

Product Specification

Nitric Acid, 50% (v/v), Trace Metals Grade

Lot Number: SAMPLE**Product Number:** R5351000**Manufacture Date:** N/A**Expiration Date:** N/A

This product is intended for use in ICP, AA, or ICP-MS analyses for sample preparation, standard dilution, and as a reference blank. This product may also be suitable for other applications.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals

Test	Specification	Result	NIST SRM#
Aluminum (Al)	Actual Value Reported	N/A	3101
Antimony (Sb)	Actual Value Reported	N/A	3102
Appearance	Colorless to light yellow liquid	N/A	
Arsenic (As)	Actual Value Reported	N/A	3103
Assay (vs. Sodium Hydroxide/Phenolphthalein)	49.7-50.3 % (v/v)	N/A	84
Barium (Ba)	Actual Value Reported	N/A	3104
Beryllium (Be)	Actual Value Reported	N/A	3105
Bismuth (Bi)	Actual Value Reported	N/A	3106
Boron (B)	Actual Value Reported	N/A	3107
Cadmium (Cd)	Actual Value Reported	N/A	3108
Calcium (Ca)	Actual Value Reported	N/A	3109
Cerium (Ce)	Actual Value Reported	N/A	3110
Cesium (Cs)	Actual Value Reported	N/A	3111
Chromium (Cr)	Actual Value Reported	N/A	3112
Cobalt (Co)	Actual Value Reported	N/A	3113
Copper (Cu)	Actual Value Reported	N/A	3114
Dysprosium (Dy)	Actual Value Reported	N/A	3115
Erbium (Er)	Actual Value Reported	N/A	3116
Europium (Eu)	Actual Value Reported	N/A	3117
Gadolinium (Gd)	Actual Value Reported	N/A	3118
Gallium (Ga)	Actual Value Reported	N/A	3119
Germanium (Ge)	Actual Value Reported	N/A	3120
Gold (Au)	Actual Value Reported	N/A	3121
Hafnium (Hf)	Actual Value Reported	N/A	3122
Holmium (Ho)	Actual Value Reported	N/A	3123
Indium (In)	Actual Value Reported	N/A	3124
Iridium (Ir)	Actual Value Reported	N/A	
Iron (Fe)	Actual Value Reported	N/A	3126
Lanthanum (La)	Actual Value Reported	N/A	3127
Lead (Pb)	Actual Value Reported	N/A	3128
Lithium (Li)	Actual Value Reported	N/A	3129

Lutetium (Lu)	Actual Value Reported	N/A	3130
Magnesium (Mg)	Actual Value Reported	N/A	3131
Manganese (Mn)	Actual Value Reported	N/A	3132
Mercury (Hg)	Actual Value Reported	N/A	3133
Molybdenum (Mo)	Actual Value Reported	N/A	3134
Neodymium (Nd)	Actual Value Reported	N/A	3135
Nickel (Ni)	Actual Value Reported	N/A	3136
Niobium (Nb)	Actual Value Reported	N/A	3137
Osmium (Os)	Actual Value Reported	N/A	
Palladium (Pd)	Actual Value Reported	N/A	3138
Phosphorus (P)	Actual Value Reported	N/A	3139
Platinum (Pt)	Actual Value Reported	N/A	3140
Potassium (K)	Actual Value Reported	N/A	3141
Praseodymium (Pr)	Actual Value Reported	N/A	3142
Rhenium (Re)	Actual Value Reported	N/A	3143
Rhodium (Rh)	Actual Value Reported	N/A	3144
Rubidium (Rb)	Actual Value Reported	N/A	3145
Ruthenium (Ru)	Actual Value Reported	N/A	
Samarium (Sm)	Actual Value Reported	N/A	3147
Scandium (Sc)	Actual Value Reported	N/A	3148
Selenium (Se)	Actual Value Reported	N/A	3149
Silicon (Si)	Actual Value Reported	N/A	3150
Silver (Ag)	Actual Value Reported	N/A	3151
Sodium (Na)	Actual Value Reported	N/A	3152
Strontium (Sr)	Actual Value Reported	N/A	3153
Sulfur (S)	Actual Value Reported	N/A	3154
Tantalum (Ta)	Actual Value Reported	N/A	3155
Tellurium (Te)	Actual Value Reported	N/A	3156
Terbium (Tb)	Actual Value Reported	N/A	3157
Thallium (Tl)	Actual Value Reported	N/A	3158
Thorium (Th)	Actual Value Reported	N/A	3159
Thulium (Tm)	Actual Value Reported	N/A	3160
Tin (Sn)	Actual Value Reported	N/A	3161
Titanium (Ti)	Actual Value Reported	N/A	3162
Tungsten (W)	Actual Value Reported	N/A	3163
Uranium (U)	Actual Value Reported	N/A	3164
Vanadium (V)	Actual Value Reported	N/A	3165
Ytterbium (Yb)	Actual Value Reported	N/A	3166
Yttrium (Y)	Actual Value Reported	N/A	3167
Zinc (Zn)	Actual Value Reported	N/A	3168
Zirconium (Zr)	Actual Value Reported	N/A	3169

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
R5351000-2.5D	2.5 L safety-coated glass	24 months

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

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