

Inorganic Standards

**3 Year
Shelf Life on Most
ICP & AA Single Element
Standards**

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AccuTrace Documentation includes:

Tracable to NIST SRM by wet chemical assay and/or ICP, on final solution lot for single element standards, and on solution concentrates for multielements standards.



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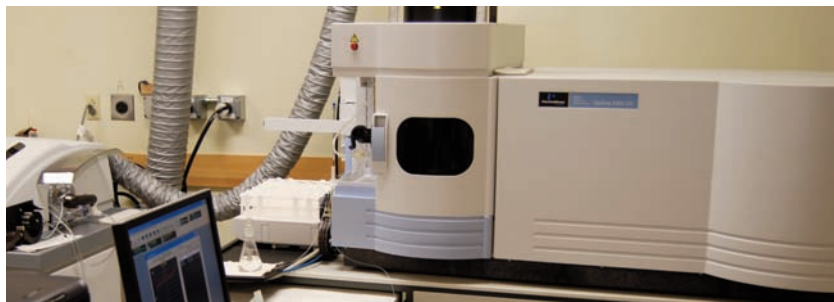
Quality Control

AccuStandard's Inorganic Department combines the best of state of the art instrumentation with classical stoichiometric analysis, to bring you the most reliable Standards available.

Why choose AccuStandard for your Inorganic Analytical Needs?

- Standards are our only product.
 - Thousands of Inorganic Standards - the widest selection available.
 - No across the board price increase in 20 years
 - 3-year Shelf Life on single ICP, AA and ICP/MS Standards
 - Custom Formulations
 - Small Batch Sizes for Fresher Lots
 - Technical Service from people with Real World Laboratory Experience
 - 24/7 Online Access to MSDSs, COAs, Literature and Product Support
 - Accredited to ISO 17025 and certified to ISO 9001:2000
- | | |
|---------------------------------|---------------------------------------|
| ☐ ICP | ☐ IC |
| ☐ ICP/MS | ☐ Wet Chemical |
| ☐ AA | ☐ Wear Metals |

