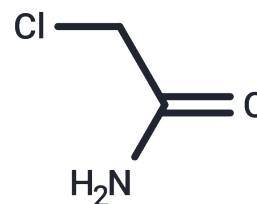


## 2-Chloroacetamide

## Chemical Properties

CAS No. :	79-07-2
Formula:	C <sub>2</sub> H <sub>4</sub> ClNO
Molecular Weight:	93.51
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	2-Chloroacetamide is a multifunctional chemical compound widely applied as a preservative and herbicide for vegetation control in upland and paddy field environments, 2-Chloroacetamide also serves as a biocide in agriculture, adhesives, paints, and coatings. 2-Chloroacetamide additionally exhibiting inhibitory activity against very-long-chain fatty acid elongase, highlighting its relevance across agrochemical, industrial, and biochemical research applications.
Targets(IC50)	Others

## Solubility Information

Solubility	H <sub>2</sub> O: 80 mg/mL (855.52 mM),Sonication is recommended. DMSO: 80 mg/mL (855.52 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	10.694 mL	53.4702 mL	106.9404 mL
5 mM	2.1388 mL	10.694 mL	21.3881 mL
10 mM	1.0694 mL	5.347 mL	10.694 mL
50 mM	0.2139 mL	1.0694 mL	2.1388 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

Hidenori Okamoto, et al. Synthesis and Herbicidal Activity of N(1-Arylethenyl)-2-chloroacetamides. *Agricultural and Biological Chemistry*, Volume 55, 1991-Issue 11.

A Fonia, et al. Active Sensitization to Chloracetamide. *Contact Dermatitis*. 2009 Jan;60(1):58-9.

Christian Eckermann, et al. Covalent Binding of Chloroacetamide Herbicides to the Active Site Cysteine of Plant Type III Polyketide Synthases. *Phytochemistry*. 2003 Nov;64(6):1045-54.

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