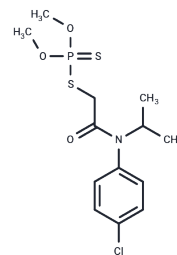


Anilofos

Chemical Properties

CAS No. :	64249-01-0
Formula:	C ₁₃ H ₁₉ ClNO ₃ PS ₂
Molecular Weight:	367.85
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	Anilofos, a widely used thionoorganophosphate herbicide, is used for pre-emergence and early post-emergence control annual sedges and grass weeds in transplanted rice crops.
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	2.7185 mL	13.5925 mL	27.185 mL
5 mM	0.5437 mL	2.7185 mL	5.437 mL
10 mM	0.2718 mL	1.3592 mL	2.7185 mL
50 mM	0.0544 mL	0.2718 mL	0.5437 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

- Özkara A, Akyıl D, Eren Y, Erdoğmuş SF. Potential cytotoxic effect of Anilofos by using *Allium cepa* assay. *Cytotechnology*. 2015 Oct;67(5):783-91. doi: 10.1007/s10616-014-9716-1. Epub 2014 May 17. PubMed PMID: 24838422; PubMed Central PMCID: PMC4545445.
- Tandon S. Degradation kinetics of anilofos in soil and residues in rice crop at harvest. *Pest Manag Sci*. 2014 Nov;70(11):1706-10. doi: 10.1002/ps.3707. Epub 2014 Feb 17. PubMed PMID: 24339403.
- Singh DP, Khattar JI, Kaur M, Kaur G, Gupta M, Singh Y. Anilofos tolerance and its mineralization by the cyanobacterium *Synechocystis* sp. strain PUPCCC 64. *PLoS One*. 2013;8(1):e53445. doi: 10.1371/journal.pone.0053445. Epub 2013 Jan 31. PubMed PMID: 23382844; PubMed Central PMCID: PMC3561370.
- Zhang Y, Gao AH, Liu B, Sheng W, Tan C, Yuan M, Wang S. A direct competitive enzyme-linked immunosorbent assay for rapid detection of anilofos residues in agricultural products and environmental samples. *J Environ Sci Health B*. 2013;48(1):1-8. doi: 10.1080/03601234.2012.716667. PubMed PMID: 23030434.

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