

# Product Specification

## Antimony ICP Standard, 1000 ppm Sb in H<sub>2</sub>O/Tartaric Acid/tr HNO<sub>3</sub>

**Lot Number:** SAMPLE

**Product Number:** PSB1KW

**Manufacture Date:** N/A

**Expiration Date:** N/A

This is a single element solution that was prepared volumetrically to contain the certified value reported. The uncertainty associated with the certified value is the sum of the estimated errors due to the purity of the raw material, the volumetric preparation of the solution, and transpiration of the solution through the container wall.

The final solution concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3102. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	
Tartaric Acid	87-69-4	
Nitric Acid	7697-37-2	
Hydrochloric Acid	7647-01-0	
Antimony	7440-36-0	

Test	Specification	Result	NIST SRM#
Antimony (Sb)	995-1005 ppm	N/A	3102
Appearance	Colorless liquid	N/A	

### Trace Elements by ICP or ICP - MS

I=Spectral Interference N=Not Tested

All values reported in mg/L (ppm)

Aluminum (Al)	N/A	Iron (Fe)	N/A	Selenium (Se)	N/A
Arsenic (As)	N/A	Lanthanum (La)	N/A	Silicon (Si)	N/A
Barium (Ba)	N/A	Lead (Pb)	N/A	Silver (Ag)	N/A
Beryllium (Be)	N/A	Lithium (Li)	N/A	Sodium (Na)	N/A
Bismuth (Bi)	N/A	Lutetium (Lu)	N/A	Strontium (Sr)	N/A
Boron (B)	N/A	Magnesium (Mg)	N/A	Sulfur (S)	N/A
Cadmium (Cd)	N/A	Manganese (Mn)	N/A	Tantalum (Ta)	N/A
Calcium (Ca)	N/A	Mercury (Hg)	N/A	Tellurium (Te)	N/A
Cerium (Ce)	N/A	Molybdenum (Mo)	N/A	Terbium (Tb)	N/A
Cesium (Cs)	N/A	Neodymium (Nd)	N/A	Thallium (Tl)	N/A
Chromium (Cr)	N/A	Nickel (Ni)	N/A	Thorium (Th)	N/A
Cobalt (Co)	N/A	Niobium (Nb)	N/A	Thulium (Tm)	N/A
Copper (Cu)	N/A	Osmium (Os)	N/A	Tin (Sn)	N/A
Dysprosium (Dy)	N/A	Palladium (Pd)	N/A	Titanium (Ti)	N/A
Erbium (Er)	N/A	Phosphorus (P)	N/A	Tungsten (W)	N/A
Europium (Eu)	N/A	Platinum (Pt)	N/A	Uranium (U)	N/A
Gadolinium (Gd)	N/A	Potassium (K)	N/A	Vanadium (V)	N/A
Gallium (Ga)	N/A	Praseodymium (Pr)	N/A	Ytterbium (Yb)	N/A
Germanium (Ge)	N/A	Rhenium (Re)	N/A	Yttrium (Y)	N/A
Gold (Au)	N/A	Rhodium (Rh)	N/A	Zinc (Zn)	N/A
Hafnium (Hf)	N/A	Rubidium (Rb)	N/A	Zirconium (Zr)	N/A
Holmium (Ho)	N/A	Ruthenium (Ru)	N/A		
Indium (In)	N/A	Samarium (Sm)	N/A		
Iridium (Ir)	N/A	Scandium (Sc)	N/A		

Specification	Reference
---------------	-----------

Antimony ICP Standard, 1000 ppm	EPA (200.7)
---------------------------------	-------------

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions. Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product. Triple cleaned containers are used in the manufacture of this product.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
PSB1KW-100	100 mL natural LDPE	18 months
PSB1KW-500	500 mL natural poly	18 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.