

Dimethoate

Chemical Properties

CAS No. : 60-51-5

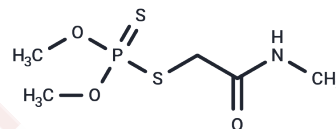
Formula: C₅H₁₂NO₃PS₂

Molecular Weight: 229.26

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dimethoate (L-395) is a systemic and contact insecticide for control of cattle grubs and certain other insect pests of farm animals.
Targets(IC50)	Apoptosis,Others,Cholinesterase (ChE),ROS

Solubility Information

Solubility	H ₂ O: 10 mg/mL (43.62 mM),Sonication and heating to 60°C are recommended. 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	4.3619 mL	21.8093 mL	43.6186 mL
5 mM	0.8724 mL	4.3619 mL	8.7237 mL
10 mM	0.4362 mL	2.1809 mL	4.3619 mL
50 mM	0.0872 mL	0.4362 mL	0.8724 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

Hassen W, Neifar M, Cherif H, Mahjoubi M, Souissi Y, Raddadi N, Fava F, Cherif A. Assessment of genetic diversity and bioremediation potential of pseudomonads isolated from pesticide-contaminated artichoke farm soils. *3 Biotech*. 2018 Jun;8(6):263. doi: 10.1007/s13205-018-1256-5. Epub 2018 May 19. PubMed PMID: 29805953; PubMed Central PMCID: PMC5960461.

Calatayud-Vernich P, Calatayud F, Simó E, Picó Y. Pesticide residues in honey bees, pollen and beeswax: Assessing beehive exposure. *Environ Pollut*. 2018 May 23;241:106-114. doi: 10.1016/j.envpol.2018.05.062. [Epub ahead of print] PubMed PMID: 29803024.

Liu X, Li Y, Zhou X, Luo K, Hu L, Liu K, Bai L. Photocatalytic degradation of dimethoate in Bok choy using cerium-doped nano titanium dioxide. *PLoS One*. 2018 May 17;13(5):e0197560. doi: 10.1371/journal.pone.0197560. eCollection 2018. PubMed PMID: 29771967.

Hayat K, Afzal M, Aqueel MA, Ali S, Saeed MF, Khan QM, Ashfaq M, Damalas CA. Insecticide exposure affects DNA and antioxidant enzymes activity in honey bee species *Apis florea* and *A. dorsata*: Evidence from Punjab, Pakistan. *Sci Total Environ*. 2018 Apr 23;635:1292-1301. doi: 10.1016/j.scitotenv.2018.04.221. [Epub ahead of print] PubMed PMID: 29710582.

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