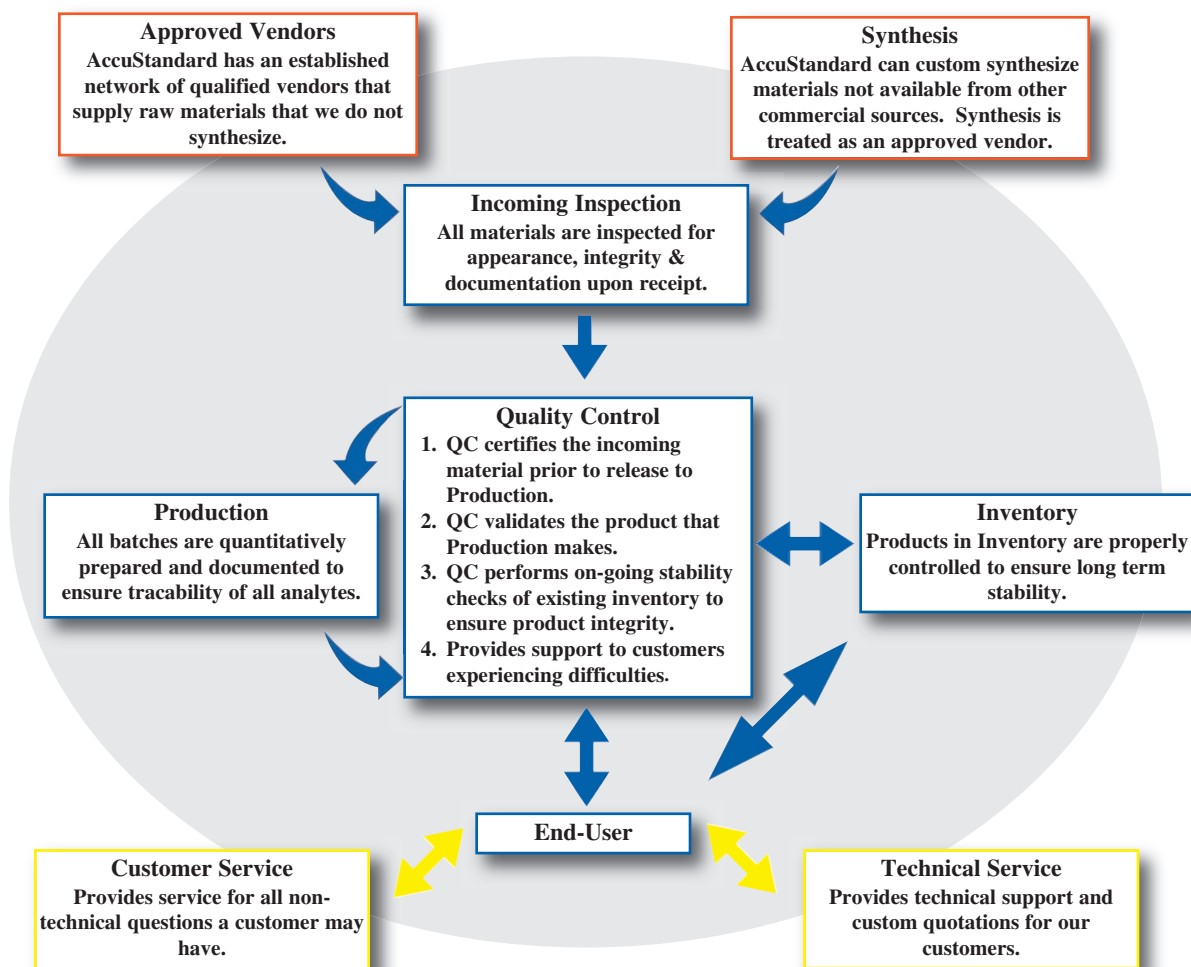
State of the Art Instrumentation



Perkin Elmer Optima 5300 Dual View ICP/OES



Perkin Elmer Elan 9000 ICP/MS



AccuTrace™



Density included for easy conversion to weight/weight applications.

Most Single element standards have 3 Year expiration period.

Impurity Scan for 68 elements in final solution.

Uncertainty reported for statistical confidence.

Concentration verified by two independent methods for added insurance.

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.
CERTIFICATE OF ANALYSIS
AccuTrace™ Reference Standard
Item Number: ICP-15N-10X-5

Element: Copper
Concentration: 10 000 µg/mL
Matrix: 2% HNO₃

Density: 1.038 g/mL
Lot Number: B7075150
Expiration Date: Aug / 2012

Elements in µg/mL															
Ag	nd<0.02	Cr	nd<0.02	Ho	nd<0.02	Nd	N/A	S	N/A	Ti	nd<0.02				
Al	nd<0.02	Cs	N/A	In	N/A	Ni	nd<0.02	Sb	nd<0.2	Tl	nd<0.2				
As	nd<0.2	Cu	*	Ir	nd<0.2	Os	N/A	Se	nd<0.02	Tm	nd<0.02				
Au	nd<0.02	Dy	nd<0.02	K	N/A	P	N/A	Se	nd<0.2	U	N/A				
B	nd<0.2	Er	nd<0.02	La	nd<0.02	Pb	N/A	Si	0.34	V	nd<0.02				
Ba	nd<0.02	Eu	nd<0.02	Li	N/A	Pd	N/A	Sm	nd<0.2	W	N/A				
Be	nd<0.02	Fe	N/A	Lu	nd<0.02	Pr	nd<0.2	Sn	N/A	Y	nd<0.02				
Bi	N/A	Ga	nd<0.02	Mg	nd<0.02	Pt	nd<0.2	Sr	nd<0.02	Yb	nd<0.02				
Cd	0.02	Gd	nd<0.02	Mn	nd<0.02	Rb	N/A	Ta	N/A	Zn	nd<0.02				
Ce	nd<0.02	Ge	nd<0.2	Mo	nd<0.02	Re	N/A	Tb	nd<0.02	Zr	nd<0.02				
Ce	N/A	Hf	N/A	Na	nd<0.02	Rh	nd<0.2	Te	nd<0.2						
Co	nd<0.02	Hg	nd<0.2	Nb	nd<0.2	Ru	nd<0.02	Th	N/A						

