



>>Entry Name: 5-Methyl-2-pyridinethiol

Synonym(s): 5-Methyl-2(1*H*)-pyridinethione. 2-Mercapto-5-methylpyridine

CAS Registry Number: 18368-58-6

Molecular Formula: C₆H₇NS

Molecular Weight: 125.194

Accurate Mass: 125.029919

Percentage Composition: C 57.56%; H 5.64%; N 11.19%; S 25.61%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 199-200°

>>Derivative: *N*-Oxide

CAS Registry Number: 40313-38-0

Molecular Formula: C₆H₇NOS

Molecular Weight: 141.193

Accurate Mass: 141.024834

Percentage Composition: C 51.04%; H 5.00%; N 9.92%; O 11.33%; S 22.71%

Use/Importance: Used for photometric detn. of Fe, Hg, Pd

Physical Description: Cryst.

Melting Point: Mp 100-102°

Solubility: Spar. sol. H₂O

>>Derivative: *N*-Oxide, Na salt

Melting Point: Mp 246-248°

pKa Value: p*K*_{a1} 4.71 (25°)

References:

Bell, C.L. *et al.*, *J. Het. Chem.*, 1965, **2**, 420; 1968, **5**, 647, (*synth, nmr, ms*)

Edrissi, M. *et al.*, *Microchem. J.*, 1971, **16**, 538, (*use, deriv*)