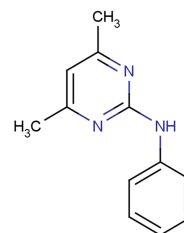


Pyrimethanil

Chemical Properties

CAS No. :	53112-28-0
Formula:	C ₁₂ H ₁₃ N ₃
Molecular Weight:	199.25
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Pyrimethanil is a strobilurin fungicide belonging to the anilinopyrimidine class. Pyrimethanil is a broad-spectrum contact fungicide for the control of Botrytis spp. on a wide variety of crops. Pyrimethanil inhibits the biosynthesis of methionine and other amino acids in Botrytis cinerea.
Targets(IC ₅₀)	Antifungal
In vitro	Pyrimethanil(3 days) decreased polygalacturonase, cellulase, proteinase and laccase activities. Pyrimethanil resulted in 50% reduction (IC ₅₀) in total enzyme activities such as polygalacturonase, cellulase and proteinase(IC ₅₀ = approximately 2.5 μM), and laccase(IC ₅₀ = 1.0 μM)[3].

Solubility Information

Solubility	DMSO: 130 mg/mL (652.45 mM) <math>< 1\text{ mg/ml}</math> refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0188 mL	25.0941 mL	50.1882 mL
5 mM	1.0038 mL	5.0188 mL	10.0376 mL
10 mM	0.5019 mL	2.5094 mL	5.0188 mL
50 mM	0.1004 mL	0.5019 mL	1.0038 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.

Reference

L Kanetis, et al. Characterization of genetic and biochemical mechanisms of fludioxonil and pyrimethanil resistance in field isolates of *Penicillium digitatum*. Phytopathology

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