The total maximum uncertainty on the certified value(s) is ±2%. See reverse side of certificate for details.
This solution was assayed titrimetrically, using EDTA which was standardized against NIST SRM #928 (lead nitrate.)
The concentration of the final solution was verified by ICP against NIST SRM# 3114
RESULTS: This solution standard was certified for accuracy of major elemental constituency via methodology traceable to primary or well characterized secondary standards. All trace level elements and impurities were determined via plasma emission spectroscopy on the concentrate.
This standard was prepared gravimetrically to contain the elemental concentrations shown above. Balances, used in the preparation, are calibrated regularly using NIST-traceable weights. All glassware used in preparation is Class A.
We use the highest purity raw materials available, including high purity acids, ASTM type 118 megohm deionized water, and typically 99.999%+ starting materials to minimize impurity levels in the final solution. All bottles are acid leached and then triple rinsed with deionized water prior to use.
Use good laboratory procedure when diluting this product. Shake bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.
We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is kept tightly capped and stored under normal laboratory conditions.

AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

L. Snyder
Lyn Snyder
Inorganic QC Supervisor

Directly traceable to NIST SRM's.

Highest purity starting materials & matrices used.

Standards prepared under our ISO 9001 & ISO 17025 Quality System.

Signature approval indicating product integrity to specifications.

ICP

Single Element



- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials and Acids
- 18 Megohm de-ionized Water
- Concentration verified by Wet Chemical and Instrumental Analysis
- Packaged in specially prepared Acid leached bottles
- Actual Lot Analysis provided on label and C of A

NoHaz Option available with Most ICP & AA Single Element Standards

Haz Fees

SAVINGS:

- No Hazardous Shipping Fees
- Lower Shipping Costs (less weight)
- Yields More – 500 mL from 20 mL concentrate

CONVENIENCE & ASSURANCE:

- Includes empty pre-washed, pre-labeled HDPE bottle (250 mL for 10,000 µg/mL; 500 mL for 25,000 µg/mL)
- Certificate of Analysis with every product



Haz Fees

Single Element ICPs require a Hazardous Shipping Fee, except the "NoHaz" products in the right columns, and except elements marked with an asterisk *

Single Element ICP

				NoHaz 20 mL Size (No Hazardous shipping charge)		
Element	Starting Material Matrix	Unit	1000 µg/mL Cat. No.	10,000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Aluminum		50 mL	-----	--	ICP-01N-10X-20ML	ICP-01N-25X-20ML
	Al(NO ₃) ₃ • 9H ₂ O	100 mL	ICP-01N-1	ICP-01N-10X-1		
	2-5% Nitric acid	500 mL	ICP-01N-5	ICP-01N-10X-5		
Antimony		50 mL	-----	--	ICP-02N-10X-20ML	----- --
	Sb Dilute HNO ₃ tr	100 mL	ICP-02N-1	ICP-02N-10X-1		
	Tartaric acid	500 mL	ICP-02N-5	ICP-02N-10X-5		
Arsenic		50 mL	-----	--	ICP-03N-10X-20ML	ICP-03N-25X-20ML
	As	100 mL	ICP-03N-1	ICP-03N-10X-1		
	2-5% Nitric acid	500 mL	ICP-03N-5	ICP-03N-10X-5		
Barium		50 mL	-----	--	ICP-04N-10X-20ML	ICP-04N-25X-20ML
	Ba(NO ₃) ₂	100 mL	ICP-04N-1	ICP-04N-10X-1		
	2-5% Nitric acid	500 mL	ICP-04N-5	ICP-04N-10X-5		
Beryllium		50 mL	-----	--	ICP-05N-10X-20ML	----- --
	BeO(C ₂ H ₃ O ₂) ₆	100 mL	ICP-05N-1	ICP-05N-10X-1		
	2-5% Nitric acid	500 mL	ICP-05N-5	ICP-05N-10X-5		
Bismuth		50 mL	-----	--	ICP-06N-10X-20ML	ICP-06N-25X-20ML
	Bi	100 mL	ICP-06N-1	ICP-06N-10X-1		
	2-10% Nitric acid	500 mL	ICP-06N-5	ICP-06N-10X-5		

Single Element ICP



ICP

Single Element

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- Formulated from Ultra High Purity Starting Materials and Acids
- 18 Megohm de-ionized Water
- Concentration verified by Wet Chemical and Instrumental Analysis
- Packaged in specially prepared Acid leached bottles
- Actual Lot Analysis provided on label and C of A
- 36 Month Shelf Life

