

Dicapthon

Chemical Properties

CAS No.:	2463-84-5
Formula:	C ₈ H ₉ CINO ₅ PS
Molecular Weight:	297.65
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Dicapthon is an insecticide. Dicapthon increases the occurrence of abnormal cell frequency, decreases the mitotic index, and decreases the nuclear division index.
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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	3.360 mL	16.798 mL	33.597 mL
5 mM	0.672 mL	3.360 mL	6.719 mL
10 mM	0.336 mL	1.680 mL	3.360 mL
50 mM	0.067 mL	0.336 mL	0.672 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Liman R. Mutagenicity and genotoxicity of dicapthon insecticide. Cytotechnology. 2014 Oct;66(5):741-51. doi: 10.1007/s10616-013-9623-x. Epub 2014 Jan 31. PubMed PMID: 24477548; PubMed Central PMCID: PMC4158013.
2. Baughman RG, Hall GB. Two organophosphorus pesticides: methyl parathion and dicapthon. Acta Crystallogr C Struct Chem. 2014 Oct;70(Pt 10):975-7. doi: 10.1107/S2053229614020233. Epub 2014 Sep 28. PubMed PMID: 25279599.
3. Bowman BT, Sans WW. Further water solubility determinations of insecticidal compounds. J Environ Sci Health B. 1983;18(2):221-7. PubMed PMID: 6853964.
4. Hoehamer CF, Mazur CS, Wolfe NL. Purification and partial characterization of an acid phosphatase from Spirodela oligorrhiza and its affinity for selected organophosphate pesticides. J Agric Food Chem. 2005 Jan 12;53(1):90-7. PubMed PMID: 15631514.

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