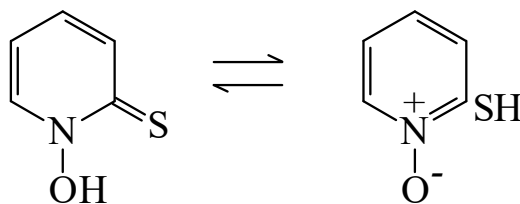




>>Entry Name: 1-Hydroxy-2(1*H*)-pyridinethione, 9CI

Synonym(s): Pyrithione. 2-Pyridinethiol *N*-oxide. Omadine. B 907



CAS Registry Number: 1121-30-8

Molecular Formula: C₅H₅NOS

Molecular Weight: 127.167

Accurate Mass: 127.009184

Percentage Composition: C 47.23%; H 3.96%; N 11.01%; O 12.58%; S 25.22%

Use/Importance: Many metal complexes used in cosmetics and pharmaceuticals. Reagent for thiohydroxamic esters used in Barton's radical decarboxylation. Used as a 0.02*M* CHCl₃ soln. for extraction-photometric detn. of Fe ($\lambda_{\max}$ 550 nm, ϵ 3400), V(*V*), Pd ($\lambda_{\max}$ 365 nm, ϵ 5240); gravimetric detn. of Ag, Fe(*III*); turbidimetric detn. of Ag. Antibacterial and antifungal agent. Photochemical source of OH radicals

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 68°

Solubility: Sol. CHCl₃

Hazard & Toxicity: Cytotoxic in the presence of light

>>Derivative: Zn salt (2:1)

>>Variant: *SH*-form

Molecular Formula: C₅H₅NOS

Molecular Weight: 127.167

Accurate Mass: 127.009184

Percentage Composition: C 47.23%; H 3.96%; N 11.01%; O 12.58%; S 25.22%

>>Derivative: *N*-Oxide

CAS Registry Number: 3811-73-2

Extra CAS Registry Numbers(s): 1121-31-9

Molecular Formula: C₅H₅NO₂S

Molecular Weight: 143.166

Accurate Mass: 143.004099

Percentage Composition: C 41.95%; H 3.52%; N 9.78%; O 22.35%; S 22.40%

Use/Importance: Useful reagent for decarboxylations

Fluka: 63844

Sigma: H7029

References:

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