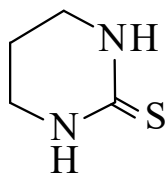




>>Entry Name: Tetrahydro-2(1H)-pyrimidinethione

Synonym(s): Hexahydropyrimidine-2-thione. Trimethylenethiourea



CAS Registry Number: 2055-46-1

Molecular Formula: C₄H₈N₂S

Molecular Weight: 116.187

Accurate Mass: 116.040818

Percentage Composition: C 41.35%; H 6.94%; N 24.11%; S 27.60%

Use/Importance: Used as 0.1% aq. soln. for extraction-photometric detn. of Bi ($\lambda_{\max}$ 430 nm, ϵ 13000, CHCl₃), Sb

Physical Description: Cryst. (EtOH)

Melting Point: Mp 211-211.5°

Hazard & Toxicity: LD₅₀ (mus, ipr) 560 mg/kg

Aldrich: T1515-6

Rare Chemicals Library: S51549-3

Sigma: T9263

>>Derivative: 1-Me

CAS Registry Number: 24421-05-4

Molecular Formula: C₅H₁₀N₂S

Molecular Weight: 130.213

Accurate Mass: 130.056468

Percentage Composition: C 46.12%; H 7.74%; N 21.51%; S 24.63%

Physical Description: Cryst.

Melting Point: Mp 132°

Rare Chemicals Library: S89772-8

References:

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Gilli, G. *et al.*, *Ric. Sci.*, 1968, **38**, 840; *CA*, **71**, 7552f, (*Me deriv, ir, uv, cryst struct*)

Assef, G. *et al.*, *Bull. Soc. Chim. Fr.*, 1979, 165, (*Me deriv, synth, ir, uv, pmr*)

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