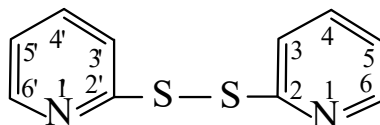




>>Entry Name: Di-2-pyridinyl disulfide

Synonym(s): 2,2'-Dithiobispyridine, 9Cl. 2,2'-Dipyridyl disulfide. Aldrithiol 2



CAS Registry Number: 2127-03-9

Related CAS Registry Numbers(s): 43143-11-9

Type of Compound Code(s): PA4100 PS8300

Molecular Formula: C₁₀H₈N₂S₂

Molecular Weight: 220.319

Accurate Mass: 220.012888

Percentage Composition: C 54.52%; H 3.66%; N 12.71%; S 29.11%

Use/Importance: Reagent for peptide coupling and macrocyclic lactonisation of ω-hydroxy acids and selective reagent for detecting thiols. Used as a 1mM soln. in EtOH for photometric detn. of S²⁽⁻⁾

Physical Description: Cryst. (petrol)

Melting Point: Mp 57-58°

Solubility: Sol. H₂O, EtOH, Me₂CO, C₆H₆

Aldrich: 14304-9

Fluka: 43792

Sigma: D5767

>>Derivative: *N,N'*-Dioxide

Synonym(s): Dipyrrithione, BSI, INN, USAN. Omadine disulfide. OMDS. Omadine-DS

CAS Registry Number: 3696-28-4

Type of Compound Code(s): XA1150 XA1550 VX1040 VA7400

Molecular Formula: C₁₀H₈N₂O₂S₂

Molecular Weight: 252.317

Accurate Mass: 252.002718

Percentage Composition: C 47.60%; H 3.20%; N 11.10%; O 12.68%; S 25.42%

Biological Source: Prod. by *Cortinarius* sp.

Use/Importance: Antibacterial, antifungal agent

Physical Description: Cryst. (MeOH)

Melting Point: Mp 205-206°. Mp 235-237°

Calculated Log P Data: Log P -2.31 (calc)

Hazard & Toxicity: Exp. reprod. and teratogenic effects

Aldrich: 19907-9

>>Derivative: *N,N'*-Dioxide, MgSO₄ complex

Synonym(s): Bispyrrithione magsulfex, USAN. [2,2'-Dithiobis[pyridine] 1,1'-dioxide-*O,O',S*][sulfato(2-)-*O*]magnesium, 9Cl. Omadine MDS

CAS Registry Number: 67182-81-4

Type of Compound Code(s): XA1550 XA1150

Molecular Formula: C₁₀H₈MgN₂O₆S₃

Molecular Weight: 372.686

Accurate Mass: 371.93949

Percentage Composition: C 32.23%; H 2.16%; Mg 6.52%; N 7.52%; O 25.76%; S 25.81%

Use/Importance: Antibacterial, antidandruff and antifungal agent

References: