

# Product Specification

## Molybdenum Standard, 30 ppm Mo

**Lot Number:** SAMPLE**Product Number:** R5196300**Manufacture Date:** N/A**Expiration Date:** N/A

| Name              | CAS#      | Grade           |
|-------------------|-----------|-----------------|
| Water             | 7732-18-5 | ACS/ASTM/USP/EP |
| Nitric Acid       | 7697-37-2 | Trace Metals    |
| Molybdenum        | 7439-98-7 | High Purity     |
| Hydrofluoric Acid | 7664-39-3 | Trace Metals    |

| Test            | Specification         | Result | NIST SRM# |
|-----------------|-----------------------|--------|-----------|
| Aluminum (Al)   | Actual Value Reported | N/A    | 3101      |
| Antimony (Sb)   | Actual Value Reported | N/A    | 3102      |
| Appearance      | Colorless liquid      | N/A    |           |
| Arsenic (As)    | Actual Value Reported | N/A    | 3103      |
| Barium (Ba)     | Actual Value Reported | N/A    | 3104      |
| Beryllium (Be)  | Actual Value Reported | N/A    | 3105      |
| Bismuth (Bi)    | Actual Value Reported | N/A    | 3106      |
| Boron (B)       | Actual Value Reported | N/A    | 3107      |
| Cadmium (Cd)    | Actual Value Reported | N/A    | 3108      |
| Calcium (Ca)    | Actual Value Reported | N/A    | 3109      |
| Cerium (Ce)     | Actual Value Reported | N/A    | 3110      |
| Cesium (Cs)     | Actual Value Reported | N/A    | 3111      |
| Chromium (Cr)   | Actual Value Reported | N/A    | 3112      |
| Cobalt (Co)     | Actual Value Reported | N/A    | 3113      |
| Copper (Cu)     | Actual Value Reported | N/A    | 3114      |
| Dysprosium (Dy) | Actual Value Reported | N/A    | 3115      |
| Erbium (Er)     | Actual Value Reported | N/A    | 3116      |
| Europium (Eu)   | Actual Value Reported | N/A    | 3117      |
| Gadolinium (Gd) | Actual Value Reported | N/A    | 3118      |
| Gallium (Ga)    | Actual Value Reported | N/A    | 3119      |
| Germanium (Ge)  | Actual Value Reported | N/A    | 3120      |
| Gold (Au)       | Actual Value Reported | N/A    | 3121      |
| Hafnium (Hf)    | Actual Value Reported | N/A    | 3122      |
| Holmium (Ho)    | Actual Value Reported | N/A    | 3123      |
| Indium (In)     | Actual Value Reported | N/A    | 3124      |
| Iridium (Ir)    | Actual Value Reported | N/A    |           |
| Iron (Fe)       | Actual Value Reported | N/A    | 3126      |
| Lanthanum (La)  | Actual Value Reported | N/A    | 3127      |
| Lead (Pb)       | Actual Value Reported | N/A    | 3128      |
| Lithium (Li)    | Actual Value Reported | N/A    | 3129      |

|                   |                       |     |      |
|-------------------|-----------------------|-----|------|
| Lutetium (Lu)     | Actual Value Reported | N/A | 3130 |
| Magnesium (Mg)    | Actual Value Reported | N/A | 3131 |
| Manganese (Mn)    | Actual Value Reported | N/A | 3132 |
| Mercury (Hg)      | Actual Value Reported | N/A | 3133 |
| Molybdenum (Mo)   | 29.8-30.2 ppm         | N/A | 3134 |
| Neodymium (Nd)    | Actual Value Reported | N/A | 3135 |
| Nickel (Ni)       | Actual Value Reported | N/A | 3136 |
| Niobium (Nb)      | Actual Value Reported | N/A | 3137 |
| Osmium (Os)       | Actual Value Reported | N/A |      |
| Palladium (Pd)    | Actual Value Reported | N/A | 3138 |
| Phosphorus (P)    | Actual Value Reported | N/A | 3139 |
| Platinum (Pt)     | Actual Value Reported | N/A | 3140 |
| Potassium (K)     | Actual Value Reported | N/A | 3141 |
| Praseodymium (Pr) | Actual Value Reported | N/A | 3142 |
| Rhenium (Re)      | Actual Value Reported | N/A | 3143 |
| Rhodium (Rh)      | Actual Value Reported | N/A | 3144 |
| Rubidium (Rb)     | Actual Value Reported | N/A | 3145 |
| Ruthenium (Ru)    | Actual Value Reported | N/A |      |
| Samarium (Sm)     | Actual Value Reported | N/A | 3147 |
| Scandium (Sc)     | Actual Value Reported | N/A | 3148 |
| Selenium (Se)     | Actual Value Reported | N/A | 3149 |
| Silicon (Si)      | Actual Value Reported | N/A | 3150 |
| Silver (Ag)       | Actual Value Reported | N/A | 3151 |
| Sodium (Na)       | Actual Value Reported | N/A | 3152 |
| Strontium (Sr)    | Actual Value Reported | N/A | 3153 |
| Sulfur (S)        | Actual Value Reported | N/A | 3154 |
| Tantalum (Ta)     | Actual Value Reported | N/A | 3155 |
| Tellurium (Te)    | Actual Value Reported | N/A | 3156 |
| Terbium (Tb)      | Actual Value Reported | N/A | 3157 |
| Thallium (Tl)     | Actual Value Reported | N/A | 3158 |
| Thorium (Th)      | Actual Value Reported | N/A | 3159 |
| Thulium (Tm)      | Actual Value Reported | N/A | 3160 |
| Tin (Sn)          | Actual Value Reported | N/A | 3161 |
| Titanium (Ti)     | Actual Value Reported | N/A | 3162 |
| Tungsten (W)      | Actual Value Reported | N/A | 3163 |
| Uranium (U)       | Actual Value Reported | N/A | 3164 |
| Vanadium (V)      | Actual Value Reported | N/A | 3165 |
| Ytterbium (Yb)    | Actual Value Reported | N/A | 3166 |
| Yttrium (Y)       | Actual Value Reported | N/A | 3167 |
| Zinc (Zn)         | Actual Value Reported | N/A | 3168 |
| Zirconium (Zr)    | Actual Value Reported | N/A | 3169 |

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) |
|---------------|---------------------|---------------------------------|
| R5196300-500N | 500 mL natural poly | 24 months                       |

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

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