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## Product Data Sheet

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Product Name: Propineb  
Cat. No.: GC34724

### Chemical Properties

Cas. No. 12071-83-9

SMILES S=C([S-])NCC(C)NC1=[S][Zn+2][S-]1

Formula C5H8N2S4Zn M.Wt 289.77

Solubility DMSO : 33.33 mg/mL (93.85 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

Propineb (Zinc propylenebis) is a compound widely used in fruit and vegetables cultures, due to its large spectrum of activity against fungal plant diseases[1].

Propineb (Zinc propylenebis) has a moderate to low acute toxicity with a specific goitrogenic effect in rats. long-term exposure, oral or by inhalation is related to carcinogenicity, teratogenicity, malfunction of the reproductive system and malformation of their vitals[2].

[1]. Viviani B, et al. Dithiocarbamate propineb induces acetylcholine release through cytoskeletal actin depolymerization in PC12 cells. Toxicol Lett. 2008 Nov 10;182(1-3):63-8.

[2]. Kazos EA, et al. Determination of dithiocarbamate fungicide propineb and its main metabolite propylenethiourea in airborne samples. Chemosphere. 2007

Aug;68(11):2104-10.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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