



Fisher Chemical

TRACEMETAL GRADE NITRIC ACID SPECIFICATION

<i>Fisher Chemical</i>	Maximum Specifications		
TraceMetal Grade	TraceMetal Grade Nitric Acid, A509		
Assay (HNO ₃ , w/w)	67 - 69%		
Colour (APHA)	10		
Analyte	Trace Impurities (in ppb)	Analyte	Trace Impurities (in ppb)
Aluminum (Al)	1	Neodymium (Nd)	0.1
Antimony (Sb)	0.5	Nickel (Ni)	0.5
Arsenic (As)	0.5	Niobium (Nb)	0.1
Barium (Ba)	0.1	Palladium (Pd)	0.5
Beryllium (Be)	0.1	Platinum (Pt)	0.5
Bismuth (Bi)	0.1	Potassium (K)	1
Boron (B)	1	Praseodymium (Pr)	0.1
Cadmium (Cd)	0.5	Rhenium (Re)	0.1
Calcium (Ca)	1	Rhodium (Rh)	0.5
Cerium (Ce)	0.1	Rubidium (Rb)	0.1
Cesium (Cs)	0.1	Ruthenium (Ru)	0.5
Chromium (Cr)	1	Samarium (Sm)	0.1
Cobalt (Co)	0.5	Scandium (Sc)	0.1
Copper (Cu)	0.5	Selenium (Se)	1
Dysprosium (Dy)	0.1	Silver (Ag)	0.1
Erbium (Er)	0.1	Sodium (Na)	1
Europium (Eu)	0.1	Strontium (Sr)	0.1
Gadolinium (Gd)	0.1	Tantalum (Ta)	Information Only
Gallium (Ga)	0.1	Tellurium (Te)	0.1
Germanium (Ge)	0.1	Terbium (Tb)	0.1
Gold (Au)	0.1	Thallium (Tl)	0.1
Hafnium (Hf)	0.1	Thorium (Th)	0.1
Holmium (Ho)	0.1	Thulium (Tm)	0.1
Indium (In)	0.1	Tin (Sn)	0.5
Iron (Fe)	1	Titanium (Ti)	0.5
Lanthanum (La)	0.1	Tungsten (W)	0.1
Lead (Pb)	0.1	Uranium (U)	0.1
Lithium (Li)	0.1	Vanadium (V)	0.5
Lutetium (Lu)	0.1	Ytterbium (Yb)	0.1
Magnesium (Mg)	1	Yttrium (Y)	0.1
Manganese (Mn)	0.1	Zinc (Zn)	0.5
Mercury (Hg)	0.1	Zirconium (Zr)	0.1
Molybdenum (Mo)	0.1		
Analyte	Trace Impurities (in ppm)	Analyte	Trace Impurities (in ppm)
Chloride (Cl)	0.2	Total Sulphur (S)	0.3
Total Phosphorus (P)	0.01		

HNO₃ (67 - 69%): Properties
Molar Mass: 63.01g/mol

Density: 1.41 g/ml

Molarity: 16 moles/litre

Normality: 16 moles/litre



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