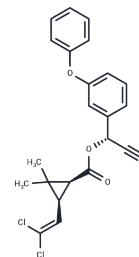


alpha-Cypermethrin

Chemical Properties

CAS No. :	67375-30-8
Formula:	C ₂₂ H ₁₉ Cl ₂ N ₃ O
Molecular Weight:	416.3
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	α -Cypermethrin is a synthetic pyrethroid pesticide used in large-scale commercial agricultural applications.
Targets(IC50)	Others
In vitro	Pregnant Sprague-Dawley rats were administered the insecticide α -cypermethrin at doses of 0.1, 1, 5, or 10mg/kg/day, or di-isobutyl phthalate (DIBP) at 250mg/kg/day, by gavage, from gestation day (GD) 13 to 19. Dams treated with 10mg/kg/day of α -cypermethrin showed clinical signs of neurotoxicity and reduced body weight gain.

Solubility Information

Solubility	H ₂ O: 5 mg/mL (12.01 mM),Sonication is recommended. DMSO: 41.63 mg/mL (100 mM),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	2.4021 mL	12.0106 mL	24.0211 mL
5 mM	0.4804 mL	2.4021 mL	4.8042 mL
10 mM	0.2402 mL	1.2011 mL	2.4021 mL
50 mM	0.048 mL	0.2402 mL	0.4804 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

Saillenfait AM, et al. Evaluation of the effects of α -cypermethrin on fetal rat testicular steroidogenesis. *Reprod Toxicol.* 2017 Sep;72:106-114.

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