

Product Specification

Magnesium ICP Standard, 10,000 ppm Mg in 5% HNO₃

Lot Number: SAMPLE

Product Number: PMG10KN

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 final solution concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3131. 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
Magnesium Oxide	1309-48-4	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Assay (vs. EDTA/Eriochrome Black T)	9950-10050 ppm Mg	N/A	915

Trace Elements by ICP or ICP - MS

I=Spectral Interference N=Not Tested

All values reported in mg/L (ppm)

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

Specification	Reference
---------------	-----------

Magnesium ICP Standard, 1 mL = 10 mg Mg (10,000 ppm Mg)

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)
PMG10KN-100	100 mL natural LDPE	18 months
PMG10KN-250	250 mL natural poly	18 months
PMG10KN-50	50 mL natural poly	18 months
PMG10KN-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.