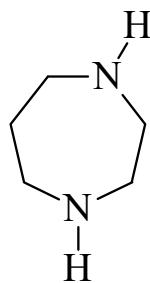




>>Entry Name: Hexahydro-1*H*-1,4-diazepine

Synonym(s): Homopiperazine. 1,4-Diazacycloheptane. Ethylene trimethylene diamine



CAS Registry Number: 505-66-8

Molecular Formula: C₅H₁₂N₂

Molecular Weight: 100.163

Accurate Mass: 100.100048

Percentage Composition: C 59.96%; H 12.08%; N 27.97%

Physical Description: Ammoniacal-smelling plates

Melting Point: Mp 42-43°

Boiling Point: Bp 167-170°. Bp₁₀ 60°

Aldrich: H1660-4

Fluka: 53585

Sigma: H2013

>>Derivative: Hydrochloride (1:2)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 270-290°

>>Derivative: Dipicrate

Molecular Formula: C₁₇H₁₈N₈O₁₄

Molecular Weight: 558.374

Percentage Composition: C 36.57%; H 3.25%; N 20.07%; O 40.11%

Physical Description: Yellow cryst. (H₂O)

Melting Point: Mp 267.5-268.5°

>>Derivative: *N*-Me

CAS Registry Number: 4318-37-0

Extra CAS Registry Numbers(s): 59870-13-2

Molecular Formula: C₆H₁₄N₂

Molecular Weight: 114.19

Accurate Mass: 114.115698

Percentage Composition: C 63.11%; H 12.36%; N 24.53%

Physical Description: Liq.

Boiling Point: Bp₇₅₄ 164°. Bp₂₀ 60.5-62.5°

Refractive Index: n_D²⁰ 1.4770

>>Derivative: *N*-Me, picrate

Melting Point: Mp 245 dec.°

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