



Metallo-Organic Standards

ISO 9001:2015 Registered • ISO/IEC 17025:2017 Accredited • ISO 17034:2016 Accredited

Metallo-Organic Standards

The standards listed are for the determination of metals in oils and lubricants. These products include metals in a light mineral oil (20 cSt) matrix. Other oil and organic solvent matrices are available upon request.

Metallo-Organic Single-Component Standards				
Component	Concentration	Matrix	Weight	Part #
Aluminum	1,000 µg/mL	Mineral Oil	50 g	ALOMS-50
Aluminum	1,000 µg/mL	Mineral Oil	100 g	ALOMS-100
Antimony	1,000 µg/mL	Mineral Oil	50 g	SBOMS-50
Antimony	1,000 µg/mL	Mineral Oil	100 g	SBOMS-100
Arsenic	50 µg/g	Mineral Oil	50 g	ASOMS-50
Arsenic	50 µg/g	Mineral Oil	100 g	ASOMS-100
Barium	1,000 µg/mL	Mineral Oil	50 g	BAOMS-50
Barium	1,000 µg/mL	Mineral Oil	100 g	BAOMS-100
Beryllium	1,000 µg/mL	Mineral Oil	100 g	BEOMS-100
Boron	1,000 µg/mL	Mineral Oil	50 g	BBOMS-50
Boron	1,000 µg/mL	Mineral Oil	100 g	BBOMS-100
Cadmium	1,000 µg/mL	Mineral Oil	50 g	CDOMS-50
Cadmium	1,000 µg/mL	Mineral Oil	100 g	CDOMS-100
Calcium	1,000 µg/mL	Mineral Oil	50 g	CAOMS-50
Calcium	1,000 µg/mL	Mineral Oil	100 g	CAOMS-100
Chromium	1,000 µg/mL	Mineral Oil	50 g	CROMS-50
Chromium	1,000 µg/mL	Mineral Oil	100 g	CROMS-100
Cobalt	1,000 µg/mL	Mineral Oil	100 g	COOMS-100
Copper	1,000 µg/mL	Mineral Oil	50 g	CUOMS-50
Copper	1,000 µg/mL	Mineral Oil	100 g	CUOMS-100
Indium	1,000 µg/mL	Mineral Oil	50 g	INOMS-50
Indium	1,000 µg/mL	Mineral Oil	100 g	INOMS-100
Iron	1,000 µg/mL	Mineral Oil	100 g	FEOMS-100
Lead	1,000 µg/mL	Mineral Oil	100 g	PBOMS-100
Lithium	1,000 µg/mL	Mineral Oil	50 g	LIOMS-50
Lithium	1,000 µg/mL	Mineral Oil	100 g	LIOMS-100
Magnesium	1,000 µg/mL	Mineral Oil	50 g	MGOMS-50
Magnesium	1,000 µg/mL	Mineral Oil	100 g	MGOMS-100
Manganese	1,000 µg/mL	Mineral Oil	50 g	MNOMS-50
Manganese	1,000 µg/mL	Mineral Oil	100 g	MNOMS-100
Mercury	50 µg/g	Mineral Oil	50 g	HGOMS-50
Mercury	50 µg/g	Mineral Oil	100 g	HGOMS-100
Molybdenum	1,000 µg/mL	Mineral Oil	100 g	MOOMS-100
Nickel	1,000 µg/mL	Mineral Oil	50 g	NIOMS-50
Nickel	1,000 µg/mL	Mineral Oil	100 g	NIOMS-100
Phosphorus	1,000 µg/mL	Mineral Oil	50 g	PPOMS-50
Phosphorus	1,000 µg/mL	Mineral Oil	100 g	PPOMS-100
Potassium	1,000 µg/mL	Mineral Oil	50 g	KKOMS-50
Potassium	1,000 µg/mL	Mineral Oil	100 g	KKOMS-100
Selenium	50 µg/g	Mineral Oil	50 g	SEOMS-50
Selenium	50 µg/g	Mineral Oil	100 g	SEOMS-100
Silicon	1,000 µg/mL	Mineral Oil	50 g	SIOMS-50
Silicon	1,000 µg/mL	Mineral Oil	100 g	SIOMS-100

Metallo-Organic Single-Component Standards (cont'd)