Haz Fees

Single Element ICPs require a Hazardous Shipping Fee, except the "NoHaz™" products in the right columns, and except elements marked with an asterisk *

Single Element ICP

NoHaz 20 mL Size (No Hazardous shipping charge)

Element Starting Material Matrix		1000 µg/mL Cat. No.	10,000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.	
Unit						
Boron *	50 mL	-----	--	ICP-07W-10X-20ML	-----	--
H ₃ BO ₃	100 mL	ICP-07W-1	ICP-07W-10X-1			
Water tr. NH ₄ OH	500 mL	ICP-07W-5	ICP-07W-10X-5			
Cadmium	50 mL	-----	--	ICP-08N-10X-20ML	ICP-08N-25X-20ML	
Cd	100 mL	ICP-08N-1	ICP-08N-10X-1			
2-5% Nitric acid	500 mL	ICP-08N-5	ICP-08N-10X-5			
Calcium	50 mL	-----	--	ICP-09N-10X-20ML	ICP-09N-25X-20ML	
CaCO ₃	100 mL	ICP-09N-1	ICP-09N-10X-1			
2-5% Nitric acid	500 mL	ICP-09N-5	ICP-09N-10X-5			
Cerium	50 mL	-----	--	ICP-11N-10X-20ML	ICP-11N-25X-20ML	
Ce(NO ₃) ₃	100 mL	ICP-11N-1	ICP-11N-10X-1			
2-5% Nitric acid	500 mL	ICP-11N-5	ICP-11N-10X-5			
Cesium	50 mL	-----	--	ICP-12N-10X-20ML	ICP-12N-25X-20ML	
CsNO ₃	100 mL	ICP-12N-1	ICP-12N-10X-1			
2-5% Nitric acid	500 mL	ICP-12N-5	ICP-12N-10X-5			
Chromium reduced to (+3) state	50 mL	-----	--	ICP-13N-10X-20ML	ICP-13N-25X-20ML	
(NH ₄) ₂ Cr ₂ O ₇	100 mL	ICP-13N-1	ICP-13N-10X-1			
2-5% Nitric acid	500 mL	ICP-13N-5	ICP-13N-10X-5			
Cobalt	50 mL	-----	--	ICP-14N-10X-20ML	ICP-14N-25X-20ML	
Co	100 mL	ICP-14N-1	ICP-14N-10X-1			
2-5% Nitric acid	500 mL	ICP-14N-5	ICP-14N-10X-5			
Copper	50 mL	-----	--	ICP-15N-10X-20ML	ICP-15N-25X-20ML	
Cu	100 mL	ICP-15N-1	ICP-15N-10X-1			
2-5% Nitric acid	500 mL	ICP-15N-5	ICP-15N-10X-5			
Dysprosium	50 mL	-----	--	ICP-16N-10X-20ML	ICP-16N-25X-20ML	
Dy ₂ O ₃	100 mL	ICP-16N-1	ICP-16N-10X-1			
2-5% Nitric acid	500 mL	ICP-16N-5	ICP-16N-10X-5			
Erbium	50 mL	-----	--	ICP-17N-10X-20ML	ICP-17N-25X-20ML	
Er ₂ O ₃	100 mL	ICP-17N-1	ICP-17N-10X-1			
2-5% Nitric acid	500 mL	ICP-17N-5	ICP-17N-10X-5			
Europium	50 mL	-----	--	ICP-18N-10X-20ML	ICP-18N-25X-20ML	
Eu ₂ O ₃	100 mL	ICP-18N-1	ICP-18N-10X-1			
2-5% Nitric acid	500 mL	ICP-18N-5	ICP-18N-10X-5			
Gadolinium	50 mL	-----	--	ICP-19N-10X-20ML	ICP-19N-25X-20ML	
Gd ₂ O ₃	100 mL	ICP-19N-1	ICP-19N-10X-1			
2-5% Nitric acid	500 mL	ICP-19N-5	ICP-19N-10X-5			
Gallium	50 mL	-----	--	ICP-20N-10X-20ML	-----	--
Ga	100 mL	ICP-20N-1	ICP-20N-10X-1			
2-5% Nitric acid	500 mL	ICP-20N-5	ICP-20N-10X-5			
Germanium *	50 mL	-----	--	ICP-21W-10X-20ML	-----	--
(NH ₄) ₂ GeF ₆	100 mL	ICP-21W-1	ICP-21W-10X-1			
Water tr. HF	500 mL	ICP-21W-5	ICP-21W-10X-5			
Gold	50 mL	-----	--	ICP-22H-10X-20ML	ICP-22H-25X-20ML	
Au	100 mL	ICP-22H-1	ICP-22H-10X-1			
10% HCl (min.)	500 mL	ICP-22H-5	ICP-22H-10X-5			
Hafnium	50 mL	-----	--	ICP-23N-10X-20ML	ICP-23N-25X-20ML	
HfO ₂	100 mL	ICP-23N-1	ICP-23N-10X-1			
2-5% Nitric acid tr. HF	500 mL	ICP-23N-5	ICP-23N-10X-5			
Holmium	50 mL	-----	--	ICP-24N-10X-20ML	ICP-24N-25X-20ML	
Ho ₂ O ₃	100 mL	ICP-24N-1	ICP-24N-10X-1			
2-5% Nitric acid	500 mL	ICP-24N-5	ICP-24N-10X-5			



