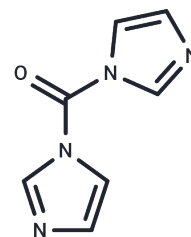


## N,N'-Carbonyldiimidazole

## Chemical Properties

CAS No. :	530-62-1
Formula:	C7H6N4O
Molecular Weight:	162.15
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	N,N'-Carbonyldiimidazole is a biological cross-linking agent that has great application in mass spectrometry to detect the purity of compounds.
Targets(IC50)	Others

## 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	6.1671 mL	30.8356 mL	61.6713 mL
5 mM	1.2334 mL	6.1671 mL	12.3343 mL
10 mM	0.6167 mL	3.0836 mL	6.1671 mL
50 mM	0.1233 mL	0.6167 mL	1.2334 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

- Borges-Muñoz A, et al. Derivatization and determination of residual N,N-Carbonyldiimidazole by LC for an in-process control test. *J Pharm Biomed Anal.* 2022 Jan 5;207:114395.
- Ho J, et al. N,N'-Carbonyldiimidazole-mediated functionalization of superparamagnetic nanoparticles as vaccine carrier. *Colloids Surf B Biointerfaces.* 2011 Mar;83(1):83-90.
- Chen H, et al. Unsaturated Polyester Resin Nanocomposites Containing ZnO Modified with Oleic Acid Activated by N,N'-Carbonyldiimidazole. *Polymers (Basel).* 2018 Mar 24;10(4):362.
- Kovalenko SI, et al. Substituted 2-[(2-Oxo-2H-[1,2,4]triazino [2,3-c]quinazolin-6-yl)thio]acetamides with Thiazole and Thiadiazole Fragments: Synthesis, Physicochemical Properties, Cytotoxicity, and Anticancer Activity. *Sci Pharm.* 2012 Oct-Dec;80(4):837-65.

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