

Product Specification

Molybdenum ICP-MS Standard, 1000 ppm Mo in 3% NH₄OH

Lot Number: SAMPLE

Product Number: MSMO1KW

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 3134. All trace level elements were determined by ICP or ICP-MS.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ammonium Hydroxide	1336-21-6	Trace Metals
Ammonium Molybdate	13106-76-8	High Purity

Test	Specification	Result	NIST SRM#
Appearance	Colorless to slightly greenish-yellow liquid	N/A	
Molybdenum (Mo)	995-1005 ppm	N/A	3134

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

Specification	Reference	
Molybdenum 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)
MSMO1KW-100	100 mL natural LDPE	18 months
Recommended Storage: 15°C - 30°C (59°F - 86°F)		

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