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Product Specification

Chromium ICP Standard, 1000 ppm Cr in 3% HNO₃

Lot Number: SAMPLE Product Number: PCR1KN

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 3112. 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
Chromium Nitrate Nonahydrate	7789-02-8	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Dark blue liquid	N/A	
Chromium (Cr)	995-1005 ppm	N/A	3112

Chromium (Cr)		 995-1	005 ppr	n	N/A		3112
		ce Elements by			I=Spectral	Interference	N=Not Tested
	27/4	All values reporte		L (ppm)	a (a.)	27/1	
Aluminum (Al)	N/A	Lead (Pb)	N/A		Strontium (Sr)	N/A	
Antimony (Sb)	N/A	Lithium (Li)	N/A		Sulfur (S)	N/A	
Arsenic (As)	N/A	Lutetium (Lu)	N/A		Tantalum (Ta)	N/A	
Barium (Ba)	N/A	Magnesium (Mg)	N/A		Tellurium (Te)	N/A	
Beryllium (Be)	N/A	Manganese (Mn)	N/A		Terbium (Tb)	N/A	
Bismuth (Bi)	N/A	Mercury (Hg)	N/A		Thallium (Tl)	N/A	
Boron (B)	N/A	Molybdenum (Mo)	N/A		Thorium (Th)	N/A	
Cadmium (Cd)	N/A	Neodymium (Nd)	N/A		Thulium (Tm)	N/A	
Calcium (Ca)	N/A	Nickel (Ni)	N/A		Tin (Sn)	N/A	
Cerium (Ce)	N/A	Niobium (Nb)	N/A		Titanium (Ti)	N/A	
Cesium (Cs)	N/A	Osmium (Os)	N/A		Tungsten (W)	N/A	
Cobalt (Co)	N/A	Palladium (Pd)	N/A		Uranium (U)	N/A	
Copper (Cu)	N/A	Phosphorus (P)	N/A		Vanadium (V)	N/A	
Dysprosium (Dy)	N/A	Platinum (Pt)	N/A		Ytterbium (Yb)	N/A	
Erbium (Er)	N/A	Potassium (K)	N/A		Yttrium (Y)	N/A	
Europium (Eu)	N/A	Praseodymium (Pr)	N/A		Zinc (Zn)	N/A	
Gadolinium (Gd)	N/A	Rhenium (Re)	N/A		Zirconium (Zr)	N/A	
Gallium (Ga)	N/A	Rhodium (Rh)	N/A				
Germanium (Ge)	N/A	Rubidium (Rb)	N/A				
Gold (Au)	N/A	Ruthenium (Ru)	N/A				
Hafnium (Hf)	N/A	Samarium (Sm)	N/A				
Holmium (Ho)	N/A	Scandium (Sc)	N/A				
Indium (In)	N/A	Selenium (Se)	N/A				
Iridium (Ir)	N/A	Silicon (Si)	N/A				
Iron (Fe)	N/A	Silver (Ag)	N/A				
Lanthanum (La)	N/A	Sodium (Na)	N/A				

Version: 1.3 Lot Number: SAMPLE Product Number: PCR1KN Page 1 of 2

Specification	Reference
Chromium ICP, 1,000 ppm in HNO3	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)
PCR1KN-100	100 mL natural LDPE	18 months
PCR1KN-250	250 mL natural poly	18 months
PCR1KN-500	500 mL natural poly	18 months

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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Version: 1.3 Lot Number: SAMPLE Product Number: PCR1KN Page 2 of 2