

Resmethrin

Chemical Properties

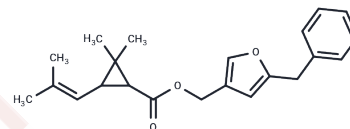
CAS No. : 10453-86-8

Formula: C₂₂H₂₆O₃

Molecular Weight: 338.44

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	Resmethrin, a synthetic pyrethroid insecticide, is used against a variety of insects.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9547 mL	14.7737 mL	29.5473 mL
5 mM	0.5909 mL	2.9547 mL	5.9095 mL
10 mM	0.2955 mL	1.4774 mL	2.9547 mL
50 mM	0.0591 mL	0.2955 mL	0.5909 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

- Soderlund DM. Resmethrin, the first modern pyrethroid insecticide. *Pest Manag Sci*. 2015 Jun;71(6):801-7. doi: 10.1002/ps.3881. Epub 2014 Nov 17. Review. PubMed PMID: 25124081.
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- Jankowski MD, Franson JC, Möstl E, Porter WP, Hofmeister EK. Testing independent and interactive effects of corticosterone and synergized resmethrin on the immune response to West Nile virus in chickens. *Toxicology*. 2010 Feb 28;269(1):81-8. doi: 10.1016/j.tox.2010.01.010. Epub 2010 Jan 22. PubMed PMID: 20096745; PubMed Central PMCID: PMC2861826.
- Rand GM. Hazard assessment of resmethrin: I. Effects and fate in aquatic systems. *Ecotoxicology*. 2002 Apr;11(2):101-11. PubMed PMID: 11990766.

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