

Fenoxycarb

Chemical Properties

CAS No. : 72490-01-8

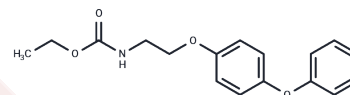
Formula: C₁₇H₁₉NO₄

Molecular Weight: 301.34

Store at low temperature

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	Fenoxycarb (Insegar) is an insecticide against mosquitoes.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 83.33 mg/mL (276.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 8.33 mg/mL (27.64 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3185 mL	16.5926 mL	33.1851 mL
5 mM	0.6637 mL	3.3185 mL	6.637 mL
10 mM	0.3319 mL	1.6593 mL	3.3185 mL
50 mM	0.0664 mL	0.3319 mL	0.6637 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

- Mahmoudvand M, Moharramipour S. Sublethal Effects of Fenoxycarb on the *Plutella xylostella* (Lepidoptera: Plutellidae). *J Insect Sci.* 2015 Jul 1;15. pii:82.
- Zeglinski J, Svård M, Karpinska J, Kuhs M, Rasmuson ÅC. Analysis of the structure and morphology of fenoxycarb crystals. *J Mol Graph Model.* 2014 Sep;53:92-99.
- Navis S, Waterkeyn A, Putman A, De Meester L, Vanermen G, Brendonck L. Timing matters: sensitivity of *Daphnia magna* dormant eggs to fenoxycarb exposure depends on embryonic developmental stage. *Aquat Toxicol.* 2015 Feb;159:176-83.
- Ahern J, Kanan S, Sara Z, Job T, Alnaizy R, Abu Farha N, Patterson H. Photocatalysis of fenoxycarb over silver-modified zeolites. *Environ Sci Pollut Res Int.* 2015 Mar;22(5):3186-92.

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