



>>Entry Name: 4-Mercapto-1-butanol
ENTRY UNDER REVIEW

CAS Registry Number: 14970-83-3
HSCH2CH2CH2CH2OH

Molecular Formula: C4H10OS
Molecular Weight: 106.188
Accurate Mass: 106.045235
Percentage Composition: C 45.24%; H 9.49%; O 15.07%; S 30.20%
Physical Description: Liq. with unpleasant odour
Melting Point: Mp -99.2°
Boiling Point: Bp₂₀ 102-103°. Bp₅ 69-71°. Bp_{0.001} 38-43°

Aldrich: 45187-8
Fluka: 63757

>>Derivative: Pb(II) salt

Physical Description: Orange cryst. (EtOH aq.)
Melting Point: Mp 121.5°

>>Derivative: S-Ac

Molecular Formula: C6H12O2S
Molecular Weight: 148.226
Accurate Mass: 148.0558
Percentage Composition: C 48.62%; H 8.16%; O 21.59%; S 21.63%
Boiling Point: Bp₁₀ 124°
Refractive Index: n_D¹³ 1.4905

>>Derivative: S-Ac, phenylurethane

Physical Description: Cryst. (petrol)
Melting Point: Mp 64°

>>Derivative: O-Ac

Molecular Formula: C6H12O2S
Molecular Weight: 148.226
Accurate Mass: 148.0558
Percentage Composition: C 48.62%; H 8.16%; O 21.59%; S 21.63%
Boiling Point: Bp₂₀ 125-127°
Refractive Index: n_D¹⁸ 1.4634

>>Derivative: O-Ac, α-naphthylurethane

Physical Description: Cryst. (petrol)
Melting Point: Mp 76°

>>Derivative: O,S-Di-Ac

Molecular Formula: C8H14O3S
Molecular Weight: 190.263
Accurate Mass: 190.066365
Percentage Composition: C 50.50%; H 7.42%; O 25.23%; S 16.85%
Physical Description: Pale yellow oil
Boiling Point: Bp_{0.3} 84-86°
Refractive Index: n_D²⁰ 1.4724

>>Derivative: S-Me

Synonym(s): 4-(Methylthio)-1-butanol, 9CI. FEMA 3600

CAS Registry Number: 20582-85-8