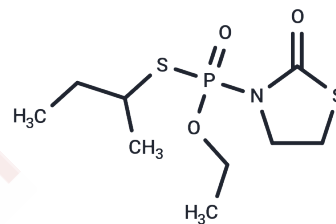


## Fosthiazate

## Chemical Properties

CAS No. :	98886-44-3
Formula:	C <sub>9</sub> H <sub>18</sub> NO <sub>3</sub> PS <sub>2</sub>
Molecular Weight:	283.35
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Fosthiazate is a chiral organophosphorus nematicide that acts by binding to and inhibiting acetylcholinesterase (AChE).
Targets(IC50)	Cholinesterase (ChE)

## Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5292 mL	17.646 mL	35.292 mL
5 mM	0.7058 mL	3.5292 mL	7.0584 mL
10 mM	0.3529 mL	1.7646 mL	3.5292 mL
50 mM	0.0706 mL	0.3529 mL	0.7058 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Lianshan Liet al. Chiral organophosphorous pesticide fosthiazate: absolute configuration, stereoselective bioactivity, toxicity, and degradation in vegetables. J Agric Food Chem. 2020 Jul 22;68(29):7609-7616.

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