Component	Concentration	Matrix	Weight	Part #
Silver	1,000 µg/mL	Mineral Oil	50 g	AGOMS-50
Silver	1,000 µg/mL	Mineral Oil	100 g	AGOMS-100
Sodium	1,000 µg/mL	Mineral Oil	50 g	NAOMS-50
Sodium	1,000 µg/mL	Mineral Oil	100 g	NAOMS-100
Sulfur	1,000 µg/mL	Mineral Oil	50 g	SSOMS-50
Sulfur	1,000 µg/mL	Mineral Oil	100 g	SSOMS-100
Tin	1,000 µg/mL	Mineral Oil	50 g	SNOMS-50
Tin	1,000 µg/mL	Mineral Oil	100 g	SNOMS-100
Titanium	1,000 µg/mL	Mineral Oil	50 g	TIOMS-50
Titanium	1,000 µg/mL	Mineral Oil	100 g	TIOMS-100
Tungsten	1,000 µg/mL	Mineral Oil	100 g	WWOMS-100
Vanadium	1,000 µg/mL	Mineral Oil	50 g	VVOMS-50
Vanadium	1,000 µg/mL	Mineral Oil	100 g	VVOMS-100
Yttrium	1,000 µg/mL	Mineral Oil	50 g	YYOMS-50
Yttrium	1,000 µg/mL	Mineral Oil	100 g	YYOMS-100
Zinc	1,000 µg/mL	Mineral Oil	50 g	ZNOMS-50
Zinc	1,000 µg/mL	Mineral Oil	100 g	ZNOMS-100
Trace Metals	—	Soybean Oil	100 g	CRM-TMSO-100
Base Mineral Oil	—	Light Mineral Oil	500 mL	BMOMS-500

Metallo-Organic Multi-Component Standards

Components	Concentration	Matrix	Weight	Part #
Aluminum, Chromium, Copper, Iron, Lead, Magnesium, Nickel, Silicon, Silver, Sodium, Tin, Titanium	200 µg/g	Mineral Oil	50g	OMS-12-50
			100g	OMS-12-100
Aluminum, Barium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, Silver, Sodium, Tin, Titanium, Vanadium, Zinc	200 µg/g	Mineral Oil	50g	OMS-21-50
			100g	OMS-21-100
			200g	OMS-21-200

Metal Extraction Customs

We now offer custom standards of metals extracted into various organic solvents. These standards are verified via ICP analysis and come with NIST SRM-traceable Certificates of Analysis.

To obtain a quotation for a metal extracted custom standard, you can use our inorganic quote form available at highpuritystandards.com or contact us at 843.767.7900 or toll free at 866.767.4771 or via email to info@highpuritystandards.com.



Ion Chromatography and Organic Acids Quote Form

Contact Person: _____
Company Name: _____ Customer Number: _____
Email: _____
Telephone Number: _____ Fax Number: _____
Address Line 1: _____ Address Line 2: _____
City: _____ State: _____
Zip/Postal Code: _____ Country: _____
Mix Name: _____ Intended Use: _____

Standards

Certificate of Analysis Information:

Manufacturer Information: _____

ISO 17034

Chromatogram

Gravimetric Preparation

Two different lot numbers

Different Source Material

Single/Multiple Standard

Cations	Concentration (Indicate Units)	Anions	Concentration (Indicate Units)	Other	Concentration (Include CAS Number if Organic Component)	Component Specific Instructions (e.g. NH ₄ ⁺ as NH ₃)
Ammonium		Acetate				
Calcium		Bromate				
Diethanolamine		Bromide				
Dimethylamine		Butyrate				
Lithium		Chlorate				
Magnesium		Chloride				
Morpholine		Chlorite				
Potassium		Cyanide				
Sodium		Fluoride				
		Formate				
		Glycolate				
		Iodide				
		Lactate				
		Nitrate				
		Nitrite				
		Oxalate				
		Perchlorate				
		Phosphate				
		Propionate				
		Sulfate				
		Thiocyanate				
		Thiosulfate				
		Valerate				

Special Instructions

The custom standards will be prepared within the confines of a quality system that is ISO 9001:2015 registered and ISO/IEC 17025:2005 and ISO 17034:2016 accredited. Please indicate if the ISO 17034:2016 symbol is required for the Certificate of Analysis. Eighteen megaohm deionized water is assumed to be the matrix, note if otherwise. Also, if this is one of several standards that is to constitute a curve set, please indicate so. Please provide all special instructions on a separate piece of paper.

