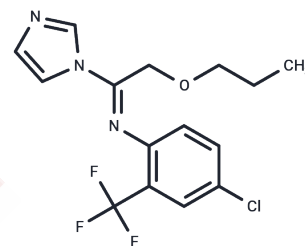


## Triflumizole

## Chemical Properties

CAS No. :	68694-11-1
Formula:	C <sub>15</sub> H <sub>15</sub> ClF <sub>3</sub> N <sub>3</sub> O
Molecular Weight:	345.75
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	Triflumizole is an imidazole-class fungicide that acts as an inhibitor of ergosterol biosynthesis, thereby disrupting fungal cell membrane integrity, Triflumizole is extensively used in agricultural and plant pathology research to control powdery mildew and scab diseases across a wide range of fruits and crops while enabling studies on antifungal resistance mechanisms.
Targets(IC50)	Others
In vitro	In growth assays using the freshwater green algae <i>Chlorella vulgaris</i> , Triflumizole inhibited growth in a concentration-dependent manner with a 96-hour EC <sub>50</sub> of 4.85 mg/L [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (231.38 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	2.8923 mL	14.4613 mL	28.9226 mL
5 mM	0.5785 mL	2.8923 mL	5.7845 mL
10 mM	0.2892 mL	1.4461 mL	2.8923 mL
50 mM	0.0578 mL	0.2892 mL	0.5785 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

Jiejun Xi, et al. Acute toxicity of triflumizole to freshwater green algae *Chlorella vulgaris*. *Pestic Biochem Physiol.* 2019 Jul;158:135-142.

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