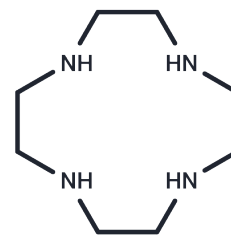


## Cyclen

## Chemical Properties

CAS No. :	294-90-6
Formula:	C <sub>8</sub> H <sub>20</sub> N <sub>4</sub>
Molecular Weight:	172.27
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	Cyclen (1,4,7,10-tetraazacyclododecane) is a macrocycle capable of selectively binding cations that used as a ligand in chemistry for instance with chemicals used in MRI contrast agents.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), H <sub>2</sub> O: 105 mg/mL (609.51 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	5.8048 mL	29.0242 mL	58.0484 mL
5 mM	1.161 mL	5.8048 mL	11.6097 mL
10 mM	0.5805 mL	2.9024 mL	5.8048 mL
50 mM	0.1161 mL	0.5805 mL	1.161 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

Rashid HU, et al. Cyclen-based Gd<sup>3+</sup> complexes as MRI contrast agents: Relaxivity enhancement and ligand design. *Bioorg Med Chem.* 2016 Nov 15;24(22):5663-5684.

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