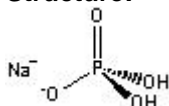


TECHNICAL INFORMATION

Catalog Number: 191442, 194740, 194850, 195500

Sodium Phosphate Monobasic

Structure:



| | Anhydrous | Monohydrate |
|---------------------------|----------------------------------|--|
| Molecular Formula: | NaH ₂ PO ₄ | NaH ₂ PO ₄ ·H ₂ O |
| Molecular Weight: | 120 | 137.99 |
| CAS # | 7558-80-7 | 10049-21-5 |

Synonyms: Sodium dihydrogen phosphate; Monosodium phosphate; Sodium biphosphate; Acid sodium phosphate; Monosodium orthophosphate; Primary sodium phosphate

Physical Description: White crystalline powder

Solubility: Freely soluble in water; insoluble in ethanol. pH of a 0.1 M aqueous solution is approximately 4.5.

pKa (for phosphoric acid) @ 25°C:

pKa₁ = 2.15
pKa₂ = 6.82
pKa₃ = 12.38

Availability:

| Catalog Number | Description | Size |
|----------------|--|--------------------------------|
| 194740 | Sodium Phosphate Monobasic, Anhydrous, cell culture reagent | 100 g 500 g 1 kg |
| 195500 | Sodium Phosphate Monobasic, Anhydrous | 100 g 500 g 1 kg 3 kg |
| 194850 | Sodium Phosphate Monobasic, Anhydrous, molecular biology reagent | 250 g 500 g 1 kg |
| 191442 | Sodium Phosphate Monobasic, Monohydrate, ACS Reagent Grade | 100 g 500 g 1 kg 5 kg |

Reference:

– Merck Index, 12th Ed., No 8806.