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Product Specification

Titanium ICP-MS Standard, 1000 ppm Ti in H₂O/tr HF

Lot Number: SAMPLE Product Number: MSTI1KW

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 3162. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ammonium Hexafluorotitanate	16962-40-6	High Purity
Hydrofluoric Acid	7664-39-3	Trace Metals

Test	Specification	\mathbf{Result}	NIST SRM#
Appearance	Colorless liquid	N/A	
Titanium (Ti)	997-1003 ppm	N/A	3162

Titanium (Ti)			997-1	003 ppm	N/A		3162
			ee Elements by	ICP or ICP - MS	I=Spectral	Interference	N=Not Tested
Aluminum (Al)	N/A]	Lanthanum (La)	N/A	Sodium (Na)	N/A	
Antimony (Sb)	N/A]	Lead (Pb)	N/A	Strontium (Sr)	N/A	
Arsenic (As)	N/A]	Lithium (Li)	N/A	Sulfur (S)	N/A	
Barium (Ba)	N/A]	Lutetium (Lu)	N/A	Tantalum (Ta)	N/A	
Beryllium (Be)	N/A	I	Magnesium (Mg)	N/A	Tellurium (Te)	N/A	
Bismuth (Bi)	N/A	I	Manganese (Mn)	N/A	Terbium (Tb)	N/A	
Boron (B)	N/A	I	Mercury (Hg)	N/A	Thallium (Tl)	N/A	
Cadmium (Cd)	N/A	I	Molybdenum (Mo)	N/A	Thorium (Th)	N/A	
Calcium (Ca)	N/A	I	Neodymium (Nd)	N/A	Thulium (Tm)	N/A	
Cerium (Ce)	N/A	I	Nickel (Ni)	N/A	Tin (Sn)	N/A	
Cesium (Cs)	N/A	I	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	S	Samarium (Sm)	N/A			
Holmium (Ho)	N/A	S	Scandium (Sc)	N/A			
Indium (In)	N/A	S	Selenium (Se)	N/A			
Iridium (Ir)	N/A	S	Silicon (Si)	N/A			
Iron (Fe)	N/A	Š	Silver (Ag)	N/A			

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Specification	Reference
	FR. (200.0)

Titanium Standard, 1000 ppm 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)	
MSTI1KW-100	100 mL natural LDPE	18 months	

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

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