Single Element ICP				NoHaz 20 mL Size (No Hazardous shipping charge)	
Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	10,000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Indium	50 mL	-----	--	ICP-25N-10X-0.5	ICP-25N-25X-20ML
In	100 mL	ICP-25N-1	ICP-25N-10X-1	ICP-25N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-25N-5	ICP-25N-10X-5		
Iridium	50 mL	-----	--	ICP-26H-10X-0.5	ICP-26H-25X-20ML
IrCl ₃ • 3H ₂ O	100 mL	ICP-26H-1	ICP-26H-10X-1	ICP-26H-10X-20ML	
10% HCl (min.)	500 mL	ICP-26H-5	ICP-26H-10X-5		
Iron	50 mL	-----	--	ICP-27N-10X-0.5	ICP-27N-25X-20ML
Fe	100 mL	ICP-27N-1	ICP-27N-10X-1	ICP-27N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-27N-5	ICP-27N-10X-5		
Lanthanum	50 mL	-----	--	ICP-28N-10X-0.5	ICP-28N-25X-20ML
La ₂ O ₃	100 mL	ICP-28N-1	ICP-28N-10X-1	ICP-28N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-28N-5	ICP-28N-10X-5		
Lead	50 mL	-----	--	ICP-29N-10X-0.5	ICP-29N-25X-20ML
Pb(NO ₃) ₂	100 mL	ICP-29N-1	ICP-29N-10X-1	ICP-29N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-29N-5	ICP-29N-10X-5		
Lithium	50 mL	-----	--	ICP-30N-10X-0.5	ICP-30N-25X-20ML
Li ₂ CO ₃	100 mL	ICP-30N-1	ICP-30N-10X-1	ICP-30N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-30N-5	ICP-30N-10X-5		
Lutetium	50 mL	-----	--	ICP-31N-10X-0.5	ICP-31N-25X-20ML
Lu ₂ O ₃	100 mL	ICP-31N-1	ICP-31N-10X-1	ICP-31N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-31N-5	ICP-31N-10X-5		
Magnesium	50 mL	-----	--	ICP-32N-10X-0.5	ICP-32N-25X-20ML
MgO	100 mL	ICP-32N-1	ICP-32N-10X-1	ICP-32N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-32N-5	ICP-32N-10X-5		
Manganese	50 mL	-----	--	ICP-33N-10X-0.5	ICP-33N-25X-20ML
Mn(C ₂ H ₃ O ₂) ₂	100 mL	ICP-33N-1	ICP-33N-10X-1	ICP-33N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-33N-5	ICP-33N-10X-5		
Mercury	50 mL	-----	--	ICP-34N-10X-0.5	ICP-34N-25X-20ML
Hg	100 mL	ICP-34N-1	ICP-34N-10X-1	ICP-34N-10X-20ML	
10% Nitric acid	500 mL	ICP-34N-5	ICP-34N-10X-5		
Molybdenum *	50 mL	-----	--	ICP-35W-10X-0.5	ICP-35W-25X-20ML
(NH ₄) ₂ MoO ₄	100 mL	ICP-35W-1	ICP-35W-10X-1	ICP-35W-10X-20ML	
Water tr. NH ₄ OH	500 mL	ICP-35W-5	ICP-35W-10X-5		
Neodymium	50 mL	-----	--	ICP-36N-10X-0.5	ICP-36N-25X-20ML
Nd ₂ O ₃	100 mL	ICP-36N-1	ICP-36N-10X-1	ICP-36N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-36N-5	ICP-36N-10X-5		
