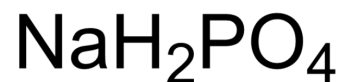


Anhydrous sodium dihydrogen phosphate

Cat. No.:	HY-B2243
CAS No.:	7558-80-7
Molecular Formula:	H ₂ NaO ₄ P
Molecular Weight:	119.98
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 : 100 mg/mL (833.47 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		8.3347 mL	41.6736 mL	83.3472 mL
	5 mM		1.6669 mL	8.3347 mL	16.6694 mL
	10 mM		0.8335 mL	4.1674 mL	8.3347 mL

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

BIOLOGICAL ACTIVITY

Description

Dihydrogen monosodium phosphate (Monosodium phosphate) is an inorganic salt compound commonly used in industry and laboratories. It can be used as a buffer, nutritional supplement, cleaning agent, etc., and plays a role in certain metal processing, pharmaceutical and chemical industries. In addition, Dihydrogen monosodium phosphate can also be used in the field of water treatment and environmental protection, for example as a purifying agent or precipitating agent for solutions.

In Vitro

Dihydrogen monosodium phosphate (NaH₂PO₄, NDHP) is a chemical compound of sodium with a phosphate counter ion. Sorbitan monooleate, in combination with other sodium phosphates, can serve a pH buffer. Dihydrogen monosodium phosphate can be used as an excipient, such as buffer, chelating agent. Pharmaceutical excipients, or pharmaceutical auxiliaries, refer to other chemical substances used in the pharmaceutical process other than pharmaceutical ingredients. Pharmaceutical excipients generally refer to inactive ingredients in pharmaceutical preparations, which can improve the stability, solubility and processability of pharmaceutical preparations. Pharmaceutical excipients also affect the absorption, distribution, metabolism, and elimination (ADME) processes of co-administered drugs^{[1][2]}.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kumar H, et al. Investigations on solute-solvent interactions of amino acids in aqueous solutions of sodium dihydrogen phosphate at different temperatures[J]. Monatshefte für Chemie-Chemical Monthly, 2014, 145: 1063-1082.
- [2]. Elder DP, et al. Pharmaceutical excipients - quality, regulatory and biopharmaceutical considerations. Eur J Pharm Sci. 2016 May 25;87:88-99.
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Caution: Product has not been fully validated for medical applications. For research use only.

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