

## Fenpropidin

## Chemical Properties

CAS No. : 67306-00-7

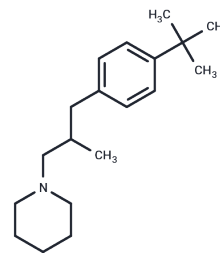
Formula: C<sub>19</sub>H<sub>31</sub>N

Molecular Weight: 273.46

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Fenpropidin (Ro-12-3049), a fungicide, is a specific inhibitor of sterol 14-reductase and biosynthesis.
Targets(IC50)	Antifungal

## Solubility Information

Solubility	DMSO: 50 mg/mL (182.84 mM), Sonication is recommended. H <sub>2</sub> O: 0.53 mg/mL (1.94 mM), when pH is adjusted to 7. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6568 mL	18.2842 mL	36.5684 mL
5 mM	0.7314 mL	3.6568 mL	7.3137 mL
10 mM	0.3657 mL	1.8284 mL	3.6568 mL
50 mM	0.0731 mL	0.3657 mL	0.7314 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

Zhao H, et al. Dissipation and residue of fenpropidin in wheat and soil under field conditions. *Ecotoxicol Environ Saf.* 2012 Mar;77:52-6.

Buerge IJ, et al. Stereoselective Metabolism of the Sterol Biosynthesis Inhibitor Fungicides Fenpropidin, Fenpropimorph, and Spiroxamine in Grapes, Sugar Beets, and Wheat. *J Agric Food Chem.* 2016 Jul 6;64(26):5301-9.

Feigenbrugel V, Le Calvé S, Mirabel P. Molar absorptivities of 2,4-D, cymoxanil, fenpropidin, isoproturon and pyrimethanil in aqueous solution in the near-UV. *Spectrochim Acta A Mol Biomol Spectrosc.* 2006 Jan;63(1):103-10. Epub 2005 Oct 26.

Jachak GR, et al. Silicon Incorporated Morpholine Antifungals: Design, Synthesis, and Biological Evaluation. *ACS Med Chem Lett.* 2015 Sep 22;6(11):1111-6.

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