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Product Specification

Hexavalent Chromium ICP Standard, 1000 ppm Cr⁶⁺ in 3% HNO₃

Lot Number: SAMPLE Product Number: PCR61KN

Manufacture Date: N/A
Expiration Date: N/A

The certified value for this product is confirmed in independent testing by a second qualified chemist. The uncertainty associated with the certified value is $\pm 0.5\%$ relative, which 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 3112a. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Ammonium Dichromate	7789-09-5	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Yellow liquid	N/A	
Assay (vs. Sodium Thiosulfate/Starch)	995-1005 ppm Cr	N/A	136

	Tra	ce Elements by	ICP or ICP - MS	I=Spectral In	nterference N=Not Tested
		All values reporte	d in mg/L (ppm)		
Aluminum (Al)	N/A	Lithium (Li)	N/A	Tantalum (Ta)	N/A
Antimony (Sb)	N/A	Lutetium (Lu)	N/A	Tellurium (Te)	N/A
Arsenic (As)	N/A	Magnesium (Mg)	N/A	Terbium (Tb)	N/A
Barium (Ba)	N/A	Manganese (Mn)	N/A	Thallium (Tl)	N/A
Beryllium (Be)	N/A	Mercury (Hg)	N/A	Thorium (Th)	N/A
Bismuth (Bi)	N/A	Molybdenum (Mo)	N/A	Thulium (Tm)	N/A
Boron (B)	N/A	Neodymium (Nd)	N/A	Tin (Sn)	N/A
Cadmium (Cd)	N/A	Nickel (Ni)	N/A	Titanium (Ti)	N/A
Calcium (Ca)	N/A	Niobium (Nb)	N/A	Tungsten (W)	N/A
Cerium (Ce)	N/A	Osmium (Os)	N/A	Uranium (U)	N/A
Cesium (Cs)	N/A	Palladium (Pd)	N/A	Vanadium (V)	N/A
Cobalt (Co)	N/A	Phosphorus (P)	N/A	Ytterbium (Yb)	N/A
Copper (Cu)	N/A	Platinum (Pt)	N/A	Yttrium (Y)	N/A
Dysprosium (Dy)	N/A	Potassium (K)	N/A	Zinc (Zn)	N/A
Erbium (Er)	N/A	Praseodymium (Pr)	N/A	Zirconium (Zr)	N/A
Europium (Eu)	N/A	Rhenium (Re)	N/A		
Gadolinium (Gd)	N/A	Rhodium (Rh)	N/A		
Gallium (Ga)	N/A	Rubidium (Rb)	N/A		
Germanium (Ge)	N/A	Ruthenium (Ru)	N/A		
Gold (Au)	N/A	Samarium (Sm)	N/A		
Hafnium (Hf)	N/A	Scandium (Sc)	N/A		
Holmium (Ho)	N/A	Selenium (Se)	N/A		
Indium (In)	N/A	Silicon (Si)	N/A		
Iridium (Ir)	N/A	Silver (Ag)	N/A		
Iron (Fe)	N/A	Sodium (Na)	N/A		
Lanthanum (La)	N/A	Strontium (Sr)	N/A		
Lead (Pb)	N/A	Sulfur (S)	N/A		

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Specification	Reference
Chromium(VI) ICP Standard, 1 mL = 1 mg Cr (1,000 ppm Cr)	EPA (200.7)
(NH4)2Cr2O7 in 3% HNO3	

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 inhouse Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per inhouse 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)
PCR61KN-100	100 mL natural LDPE	18 months
PCR61KN-500	500 mL natural poly	18 months

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



Katie Schnur Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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