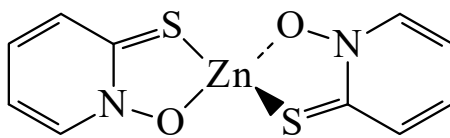




>>Entry Name: Bis[1-hydroxy-2(1*H*)-pyridinethionato-*O,S*]zinc, 11CI

Synonym(s): Pyrithione zinc, BAN, INN, USAN. Zinc polyanemine. Omadine OM 1563. Zinc pyrithione. Bis(2-pyridylthio)zinc 1,1'-dioxide. Zinc pyridinethione. Zinc omadine. De-squaman. Vancide ZP. Many other names



CAS Registry Number: 13463-41-7

Molecular Formula: C<sub>10</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>Zn

Molecular Weight: 317.707

Accurate Mass: 315.931863

Percentage Composition: C 37.81%; H 2.54%; N 8.82%; O 10.07%; S 20.19%; Zn 20.58%

Use/Importance: Antibacterial, antifungal, antiseborrheic agent. Formerly used commercially as a pesticide. Max. conc. allowed in cosmetics in UK (as a preservative) is 0.5%

Physical Description: White solid

Melting Point: Mp 262°

Solubility: Sol. DMSO, DMF, CHCl<sub>3</sub>; BERDY SOL: Poorly sol. hexane

UV: [neutral] λ<sub>max</sub> 246 (ε 53700); 274 (ε 20000); 327 (ε 6000) (EtOH) (Berdy)

Hazard & Toxicity: Exp. neurotoxic effects (hind limb paralysis in rodents)

Sigma: Z1250

#### References:

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