

Product Data Sheet

Product Name: Maleic hydrazide

Cat. No.: GC60234

Chemical Properties

Cas. No. 123-33-1

SMILES O=C1C=CC(NN1)=O

Formula C4H4N2O2

M.Wt 112.09

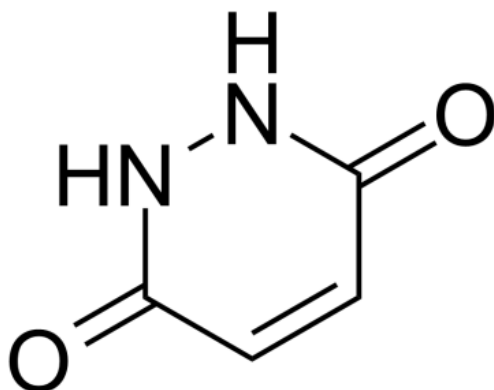
Solubility

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

Maleic hydrazide is extensively used as a systemic plant growth regulator and as a herbicide. Maleic hydrazide acts as an inhibitor of the synthesis of nucleic acids and proteins[1][2].

Maleic hydrazide is used in agriculture-in despite its known effect as a mutagenic and clastogenic agent. Maleic hydrazide had lower IC50 values for all cell lines compared to Ethephon. Maleic hydrazide also showed least cytotoxicity on Vero cells, followed by Hep2 and HepG2 cells[3].

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

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Maleic hydrazide has a low acute toxicity by oral, dermal, and inhalation routes of exposure[3].

[1]. Venezian A, et al. The Influence of the Plant Growth Regulator Maleic Hydrazide on Egyptian Broomrape Early Developmental Stages and Its Control Efficacy in Tomato under Greenhouse and Field Conditions. *Front Plant Sci.* 2017;8:691. Published 2017 May 16. [2]. Swietlińska Z, et al. Cytotoxic effects of maleic hydrazide. *Mutat Res.* 1978;55(1):15-30. [3]. Yurdakok B, et al. Cytotoxic effects of etephon and maleic hydrazide in Vero, Hep2, HepG2 cells. *Drug Chem Toxicol.* 2014;37(4):459-465.

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