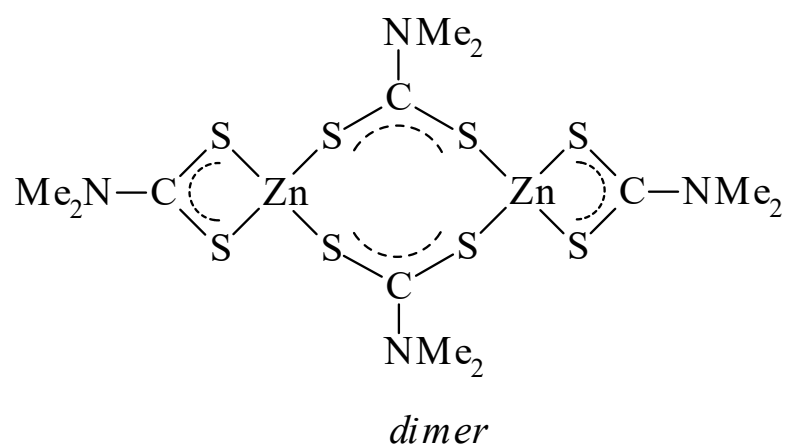




>>Entry Name: Bis(*N,N*-dimethyldithiocarbamato)zinc, 8Cl

Synonym(s): Bis(dimethylcarbamodithioato-*S,S'*)zinc, 9Cl. Ziram, BSl. Zirame. Milbam. Zerlate. Fuklasin. Aaproctect



CAS Registry Number: 137-30-4

Molecular Formula: C₆H₁₂N₂S₄Zn

Molecular Weight: 305.828

Accurate Mass: 303.917473

Percentage Composition: C 23.56%; H 3.95%; N 9.16%; S 41.94%; Zn 21.38%

General Statement: Monomeric in gas phase (*D*_{2d}). Dimeric in solid state

Source/Synthesis: Synth. from ZnO, Me₂NH and CS₂

Use/Importance: Agricultural fungicide; rubber vulcanisation accelerator

Physical Description: Powder

Melting Point: Mp 240°

Other Data: Dec. by H⁽⁺⁾, uv light

Hazard & Toxicity: Irritant. Forms inflammable dust. May be carcinogenic and mutagenic. Incompatible with Cu, Hg salts. LD₅₀ (rat, orl) 1400 mg/kg

Aldrich: 32971-1

Fluka: 96480

>>Derivative: Dimer

Synonym(s): Bis[μ-(dimethylcarbamodithioato-*S:S'*)]bis(dimethylcarbamodithioato-*S,S'*)dizinc

Molecular Formula: C₁₂H₂₄N₄S₈Zn₂

Molecular Weight: 611.656

Accurate Mass: 607.834946

Percentage Composition: C 23.56%; H 3.95%; N 9.16%; S 41.94%; Zn 21.38%

Physical Description: Pale yellow cryst. (CHCl₃ or CHCl₃/EtOH)

Melting Point: Mp 257° (250°)

Solubility: Insol. H₂O; spar sol. org. solvs.

>>Derivative: Py complex (monomeric)

Synonym(s): Bis(*N,N*-dimethyldithiocarbamato)pyridine zinc

CAS Registry Number: 14642-29-6

Molecular Formula: C₁₁H₁₇N₃S₄Zn

Molecular Weight: 384.929

Accurate Mass: 382.959672

Percentage Composition: C 34.32%; H 4.45%; N 10.92%; S 33.32%; Zn 16.99%

Use/Importance: Vulcanisation catalyst

Physical Description: Needles + ½C₆H₆ (C₆H₆)

Solubility: Insol. petrol

Other Data: Sinters at 225°. Dissoc. in soln. with loss of Py

References: