

Carbetamide

Chemical Properties

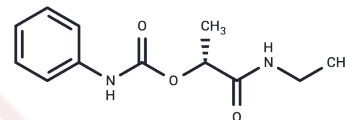
CAS No. : 16118-49-3

Formula: C₁₂H₁₆N₂O₃

Molecular Weight: 236.27

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	Carbetamide (Caswell No. 159B) is a herbicide with a good reproduction of mobility in the soil.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 45 mg/mL (190.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2324 mL	21.1622 mL	42.3245 mL
5 mM	0.8465 mL	4.2324 mL	8.4649 mL
10 mM	0.4232 mL	2.1162 mL	4.2324 mL
50 mM	0.0846 mL	0.4232 mL	0.8465 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

Guardigli A, Chow W, Lefar MS. Determination of carbetamide residues and its aniline metabolite. *J Agric Food Chem.* 1972 Mar-Apr;20(2):348-50.

Tediosi A, et al. Measurement and conceptual modelling of herbicide transport to field drains in a heavy clay soil with implications for catchment-scale water quality management. *Sci Total Environ.* 2012 Nov 1;438:103-12.

Crovetto G, et al. Mobility and fate of carbetamide in an agricultural soil. *J Environ Sci Health B.* 2009 Nov;44(8):764-71.

Lagator M, et al. Herbicide cycling has diverse effects on evolution of resistance in *Chlamydomonas reinhardtii*. *Evol Appl.* 2013 Feb;6(2):197-206.

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