

Nitric Acid 69%, Ultrapure
“For Trace Metal Analysis”

HNO₃ FW. 63.01
CAS-No. 7697-37-2
Code **UP1137**

Density 1 L = 1.41 Kg.
Melting Point - 41 °C
Boiling Point 119.9 °C

Specifications

Assay (by acidimetry)	69.0 – 70.0%
Color (APHA)	10 max.
Chloride (Cl)	0.00002% max.
Total Phosphorus (P)	0.000001% max.
Total Sulfur (S)	0.00003% max.
Aluminum (Al)	1 ppb max.
Antimony (Sb)	0.5 ppb max.
Arsenic (As)	0.5 ppb max.
Barium (Ba)	0.1 ppb max.
Beryllium (Be)	0.1 ppb max.
Bismuth (Bi)	0.1 ppb max.
Boron (B)	1 ppb max.
Cadmium (Cd)	0.5 ppb max.
Calcium (Ca)	1 ppb max.
Cerium (Ce)	0.1 ppb max.
Cesium (Cs)	0.1 ppb max.
Chromium (Cr)	1 ppb max.
Cobalt (Co)	0.5 ppb max.
Copper (Cu)	0.5 ppb max.
Dysprosium (Dy)	0.1 ppb max.
Erbium (Er)	0.1 ppb max.
Europium (Eu)	0.1 ppb max.
Gadolinium (Gd)	0.1 ppb max.
Gallium (Ga)	0.1 ppb max.
Germanium (Ge)	0.1 ppb max.
Gold (Au)	0.1 ppb max.
Hafnium (Hf)	0.1 ppb max.
Holmium (Ho)	0.1 ppb max.
Indium (In)	0.1 ppb max.
Iron (Fe)	1 ppb max.
Lanthanum (La)	0.1 ppb max.
Lead (Pb)	0.1 ppb max.
Lithium (Li)	0.1 ppb max.
Lutetium (Lu)	0.1 ppb max.
Magnesium (Mg)	1 ppb max.
Manganese (Mn)	0.1 ppb max.
Mercury (Hg)	0.1 ppb max.

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Molybdenum (Mo)	0.1	ppb max.
Neodymium (Nd)	0.1	ppb max.
Nickel (Ni)	0.5	ppb max.
Niobium (Nb)	0.1	ppb max.
Palladium (Pd)	0.5	ppb max.
Platinum (Pt)	0.5	ppb max.
Potassium (K)	1	ppb max.
Praseodymium (Pr)	0.1	ppb max.
Rhenium (Re)	0.1	ppb max.
Rhodium (Rh)	0.5	ppb max.
Rubidium (Rb)	0.1	ppb max.
Ruthenium (Ru)	0.5	ppb max.
Samarium (Sm)	0.1	ppb max.
Scandium (Sc)	0.1	ppb max.
Selenium (Se)	1	ppb max.
Silver (Ag)	0.1	ppb max.
Sodium (Na)	1	ppb max.
Strontium (Sr)	0.1	ppb max.
Tellur (Te)	0.1	ppb max.
Terbium (Tb)	0.1	ppb max.
Thallium (Tl)	0.1	ppb max.
Thorium (Th)	0.1	ppb max.
Thulium (Tm)	0.1	ppb max.
Tin (Sn)	0.5	ppb max.
Titanium (Ti)	0.5	ppb max.
Tungsten (W)	0.1	ppb max.
Urenium (U)	0.1	ppb max.
Vanadium (V)	0.5	ppb max.
Ytterbium (Yb)	0.1	ppb max.
Yttrium (Y)	0.1	ppb max.
Zinc (Zn)	0.5	ppb max.
Zirconium (Zr)	0.1	ppb max.