



Liquid Organo-Metallic Oil Calibration Standards

DCG has available concentrated and stabilized liquid organo-metallic solutions. These solutions may be diluted, typically with kerosene or light mineral oil, by the end user to form calibration curves or DCG can prepare custom calibration curves manufactured to your specifications. DCG's liquid organo-metallic standards are gravimetrically prepared and have been certified against N.I.S.T. SRM's when available. DCG's liquid organo-metallic standards do not contain sulfur or phosphorous unless otherwise noted. Part numbers beginning with LOM are available in the following sizes, 100 grams, 50 grams and 25 grams. Part numbers beginning with ORGM are available in 50 ml. and 100 ml. bottles. Custom standards and calibration curves are available upon request.

DCG's liquid organo-metallic standards may be used for a variety of analytical applications including, but not limited to, the following; for the analysis of additive elements in lubricating oils; iron, nickel and vanadium in residual oil and wear metals in oils for X-Ray fluorescence spectroscopy (XRF). Additionally, DCG's liquid organo-metallic standards may be used to prepare single element or multi-element standards for plasma emission (ICP and DCP), rotating disk (rotrode) or atomic absorption spectroscopy (AA).

*Let DCG prepare your custom calibration curve

Element	Part Number	Concentration wt/wt %	Stabilizer required when diluted
Aluminum	DCGORGM-A10.1	0.100%	N
Aluminum	DCGORGM-A10.5	0.500%	N
Aluminum	DCGLOMSA1 3.0	3.000%	Y
Antimony	DCGORGM-Sb 0.1	0.100%	N
Antimony	DCGORGM-Sb 0.5	0.500%	N
Antimony	DCGLOMSSb 2.0	2.000%	Y
Arsenic	DCGORGM-As 0.1	0.100%	N
Arsenic	DCGORGM-As 0.5	0.500%	N



Barium	DCGORGMBa 0.1	0.100%	N
Barium	DCGORGMBa 0.5	0.500%	N
Barium	DCGLOMSBa 12.5	12.500%	Y
Beryllium	DCGORGMBe 0.1	0.100%	Y
Beryllium	DCGORGMBe 0.5	0.500%	Y
Cadmium	DCGORGMCd 0.1	0.100%	N
Cadmium	DCGORGMCd 0.5	0.500%	N
Cadmium	DCGLOMSCd 10.0	10.000%	Y
Calcium	DCGORGMCa 0.1	0.100%	N
Calcium	DCGORGMCa 0-5	0.500%	N
Calcium	DCGLOMSCa 5.0	5.000%	Y
Cerium	DCGORGMCe 0.1	10.000%	N
Cerium	DCGORGMCe 0.5	0.500%	N
Cerium	DCGLOMSCe 5.0	5.000%	Y
Chromium	DCGORGMCr 0.1	0.100%	N
Chromium	DCGORGMCr 0.5	0.500%	N
Chromium	DCGLOMSCr 3.5	3.500%	Y
Cobalt	DCGORGMCo 0.1	0.100%	N
Cobalt	DCGORGMCo 0.5	50.000%	N
Cobalt	DCGLOMSCo 7.5	7.500%	Y
Copper	DCGORGMCu 0.1	0.100%	N
Copper	DCGORGMCu 0.5	0.500%	N
Copper	DCGLOMSCu 6.0	6.000%	N
Gallium	DCGORGMGa 0.1	0.100%	N
Gallium	DCGORGMGa 0.5	0.500%	N
Gold	DCGORGMAu 0.1	0.100%	Y
Iron	DCGORGMe 0.1	0.100%	N
Iron	DCGORGMe 0.5	50.000%	N
Iron	DCGLOMSFe 4.0	4.000%	Y
Lead	DCGORGMPb 0.1	0.100%	N
Lead	DCGORGMPb 0.5	0.500%	N
Lead	DCGLOMSPb 20.0	20.000%	Y



Lithium	DCGORGMLi 0.1	0.100%	N
Lithium	DCGORGMLi 0.5	0.500%	N
Lithium	DCGLOMSLi 1.5	1.500%	Y
Magnesium	DCGORGMMg 0.1	0.100%	N
Magnesium	DCGORGMMg 0.5	0.500%	N
Magnesium	DCGLOMSMg 3.0	3.000%	Y
Manganese	DCGORGMMn 0.1	0.100%	N
Manganese	DCGORGMMn 0.5	0.500%	N
Manganese	DCGLOMSMn 6.0	6.000%	Y
Mercury	DCGORGMHg 0.1	0.100%	N
Mercury	DCGORGMHg 0.5	0.500%	N
Molybdenum	DCGORGMMo 0.1	0.100%	N
Molybdenum	DCGORGMMo 0.5	0.500%	N
Molybdenum	DCGLOMSMo 6.0	6.000%	Y
Nickel	DCGORGMNi 0.1	0.100%	N
Nickel	DCGORGMNi 0.5	0.500%	N
Nickel	DCGLOMSNi 5.0	5.000%	Y
Phosphorous	DCGORGMPo 0.1	0.100%	N
Phosphorous	DCGORGMPo 0.5	0.500%	N
Phosphorous	DCGLOMSP 5.0	5.000%	N
Potassium	DCGORGMP 0.1	0.100%	N
Potassium	DCGLOMSK 7.5	7.500%	Y
Praseodymium	DCGORGMPr 3.0	3.000%	Y
Selenium	DCGORGMSe 0.1	0.100%	N
Selenium	DCGORGMSe 0.5	0.500%	N
Selenium	DCGLOMSSe 3.5	3.500%	Y
Silicon	DCGORGMSi 0.1	0.100%	N
Silicon	DCGORGMSi 0.5	0.500%	N
Silicon	DCGLOMSSi 7.5	7.500%	N
Silver	DCGORGMAg 0.1	0.100%	N
Silver	DCGORGMAg 0.5	0.500%	N
Sodium	DCGORGMSNa 0.1	0.100%	N
Sodium	DCGORGMSNa 0.5	0.500%	N
Sodium	DCGLOMSNa 2.5	2.500%	Y
Strontium	DCGORGMSr 0.1	0.100%	N
Strontium	DCGORGMSr 0.5	0.500%	N
Strontium	DCGLOMSSr 10.0	10.000%	Y



Thallium	DCGORGMT1 0.1	0.100%	N
Thallium	DCGORGMT1 0.5	0.500%	N
Thallium	DCGLOMST1 5.0	5.000%	Y
Tin	DCGORGMSn 0.1	0.100%	N
Tin	DCGORGMSn 0.5	0.500%	N
Tin	DCGLOMSSn 7.5	7.500%	Y
Titanium	DCGORGMTi 0.1	0.100%	N
Titanium	DCGORGMTi 0.5	0.500%	N
Titanium	DCGLOMSTi 5.0	5.000%	Y
Vanadium	DCGORGMV 0.1	0.100%	N
Vanadium	DCGORGMV 0.5	0.500%	N
Vanadium	DCGLOMSV 4.0	4.000%	Y
Yttrium	DCGORGMV 0.1	0.100%	N
Yttrium	DCGORGMV 0.5	0.500%	N
Yttrium	DCGLOMSY 2.5	4.000%	Y
Zinc	DCGORGMZn 0.1	0.100%	N
Zinc	DCGORGZn 0.5	0.500%	N
Zinc	DCGLOMSZn 6.0	6.000%	Y
Zirconium	DCGORGMZr 0.1	0.100%	N
Zirconium	DCGORGMZr 0.5	0.500%	N
Zirconium	DCGLOMSZr 5.0	5.000%	N