

Metam-sodium

Chemical Properties

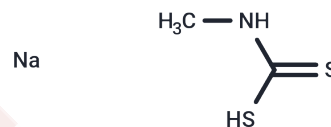
CAS No. : 137-42-8

Formula: C₂H₄NNaS₂

Molecular Weight: 129.17

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	Metam-sodium is an organic sodium salt and organosulfur insecticide that appears as a yellow to light yellow-green solution with varying strengths of amine and sulfur odors. It can be used as a herbicide, insecticide, fungicide and pesticide.
Targets(IC50)	Others,Antifungal

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	7.7417 mL	38.7087 mL	77.4174 mL
5 mM	1.5483 mL	7.7417 mL	15.4835 mL
10 mM	0.7742 mL	3.8709 mL	7.7417 mL
50 mM	0.1548 mL	0.7742 mL	1.5483 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

Park CG, Son JK, Lee BH, Cho JH, Ren Y. Comparison of Ethanedinitrile (C₂N₂) and Metam Sodium for Control of *Bursaphelenchus xylophilus* (Nematoda: Aphelenchidae) and *Monochamus alternatus* (Coleoptera: Cerambycidae) in Naturally Infested Logs at Low Temperatures. *J Econ Entomol.* 2014 Dec;107(6):2055-60. doi: 10.1603/EC14009. PubMed PMID: 26470069.

Woodrow JE, LePage JT, Miller GC, Hebert VR. Determination of methyl isocyanate in outdoor residential air near metam-sodium soil fumigations. *J Agric Food Chem.* 2014 Sep 10;62(36):8921-7. doi: 10.1021/jf501696a. Epub 2014 Sep 2. PubMed PMID: 25144617.

Ajwa HA, Sullivan DA, Holdsworth MT, Sullivan RD, Nelson SD. Reduction of methyl isothiocyanate atmospheric emissions after application of metam sodium by shank injection. *J Environ Qual.* 2013 Nov;42(6):1652-60. doi: 10.2134/jeq2013.05.0182. PubMed PMID: 25602406.

Fetterer RH, Jenkins MC, Miska KB, Cain GD. Metam sodium reduces viability and infectivity of *Eimeria* oocysts. *J Parasitol.* 2010 Jun;96(3):632-7. doi: 10.1645/GE-2345.1. PubMed PMID: 20557209.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481