

Product Data Sheet

Product Name: Pirimiphos-methyl

Cat. No.: GC60291

Chemical Properties

Cas. No. 29232-93-7

SMILES S=P(OC)(OC)OC1=NC(N(CC)CC)=NC(C)=C1

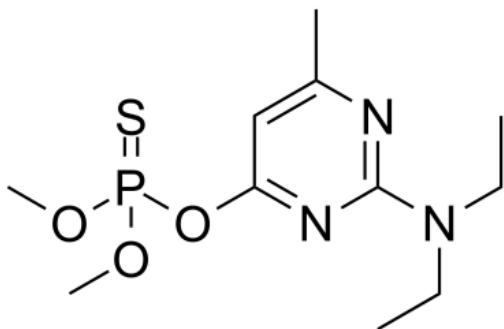
Formula $C_{11}H_{20}N_3O_3PS$ M.Wt 305.33

Solubility DMSO : 50 mg/mL (163.76 mM; Need ultrasonic) Storage 4°C, away from moisture and light

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



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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

Pirimiphos-methyl is a rapid-acting organophosphorus insecticide and acaricide, causing inhibition of AChE in target organisms. Pirimiphos-methyl is often used for prevention and control of beetles, snout beetles, moths and *Ephestia cautella* during storage of agricultural grains[1][2][3].

[1]. Shizhuang Weng, et al. Detection of Pirimiphos-Methyl in Wheat Using Surface-Enhanced Raman Spectroscopy and Chemometric Methods. *Molecules*. 2019 Apr 30;24(9):1691. [2]. Pål A Olsvik, et al. In Vitro Toxicity of Pirimiphos-Methyl in Atlantic Salmon Hepatocytes. *Toxicol In Vitro*. 2017 Mar;39:1-14. [3]. Esther Borrás, et al. Atmospheric Degradation of the Organothiophosphate Insecticide - Pirimiphos-methyl. *Sci Total Environ*. 2017 Feb 1;579:1-9.

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