

Product Data Sheet

Product Name: 4,5-Dichloro-3H-1,2-dithiol-3-one

Cat. No.: GC81998

Chemical Properties

Cas. No. 1192-52-5

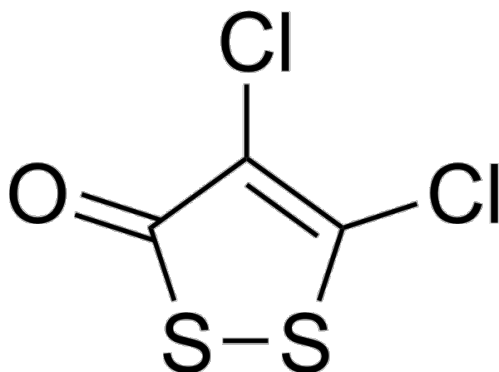
Formula $C_3Cl_2OS_2$ M.Wt 187.07

Solubility DMSO: 100 mg/mL (534.56 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

4,5-Dichloro-3H-1,2-dithiol-3-one (Dichloro-1,2-dithiacyclopentenone) is an E. coli FabH inhibitor (IC₅₀: 2.9 μM). 4,5-Dichloro-3H-1,2-dithiol-3-one can be used as a slimicide in the manufacture of food-contact paper and paperboard [1] [2].

References:

[1]. Song X, et al. Synthesis and antibacterial activity of cinnamaldehyde acylhydrazone with a 1,4-benzodioxan fragment as a novel class of potent β-ketoacyl-acyl carrier protein synthase III (FabH)

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

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inhibitor. Chem Pharm Bull (Tokyo). 2014;62(11):1110-8.

[2]. Mary S. Wolfe, et al. Chapter. National Toxicology Program. Book. Toxicology and Regulatory Process. 2006. Pages. 32

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