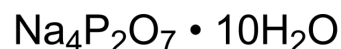


## Sodium pyrophosphate decahydrate

Cat. No.:	HY-W094510
CAS No.:	13472-36-1
Molecular Formula:	$H_{20}Na_4O_{17}P_2$
Molecular Weight:	446.06
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 33.33 mg/mL (74.72 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.2419 mL	11.2093 mL	22.4185 mL
	5 mM		0.4484 mL	2.2419 mL	4.4837 mL
	10 mM		0.2242 mL	1.1209 mL	2.2419 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Sodium pyrophosphate decahydrate can be as a buffering agent, a chelator and a hydrated salt nucleating agent. Sodium pyrophosphate decahydrate can also be used to a raw material for synthetic laundry scent additives<sup>[1][2]</sup>.

### REFERENCES

- [1]. Xin Xu, et al. Local Electric Field Modulated Reactivity of Pseudomonas aeruginosa Acid Phosphatase for Enhancing Phosphorylation of l-Ascorbic Acid. ACS Catal. 2021, 11, 21, 13397-13407.
- [2]. Kai Luo, et al. Preparation and Thermal Performance Analysis of New Composite Phase Change Materials of Sodium Acetate Trihydrate and Different Additives. Volume7, Issue13. April 5, 2022. e202104346

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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