
Product Data Sheet

Product Name: Fenitrothion

Cat. No.: GC60164

Chemical Properties

Cas. No. 122-14-5

SMILES S=P(OC)(OC)OC1=CC=C([N+])([O-])=O)C(C)=C1Formula C9H12NO5PS M.Wt 277.23

Solubility Ethanol : 100 mg/mL (360.71 mM; Need ultrasonic) Storage 4°C, stored under nitrogen

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**

Fenitrothion, one of the most widely used organophosphorus pesticides, is a cholinesterase inhibiting insecticide/acaricid. Fenitrothion is widely used, as a broad-spectrum insecticide, on cotton crops, vegetables crops, fruit crops, and field crops especially paddy. Fenitrothion leads to accumulation of nitrophenols[1][2].

[1]. Abdel-Ghany R, et al. Impact of Exposure to Fenitrothion on Vital Organs in Rats. J Toxicol. 2016;2016:5609734. [2]. Qing Hong, et al. A microcosm study on bioremediation of fenitrothion-contaminated soil using Burkholderia sp. FDS-1. International Biodeterioration & Biodegradation

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

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