



# 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)	0.01% 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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Density: 2.04

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

Eddy Santiago  
Quality Assurance Manager

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