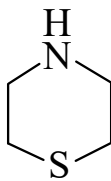




>>Entry Name: Thiomorpholine, 9CI, 8CI

Synonym(s): 1,4-Thiazane. Tetrahydrothiazine. Thiamorpholine. 1-Thia-4-azacyclohexane



CAS Registry Number: 123-90-0

Molecular Formula: C₄H₉NS

Molecular Weight: 103.188

Accurate Mass: 103.045569

Percentage Composition: C 46.56%; H 8.79%; N 13.57%; S 31.08%

Physical Description: Liq.

Boiling Point: Bp₇₄₆ 174°. Bp₁₀₀ 110°

Solubility: Misc. H₂O, most org. solvs.

Refractive Index: n_D²⁰ 1.5384

Aldrich: 19627-4

Fluka: 88885

Sigma: T9141

>>Derivative: Hydrochloride

CAS Registry Number: 5967-90-8

Physical Description: Needles (C₆H₆)

Melting Point: Mp 174-175°

Other Data: Softens at 145°

Fluka: 88345

>>Derivative: *N*-Ac

CAS Registry Number: 23863-19-6

Molecular Formula: C₆H₁₁NOS

Molecular Weight: 145.225

Accurate Mass: 145.056134

Percentage Composition: C 49.62%; H 7.63%; N 9.64%; O 11.02%; S 22.08%

Melting Point: Mp 149°

Boiling Point: Bp₁₀ 136-137°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 64918-16-7

Molecular Formula: C₁₁H₁₃NOS

Molecular Weight: 207.296

Accurate Mass: 207.071784

Percentage Composition: C 63.74%; H 6.32%; N 6.76%; O 7.72%; S 15.47%

Physical Description: Cryst.

Melting Point: Mp 68°

>>Derivative: *N*-Me

CAS Registry Number: 55675-72-4

Molecular Formula: C₅H₁₁NS

Molecular Weight: 117.215

Accurate Mass: 117.061219

Percentage Composition: C 51.24%; H 9.46%; N 11.95%; S 27.36%

Physical Description: Liq.

Boiling Point: Bp 163-164°

Solubility: Misc. H₂O