Product Specification

Material Number: 83879
Material Description: Nitric acid 67-69%
Grade: Ultrapure NORMATOM for trace metal analysis
CAS Number: 7697-37-2
Molecular Mass: 63.01
Molecular Formula: HNO_3
Date Specification Set: January 2008

(All batches of this product after this date are tested to this specification. In the unlikely event that the specification is changed a new certificate will be issued)

Characteristics	Specifications
Assay (HNO_3, w/w)	67 - 69%
Ag (Silver)	max. 10 ppt
Al (Aluminum)	max. 20 ppt
As (Arsenic)	max. 20 ppt
Au (Gold)	max. 20 ppt
B (Boron)	max. 10 ppt
Ba (Barium)	max. 10 ppt
Be (Beryllium)	max. 10 ppt
Bi (Bismuth)	max. 10 ppt
Ca (Calcium)	max. 10 ppt
Cd (Cadmium)	max. 10 ppt
Ce (Cerium)	max. 10 ppt
Co (Cobalt)	max. 10 ppt
Cr (Chromium)	max. 10 ppt
Cs (Cesium)	max. 10 ppt
Cu (Copper)	max. 10 ppt
Dy (Dysprosium)	max. 1 ppt
Er (Erbium)	max. 1 ppt
Eu (Europium)	max. 1 ppt
Fe (Iron)	max. 10 ppt
Ga (Gallium)	max. 10 ppt
Gd (Gadolinium)	max. 1 ppt
Ge (Germanium)	max. 10 ppt
Hf (Hafnium)	max. 10 ppt
Hg (Mercury)	max. 50 ppt
Ho (Holmium)	max. 1 ppt
In (Indium)	max. 1 ppt
K (Potassium)	max. 10 ppt
La (Lanthanum)	max. 1 ppt
Li (Lithium)	max. 10 ppt
Lu (Lutetium)	max. 1 ppt
Mg (Magnesium)	max. 10 ppt
Mn (Manganese)	max. 10 ppt
Mo (Molybdenum)	max. 10 ppt
Na (Sodium)	max. 10 ppt
Nb (Niobium)	max. 1 ppt
Nd (Neodymium)	max. 1 ppt
Ni (Nickel)	max. 20 ppt
Pb (Lead)	max. 10 ppt

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Characteristics	Specifications
Pd (Palladium)	max. 20 ppt
Pr (Praseodymium)	max. 1 ppt
Pt (Platinum)	max. 20 ppt
Rb (Rubidium)	max. 10 ppt
Re (Rhenium)	max. 10 ppt
Rh (Rhodium)	max. 10 ppt
Ru (Ruthenium)	max. 20 ppt
Sb (Antimony)	max. 10 ppt
Sc (Scandium)	max. 10 ppt
Se (Selenium)	Information Only
Sm (Samarium)	max. 1 ppt
Sn (Tin)	max. 20 ppt
Sr (Strontium)	max. 10 ppt
Ta (Tantalum)	Information Only
Tb (Terbium)	max. 1 ppt
Te (Tellurium)	max. 1 ppt
Th (Thorium)	max. 1 ppt
Ti (Titanium)	max. 10 ppt
Tl (Thallium)	max. 10 ppt
Tm (Thulium)	max. 1 ppt
U (Uranium)	max. 1 ppt
V (Vanadium)	max. 10 ppt
W (Tungsten)	max. 10 ppt
Y (Yttrium)	max. 1 ppt
Yb (Ytterbium)	max. 1 ppt
Zn (Zinc)	max. 10 ppt
Zr (Zirconium)	max. 10 ppt

Signed on behalf of VWR:

Greg Henson
QA & RA Manager