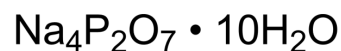


Sodium pyrophosphate decahydrate

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

H₂O : 33.33 mg/mL (74.72 mM; Need ultrasonic)

Concentration	Solvent	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^{[1][2]}.

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

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

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