

Product Specification

Phosphorus ICP Standard, 10,000 ppm P in H₂O

Lot Number: SAMPLE

Product Number: PP10KW

Manufacture Date: N/A

Expiration Date: N/A

This is a single element solution that was prepared volumetrically to contain the certified value reported. The uncertainty associated with the certified value is the sum of the estimated errors due to the purity of the raw material, the volumetric preparation of the solution, and transpiration of the solution through the container wall.

The final solution concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3139a. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ammonium Dihydrogen Phosphate	7722-76-1	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Phosphorus (P)	9950-10050 ppm	N/A	3139

Trace Elements by ICP or ICP - MS

I=Spectral Interference N=Not Tested

All values reported in mg/L (ppm)

Aluminum (Al)	N/A	Lead (Pb)	N/A	Tantalum (Ta)	N/A
Antimony (Sb)	N/A	Lithium (Li)	N/A	Tellurium (Te)	N/A
Arsenic (As)	N/A	Lutetium (Lu)	N/A	Terbium (Tb)	N/A
Barium (Ba)	N/A	Magnesium (Mg)	N/A	Thallium (Tl)	N/A
Beryllium (Be)	N/A	Manganese (Mn)	N/A	Thorium (Th)	N/A
Bismuth (Bi)	N/A	Mercury (Hg)	N/A	Thulium (Tm)	N/A
Boron (B)	N/A	Molybdenum (Mo)	N/A	Tin (Sn)	N/A
Cadmium (Cd)	N/A	Neodymium (Nd)	N/A	Titanium (Ti)	N/A
Calcium (Ca)	N/A	Nickel (Ni)	N/A	Tungsten (W)	N/A
Cerium (Ce)	N/A	Niobium (Nb)	N/A	Uranium (U)	N/A
Cesium (Cs)	N/A	Osmium (Os)	N/A	Vanadium (V)	N/A
Chromium (Cr)	N/A	Palladium (Pd)	N/A	Ytterbium (Yb)	N/A
Cobalt (Co)	N/A	Platinum (Pt)	N/A	Yttrium (Y)	N/A
Copper (Cu)	N/A	Potassium (K)	N/A	Zinc (Zn)	N/A
Dysprosium (Dy)	N/A	Praseodymium (Pr)	N/A	Zirconium (Zr)	N/A
Erbium (Er)	N/A	Rhenium (Re)	N/A		
Europium (Eu)	N/A	Rhodium (Rh)	N/A		
Gadolinium (Gd)	N/A	Rubidium (Rb)	N/A		
Gallium (Ga)	N/A	Ruthenium (Ru)	N/A		
Germanium (Ge)	N/A	Samarium (Sm)	N/A		
Gold (Au)	N/A	Scandium (Sc)	N/A		
Hafnium (Hf)	N/A	Selenium (Se)	N/A		
Holmium (Ho)	N/A	Silicon (Si)	N/A		
Indium (In)	N/A	Silver (Ag)	N/A		
Iridium (Ir)	N/A	Sodium (Na)	N/A		
Iron (Fe)	N/A	Strontium (Sr)	N/A		
Lanthanum (La)	N/A	Sulfur (S)	N/A		

Specification	Reference
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Phosphorus ICP Standard, 1 mL = 10 mg P (10,000 ppm P)
 NH₄H₂PO₄ in H₂O

EPA (200.7)

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions. Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product. Triple cleaned containers are used in the manufacture of this product.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
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PP10KW-100 100 mL natural LDPE 18 months

PP10KW-50 50 mL natural poly 18 months

PP10KW-500 500 mL natural poly 18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

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