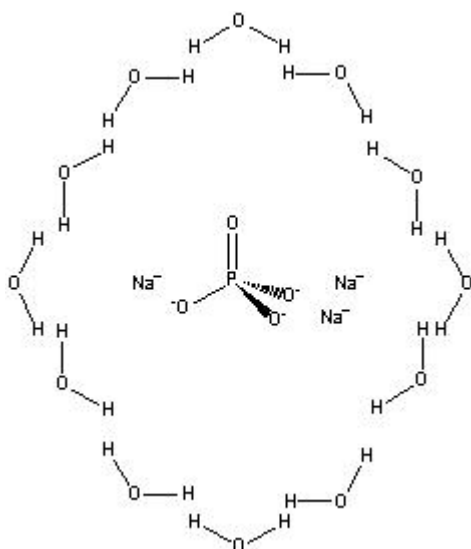


TECHNICAL INFORMATION

Catalog Number: 152062, 152578

Sodium Phosphate Tribasic, Dodecahydrate

Structure:



Molecular Formula: $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$

Molecular Weight: 380.1

CAS # : 10101-89-0

Synonyms: Trisodium phosphate; Trisodium orthophosphate; TSP

Physical Description: White crystalline powder

Solubility: Soluble in water, more soluble in boiling water; insoluble in ethanol. The pH of a 1% aqueous solution is 11.9.¹ Aqueous solutions react with alkaline earth and heavy metal salts to give phosphates of very low solubility.

Typical Uses:¹

- in photographic developers
- clarifying sugar
- removing boiler scale
- softening water
- manufacturing of paper
- laundering
- tanning leather
- in detergent mixture

- protein precipitant in the purification of nitrate reductase.⁴
- fractionation of nucleotides by inorganic salt co-precipitation²
- diluent in the luciferase assay of bacterial content.³

Availability:

Catalog Number	Description	Size
152062	Sodium Phosphate Tribasic, dodecahydrate	100 g 500 g 1 kg
152578	Sodium Phosphate Tribasic, dodecahydrate, ACS Reagent Grade	500 g 1 kg 3 kg

References:

- *Merck Index*, **12th Ed.**, No. 8808.
- Chan, P.S. and Lin, M.C., *Meths. Enzymol.*, **v. 38**, 38 (1974).
- Chappelle, E.W., et al., *Meths. Enzymol.*, **v. 57**, 65 (1978).
- McGregor, C.H., *Meths. Enzymol.*, **v. 53**, 347 (1978).