

## Trisodium phosphate dodecahydrate

## Chemical Properties

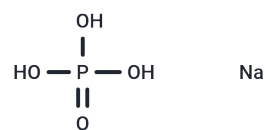
CAS No. : 10101-89-0

Formula: H<sub>24</sub>Na<sub>3</sub>O<sub>16</sub>P

Molecular Weight: 380.18

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

H<sub>2</sub>O

## Biological Description

Description	Trisodium phosphate dodecahydrate serves as a corrosion inhibitor for iron in 0.1 M NaClO <sub>4</sub> solutions, effective under both aerated and deaerated conditions. Additionally, it acts as an excipient in pharmaceutical formulations, functioning primarily as a pH regulator and buffer. These excipients, also known as pharmaceutical auxiliaries, are substances utilized in the pharmaceutical manufacturing process besides the active pharmaceutical ingredients. They are crucial for enhancing the stability, solubility, and processability of pharmaceutical products. Moreover, pharmaceutical excipients play a significant role in influencing the absorption, distribution, metabolism, and elimination (ADME) of co-administered drugs, thereby affecting their efficacy and safety [1] [2].
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6303 mL	13.1517 mL	26.3033 mL
5 mM	0.5261 mL	2.6303 mL	5.2607 mL
10 mM	0.263 mL	1.3152 mL	2.6303 mL
50 mM	0.0526 mL	0.263 mL	0.5261 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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