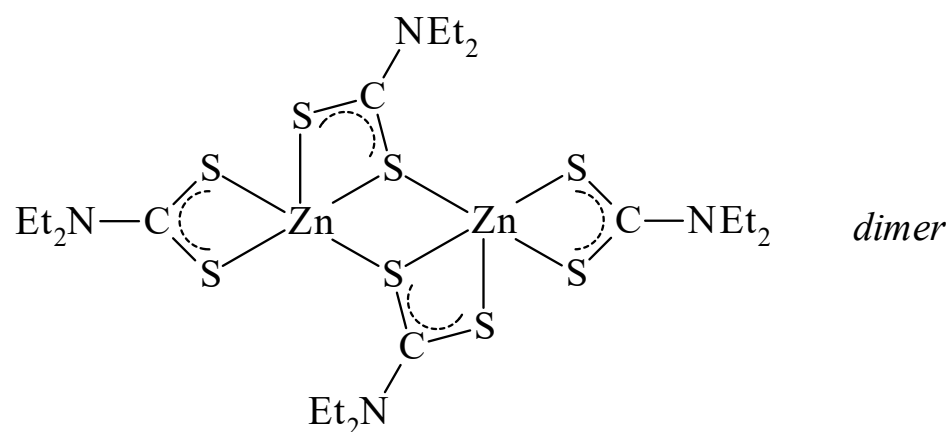




>>Entry Name: Bis(*N,N*-diethyldithiocarbamato)zinc

Synonym(s): Bis(diethylcarbamodithioato-*S,S'*)zinc, 9CI. Zinc diethyldithiocarbamate



CAS Registry Number: 14324-55-1

Molecular Formula: C₁₀H₂₀N₂S₄Zn

Molecular Weight: 361.935

Accurate Mass: 359.980073

Percentage Composition: C 33.19%; H 5.57%; N 7.74%; S 35.44%; Zn 18.07%

General Statement: Dimeric in solid state with distorted trigonal bipyramidal Zn

Use/Importance: Vulcanisation accelerator, antioxidant (for polymers); used in epitaxy of ZnS; fungicide and bactericide (antifouling agent)

Boiling Point: Subl. 130°

Other Data: Dec. at 230° via Zn₂(SCSNET₂)₂

Hazard & Toxicity: Eye, skin and mucous membrane irritant. LD₅₀ (rat, orl) 3340 mg/kg

Aldrich: 32970-3

>>Derivative: Dimer

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

Molecular Formula: C₂₀H₄₀N₄S₈Zn₂

Molecular Weight: 723.871

Accurate Mass: 719.960146

Percentage Composition: C 33.19%; H 5.57%; N 7.74%; S 35.44%; Zn 18.07%

Physical Description: Air-stable pale yellow cryst. (Me₂CO/CHCl₃)

Melting Point: Mp 177-179° (184°)

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