percentage Composition: C 59.97%; H 5.75%; O 11.41%; S 22.87%

Physical Description: Needles (pentane)

Melting Point: Mp 31-32°

Aldrich: 43952-5

>>Derivative: S-Me

CAS Registry Number: 33384-77-9

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%

Boiling Point: Bp_{0.001} 88°

Rare Chemicals Library: S13295-0

>>Derivative: S-Benzyl

Molecular Formula: C₁₄H₁₄OS

Molecular Weight: 230.33

Accurate Mass: 230.076535

Percentage Composition: C 73.01%; H 6.13%; O 6.95%; S 13.92%

Physical Description: Needles (petrol)

Melting Point: Mp 48.5-49.5°

>>Derivative: Disulfide

Molecular Formula: C₁₄H₁₄O₂S₂

Molecular Weight: 278.395

Accurate Mass: 278.04352

Percentage Composition: C 60.40%; H 5.07%; O 11.49%; S 23.04%

Physical Description: Cryst.

Melting Point: Mp 141-142°

References:

Grice, R. *et al.*, *J.C.S.*, 1963, 1947, (*deriv*)

Stacy, G.W. *et al.*, *J.O.C.*, 1965, **30**, 4074, (*synth, ir*)

Arnoldi, A. *et al.*, *Synthesis*, 1988, 155, (*synth*)