

Cythioate

Chemical Properties

CAS No.:	115-93-5
Formula:	C ₈ H ₁₂ NO ₅ PS ₂
Molecular Weight:	297.28
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cythioate is a cholinesterase inhibitor. Cythioate is used as an insecticide.
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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	3.364 mL	16.819 mL	33.638 mL
5 mM	0.673 mL	3.364 mL	6.728 mL
10 mM	0.336 mL	1.682 mL	3.364 mL
50 mM	0.067 mL	0.336 mL	0.673 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. Dryden MW. Differential activity of cythioate against female and male *Ctenocephalides felis* on cats. *Am J Vet Res.* 1992 May;53(5):801-2. PubMed PMID: 1524312.
2. Hazelwood JC, Stefan GE, Bowen JM. Motor unit irritability in Beagles Before and after exposure to cholinesterase inhibitors. *Am J Vet Res.* 1979 Jun;40(6):852-6. PubMed PMID: 89824.
3. Bowen PM, Caldwell NJ. Use of cythioate to control external parasites on cats and dogs. *Vet Med Small Anim Clin.* 1982 Jan;77(1):79-80. PubMed PMID: 7039075.
4. Crystal MM, DeMilo AB. Susceptibility of laboratory-reared northern fowl mites, *Ornithonyssus sylviarum* (Acari: Macronyssidae), to selected acaricides. *Exp Appl Acarol.* 1988 Jul;4(4):353-8. PubMed PMID: 3168660.

Inhibitors · Natural Compounds · Compound Libraries

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