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## **Product Specification**

Silicon ICP Standard, 1000 ppm Si in 3% HNO<sub>3</sub>

Lot Number: SAMPLE Product Number: PSI1KN

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 3150. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Hydrofluoric Acid	7664-39-3	Trace Metals
Silicon	7440-21-3	High Purity

Test	Specification	$\mathbf{Result}$	NIST SRM#
Appearance	Colorless liquid	N/A	
Silicon (Si)	995-1005 ppm	N/A	3150

## Trace Elements by ICP or ICP - MS

I=Spectral Interference N=Not Tested

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		All values reporte	ed in mg/L (ppm)	
Aluminum (Al)	N/A	Iron (Fe)	N/A	Silver (Ag)
Antimony (Sb)	N/A	Lanthanum (La)	N/A	Sodium (Na)
Arsenic (As)	N/A	Lead (Pb)	N/A	Strontium (Sr)
Barium (Ba)	N/A	Lithium (Li)	N/A	Sulfur (S)
Beryllium (Be)	N/A	Lutetium (Lu)	N/A	Tantalum (Ta)
Bismuth (Bi)	N/A	Magnesium (Mg)	N/A	Tellurium (Te)
Boron (B)	N/A	Manganese (Mn)	N/A	Terbium (Tb)
Cadmium (Cd)	N/A	Mercury (Hg)	N/A	Thallium (Tl)
Calcium (Ca)	N/A	Molybdenum (Mo)	N/A	Thorium (Th)
Cerium (Ce)	N/A	Neodymium (Nd)	N/A	Thulium (Tm)
Cesium (Cs)	N/A	Nickel (Ni)	N/A	Tin (Sn)
Chromium (Cr)	N/A	Niobium (Nb)	N/A	Titanium (Ti)
Cobalt (Co)	N/A	Osmium (Os)	N/A	Tungsten (W)
Copper (Cu)	N/A	Palladium (Pd)	N/A	Uranium (U)
Dysprosium (Dy)	N/A	Phosphorus (P)	N/A	Vanadium (V)
Erbium (Er)	N/A	Platinum (Pt)	N/A	Ytterbium (Yb)
Europium (Eu)	N/A	Potassium (K)	N/A	Yttrium (Y)
Gadolinium (Gd)	N/A	Praseodymium (Pr	) N/A	Zinc (Zn)
Gallium (Ga)	N/A	Rhenium (Re)	N/A	Zirconium (Zr)
Germanium (Ge)	N/A	Rhodium (Rh)	N/A	

Rubidium (Rb)

Ruthenium (Ru)

Samarium (Sm)

Scandium (Sc)

Selenium (Se)

Gold (Au)

Hafnium (Hf)

Holmium (Ho)

Indium (In)

Iridium (Ir)

N/A

N/A

N/A

N/A

N/A

Silver (Ag)	N/A	
Sodium (Na)	N/A	
Strontium (Sr)	N/A	
Sulfur (S)	N/A	
Tantalum (Ta)	N/A	
Tellurium (Te)	N/A	
Terbium (Tb)	N/A	
Thallium (Tl)	N/A	
Thorium (Th)	N/A	
Thulium (Tm)	N/A	
Tin (Sn)	N/A	
Titanium (Ti)	N/A	
Tungsten (W)	N/A	
Uranium (U)	N/A	
Vanadium (V)	N/A	
Ytterbium (Yb)	N/A	
Yttrium (Y)	N/A	
Zinc (Zn)	N/A	
Zirconium (Zr)	N/A	
Zirodiidii (Zi)	11/11	

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N/A

N/A

N/A

N/A

N/A

Specification		Reference							
	TOD O					Q: (1 000	ar) ar r and 11310	EDA (200.7)	

Silicon ICP Standard, 1 mL = 1 mg Si (1,000 ppm Si) Si in 3% HNO EPA (200.7) / trace HF

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)
PSI1KN-100	100 mL natural LDPE	18 months
PSI1KN-500	500 mL natural poly	18 months

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

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

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