

Technical Datasheet

Article no.: 838

Nitric acid superpure for trace analysis (67.0 – 69.0 % (w/w))

HNO₃

For laboratory use.

Boiling point: 122 °C
CAS no.: 7697-37-2
Density: 1.40 g/ml
Melting point: -32 °C
Molar mass: 63.01 g/mol

Parameter	Value
Aluminium (Al)	max. 1 ppb
Antimony (Sb)	max. 0.5 ppb
Appearance	Colourless to yellowish liquid
Arsenic (As)	max. 0.5 ppb
Barium (Ba)	max. 0.1 ppb
Beryllium (Be)	max. 0.1 ppb
Bismuth (Bi)	max. 0.1 ppb
Boron (B)	max. 1 ppb
Cadmium (Cd)	max. 0.5 ppb
Caesium (Cs)	max. 0.1 ppb
Calcium (Ca)	max. 1 ppb
Cerium (Ce)	max. 0.1 ppb
Chloride (Cl)	max. 0.2 ppm
Chromium (Cr)	max. 1 ppb
Cobalt (Co)	max. 0.5 ppb
Colour (APHA)	max. 10

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Copper (Cu)	max. 0.5 ppb
Dysprosium (Dy)	max. 0.1 ppb
Erbium (Er)	max. 0.1 ppb
Europium (Eu)	max. 0.1 ppb
Gadolinium (Gd)	max. 0.1 ppb
Gallium (Ga)	max. 0.1 ppb
Germanium (Ge)	max. 0.1 ppb
Gold (Au)	max. 0.1 ppb
Hafnium (Hf)	max. 0.1 ppb
Holmium (Ho)	max. 0.1 ppb
Indium (In)	max. 0.1 ppb
Iron (Fe)	max. 1 ppb
Lanthanum (La)	max. 0.1 ppb
Lead (Pb)	max. 0.1 ppb
Lithium (Li)	max. 0.1 ppb
Lutetium (Lu)	max. 0.1 ppb
Magnesium (Mg)	max. 1 ppb
Manganese (Mn)	max. 0.1 ppb
Mercury (Hg)	max. 0.1 ppb
Molybdenum (Mo)	max. 0.1 ppb
Neodymium (Nd)	max. 0.1 ppb
Nickel (Ni)	max. 0.5 ppb
Niobium (Nb)	max. 0.1 ppb

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Palladium (Pd)	max. 0.5 ppb
Platinum (Pt)	max. 0.5 ppb
Potassium (K)	max. 1 ppb
Praseodymium (Pr)	max. 0.1 ppb
Rhenium (Re)	max. 0.1 ppb
Rhodium (Rh)	max. 0.5 ppb
Rubidium (Rb)	max. 0.1 ppb
Ruthenium (Ru)	max. 0.5 ppb
Samarium (Sm)	max. 0.1 ppb
Scandium (Sc)	max. 0.1 ppb
Selenium (Se)	max. 1 ppb
Silver (Ag)	max. 0.1 ppb
Sodium (Na)	max. 1 ppb
Strontium (Sr)	max. 0.1 ppb
Tellurium (Te)	max. 0.1 ppb
Terbium (Tb)	max. 0.1 ppb
Thallium (Tl)	max. 0.1 ppb
Thorium (Th)	max. 0.1 ppb
Thulium (Tm)	max. 0.1 ppb
Tin (Sn)	max. 0.5 ppb
Titanium (Ti)	max. 0.5 ppb
Total phosphorus (P)	max. 0.01 ppm
Total sulphur (S)	max. 0.3 ppm

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Tungsten (W)	max. 0.1 ppb
Uranium (U)	max. 0.1 ppb
Vanadium (V)	max. 0.5 ppb
Ytterbium (Yb)	max. 0.1 ppb
Yttrium (Y)	max. 0.1 ppb
Zinc (Zn)	max. 0.5 ppb
Zirconium (Zr)	max. 0.1 ppb

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