



# Product Specifications

**PRODUCT NAME:** Sodium Phosphate, Monobasic  
Monohydrate, ACS/USP/FCC

**CHEMICAL FORMULA:** NaH<sub>2</sub>PO<sub>4</sub> • H<sub>2</sub>O

**Product Code:** 532400-90000  
**F.W.:** 137.9900  
**CAS No:** 10049-21-5  
**Density:** 2.04

| ITEM   | SPECIFICATIONS           |
|--|--------------------------|
| Appearance   | White or colorless solid |
| ACS-Assay (NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O) | 98.0 - 102.0%            |
| ACS-pH of a 5% solution at 25°C                                | 4.1 - 4.5                |
| ACS-Insoluble Matter   | 0.01% max.               |
| ACS-Chloride (Cl)  | 5 ppm max.               |
| ACS-Sulfate (SO <sub>4</sub> )                                 | 0.003% max.              |
| ACS-Calcium (Ca)   | 0.005% max.              |
| ACS-Potassium (K)  | 0.01% max.               |
| Heavy metals (by ICP-OES)                                      | 0.001% max.              |
| ACS-Iron (Fe)  | 0.001% max.              |
| FCC-Identification: Phosphate                                  | To pass test             |
| FCC-Identification: Sodium                                     | To pass test             |
| FCC-Assay (NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O) | 98.0 - 103.0%            |
| FCC-Fluoride   | 0.005% max.              |
| FCC-Arsenic  | 3 mg/kg max.             |
| FCC-Lead (Pb)  | 4 mg/kg max.             |
| FCC-Loss on Drying   | 10.0 - 15.0%             |
| FCC-Insoluble Matter   | 0.2% max.                |
| USP-Identification: Phosphate                                  | To pass test             |
| USP-Identification: Sodium                                     | To pass test             |
| USP-Assay (NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O) | 98.0 - 103.0%            |
| USP-Insoluble Matter   | 0.2% max.                |
| USP-Chloride and Sulfate (Chloride)                            | 0.014% max.              |
| USP-Chloride and Sulfate (Sulfate)                             | 0.15% max.               |
| USP-Arsenic  | 8 ppm max.               |
| USP-Aluminum and Calcium related elements                      | To pass test             |
| USP-Water Determination  | 10.0 - 15.0%             |
| USP-pH   | 4.1 - 4.5                |
| Manufacture Date   | XX/XX/XXXX               |
| Expiration Date  | XX/XX/XXXX               |

**Remarks:**



COLUMBUS CHEMICAL INDUSTRIES

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|------|----------------|
|      |                |

The above are the specifications, ranges and limits set for this product.

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Eddy Santiago  
Quality Assurance Manager

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