

## D-Phenothrin

## Chemical Properties

CAS No. : 26046-85-5

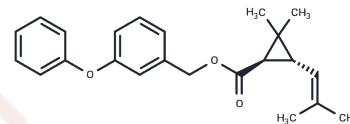
Formula: C<sub>23</sub>H<sub>26</sub>O<sub>3</sub>

Molecular Weight: 350.45

Keep away from moisture

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	D-Phenothrin ((-)-trans-Phenothrin) is a type II synthetic pyrethroid extensively employed in veterinary medicine for pest control on animals, crop protection, and the elimination of insects, mosquitoes, and human lice.
Targets(IC50)	Parasite
In vivo	D-Phenothrin administered to rats intraperitoneally for 14 consecutive days generated free radical species in a dose-dependent manner and caused oxidative DNA damage in the liver and kidney[1].

## Solubility Information

Solubility	DMSO: 60 mg/mL (171.21 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	2.8535 mL	14.2674 mL	28.5347 mL
5 mM	0.5707 mL	2.8535 mL	5.7069 mL
10 mM	0.2853 mL	1.4267 mL	2.8535 mL
50 mM	0.0571 mL	0.2853 mL	0.5707 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

Atmaca E, et al. d-Phenothrin-induced oxidative DNA damage in rat liver and kidney determined by HPLC-ECD/DAD. Environ Toxicol. 2015 May;30(5):607-13.

Yamada T, et al. Lack of estrogenic or (anti-)androgenic effects of d-phenothrin in the uterotrophic and Hershberger assays. Toxicology. 2003 Apr 22;186(3):227-39.

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