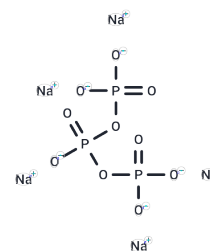


## Sodium Tripolyphosphate

### Chemical Properties

CAS No. :	7758-29-4
Formula:	Na <sub>5</sub> O <sub>10</sub> P <sub>3</sub>
Molecular Weight:	367.86
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	Sodium tripolyphosphate can chelate metal ions and is commonly used as a detergent additive and water softener. It can also be used to prepare buffer solutions with a pH of 9.2-10.5.
Targets(IC50)	Others

### Solubility Information

Solubility	H <sub>2</sub> O: 80 mg/mL (217.47 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	2.7184 mL	13.5921 mL	27.1843 mL
5 mM	0.5437 mL	2.7184 mL	5.4369 mL
10 mM	0.2718 mL	1.3592 mL	2.7184 mL
50 mM	0.0544 mL	0.2718 mL	0.5437 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

Bhumkar DR, et al. Studies on effect of pH on cross-linking of chitosan with sodium tripolyphosphate: a technical note. AAPS PharmSciTech. 2006 Jun 2;7(2):E50.

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