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Product Specification

Scandium ICP-MS Standard, 1000 ppm Sc in 3% HNO₃

Product Number: MSSC1KN Lot Number: SAMPLE

Manufacture Date: N/A Expiration Date: N/A

The certified value for this product is confirmed in independent testing by a second qualified chemist. The uncertainty associated with the certified value is $\pm 0.3\%$ relative, which 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 3148. 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	
Scandium Oxide	12060-08-1	High Purity	
Togt	Specification	Pogult	NIST SRM#

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Scandium (Sc)	997-1003 ppm	N/A	3148

Scandium (Sc)			997-1	003 ppm	N/A		3148
		Tra	ce Elements by All values reporte	ICP or ICP - MS	I=Spectral	Interference	N=Not Tested
Aluminum (Al)	N/A		Lanthanum (La)	N/A	Strontium (Sr)	N/A	
Antimony (Sb)	N/A		Lead (Pb)	N/A	Sulfur (S)	N/A	
Arsenic (As)	N/A		Lithium (Li)	N/A	Tantalum (Ta)	N/A	
Barium (Ba)	N/A		Lutetium (Lu)	N/A	Tellurium (Te)	N/A	
Beryllium (Be)	N/A		Magnesium (Mg)	N/A	Terbium (Tb)	N/A	
Bismuth (Bi)	N/A		Manganese (Mn)	N/A	Thallium (Tl)	N/A	
Boron (B)	N/A		Mercury (Hg)	N/A	Thorium (Th)	N/A	
Cadmium (Cd)	N/A		Molybdenum (Mo)	N/A	Thulium (Tm)	N/A	
Calcium (Ca)	N/A		Neodymium (Nd)	N/A	Tin (Sn)	N/A	
Cerium (Ce)	N/A		Nickel (Ni)	N/A	Titanium (Ti)	N/A	
Cesium (Cs)	N/A		Niobium (Nb)	N/A	Tungsten (W)	N/A	
Chromium (Cr)	N/A		Osmium (Os)	N/A	Uranium (U)	N/A	
Cobalt (Co)	N/A		Palladium (Pd)	N/A	Vanadium (V)	N/A	
Copper (Cu)	N/A		Phosphorus (P)	N/A	Ytterbium (Yb)	N/A	
Dysprosium (Dy)	N/A		Platinum (Pt)	N/A	Yttrium (Y)	N/A	
Erbium (Er)	N/A		Potassium (K)	N/A	Zinc (Zn)	N/A	
Europium (Eu)	N/A		Praseodymium (Pr)	N/A	Zirconium (Zr)	N/A	
Gadolinium (Gd)	N/A		Rhenium (Re)	N/A			
Gallium (Ga)	N/A		Rhodium (Rh)	N/A			
Germanium (Ge)	N/A		Rubidium (Rb)	N/A			
Gold (Au)	N/A		Ruthenium (Ru)	N/A			
Hafnium (Hf)	N/A		Samarium (Sm)	N/A			
Holmium (Ho)	N/A		Selenium (Se)	N/A			
Indium (In)	N/A		Silicon (Si)	N/A			
Iridium (Ir)	N/A		Silver (Ag)	N/A			
Iron (Fe)	N/A		Sodium (Na)	N/A			

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Specification	Reference
	TD ((000 0)

Scandium ICP-MS, 1000 ppm in HNO3 EPA (200.8)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
MSSC1KN-100	100 mL natural LDPE	18 months

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

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