



**ChemPure* Brand
Chemicals**

Product Code: CP-M1778S
Lot #: 2016102716

Certificate Of Analysis

...Pure Quality

Chemical Name: **Nitric Acid, 70%**
ACS/Trace Metal

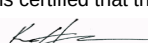
Chemical Formula: HNO₃

F.W.: 63.0100
CAS: 7697-37-2
Density: 1.4200 kg/L

Analytical Results		
Item	Specifications	Analysis
Chloride (Cl)	0.05 ppm max.	<0.04 ppm
Chromium (Cr)	10 ppb max.	<0.05 ppb
Cobalt (Co)	1 ppb max.	<0.05 ppb
Color (APHA)	10 max.	0
Copper (Cu)	1 ppb max.	<0.05 ppb
Gallium (Ga)	20 ppb max.	<0.02 ppb
Germanium (Ge)	4 ppb max.	<0.07 ppb
Gold (Au)	4 ppb max.	<0.2 ppb
Heavy Metals (as Pb)	100 ppb max.	<2 ppb
Aluminum (Al)	30 ppb max.	<0.3 ppb
Iron (Fe)	20 ppb max.	0.4 ppb
Lead (Pb)	0.5 ppb max.	<0.05 ppb
Lithium (Li)	1 ppb max.	<0.05 ppb
Magnesium (Mg)	7 ppb max.	0.1 ppb
Antimony (Sb)	5 ppb max.	<0.05 ppb
Manganese (Mn)	1 ppb max.	<0.05 ppb
Appearance	Clear, colorless liquid	Passes Test
Mercury (Hg)	1 ppb max.	<1 ppb
Molybdenum (Mo)	5 ppb max.	<0.05 ppb
Nickel (Ni)	2 ppb max.	<0.1 ppb
Niobium (Nb)	1 ppb max.	<0.02 ppb
Arsenic (As)	5 ppb max.	<0.1 ppb
Phosphate (PO ₄)	0.1 ppm max.	<0.025 ppm
Potassium (K)	5 ppb max.	<0.6 ppb
Residue After Ignition	5 ppm max.	0.4 ppm
Silicon (Si)	20 ppb max.	<3 ppb
Silver (Ag)	1 ppb max.	<0.05 ppb
Sodium (Na)	200 ppb max.	<1 ppb

Remarks:

It is certified that the above copy is a true copy of the actual lot analysis.


Kevin Hansen
Quality Assurance Manager

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, nothing herein shall constitute any express or implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose.



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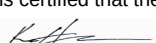
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F.W.: 63.0100
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Analytical Results		
Item	Specifications	Analysis
Specific Gravity (60°F/60°F)	1.416 - 1.420	1.419
Strontium (Sr)	1 ppb max.	<0.02 ppb
Sulfate (SO ₄)	0.4 ppm max.	<0.025 ppm
Tantalum (Ta)	2 ppb max.	<0.02 ppb
Thallium (Tl)	5 ppb max.	<0.02 ppb
Tin (Sn)	5 ppb max.	<0.05 ppb
Titanium (Ti)	300 ppb max.	<0.3 ppb
Vanadium (V)	1 ppb max.	<0.02 ppb
Zinc (Zn)	5 ppb max.	<2 ppb
Zirconium (Zr)	1 ppb max.	<0.02 ppb
Assay (HNO ₃)	69.0 - 70.0%	69.3%
Barium (Ba)	1 ppb max.	<0.05 ppb
Beryllium (Be)	1 ppb max.	<0.06 ppb
Bismuth (Bi)	1 ppb max.	<0.02 ppb
Boron (B)	4 ppb max.	0.4 ppb
Cadmium (Cd)	1 ppb max.	<0.05 ppb
Calcium (Ca)	100 ppb max.	<2 ppb

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