Nickel	50 mL	-----	--	ICP-37N-10X-0.5	ICP-37N-25X-20ML
Ni	100 mL	ICP-37N-1	ICP-37N-10X-1	ICP-37N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-37N-5	ICP-37N-10X-5		
Niobium *	50 mL	-----	--	ICP-38W-10X-0.5	ICP-38W-25X-20ML
Nb ₂ O ₅	100 mL	ICP-38W-1	ICP-38W-10X-1	ICP-38W-10X-20ML	
Water tr. HF	500 mL	ICP-38W-5	ICP-38W-10X-5		
Palladium	50 mL	-----	--	ICP-40H-10X-0.5	ICP-40H-25X-20ML
Pd	100 mL	ICP-40H-1	ICP-40H-10X-1	ICP-40H-10X-20ML	
10% HCl (min.)	500 mL	ICP-40H-5	ICP-40H-10X-5		
Phosphorus *	50 mL	-----	--	ICP-41W-10X-0.5	-----
NH ₄ H ₂ PO ₄	100 mL	ICP-41W-1	ICP-41W-10X-1	ICP-41W-10X-20ML	--
Water	500 mL	ICP-41W-5	ICP-41W-10X-5		
Platinum	50 mL	-----	--	ICP-42H-10X-0.5	ICP-42H-25X-20ML
Pt	100 mL	ICP-42H-1	ICP-42H-10X-1	ICP-42H-10X-20ML	
10% HCl (min.)	500 mL	ICP-42H-5	ICP-42H-10X-5		
Potassium	50 mL	-----	--	ICP-43N-10X-0.5	ICP-43N-25X-20ML
KNO ₃	100 mL	ICP-43N-1	ICP-43N-10X-1	ICP-43N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-43N-5	ICP-43N-10X-5		
Praseodymium	50 mL	-----	--	ICP-44N-10X-0.5	ICP-44N-25X-20ML
Pr ₆ O ₁₁	100 mL	ICP-44N-1	ICP-44N-10X-1	ICP-44N-10X-20ML	
2-5% Nitric acid	500 mL	ICP-44N-5	ICP-44N-10X-5		
Rhenium *	50 mL	-----	--	ICP-45W-10X-0.5	ICP-45W-25X-20ML
Re	100 mL	ICP-45W-1	ICP-45W-10X-1	ICP-45W-10X-20ML	
Water tr. Nitric acid	500 mL	ICP-45W-5	ICP-45W-10X-5		



ICP

Single Element

- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials and Acids
- 18 Megohm de-ionized Water
- Concentration verified by Wet Chemical and Instrumental Analysis
- Packaged in specially prepared Acid leached bottles
- Actual Lot Analysis provided on label and C of A
- 36 Month Shelf Life



Single Element ICPs require a Hazardous Shipping Fee, except the "NoHaz" products in the right columns, and except elements marked with an asterisk *

Single Element ICP

				NoHaz 20 mL Size (No Hazardous shipping charge)	
Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	10,000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Rhodium	50 mL	-----	--	ICP-46H-10X-20ML	ICP-46H-25X-20ML
RhCl ₃ • 3H ₂ O	100 mL	ICP-46H-1	ICP-46H-10X-1		
10% HCl (min.)	500 mL	ICP-46H-5	ICP-46H-10X-5		
Rubidium	50 mL	-----	--	ICP-47N-10X-20ML	ICP-47N-25X-20ML
RbNO ₃	100 mL	ICP-47N-1	ICP-47N-10X-1		
2-5% Nitric acid	500 mL	ICP-47N-5	ICP-47N-10X-5		
Ruthenium	50 mL	-----	--	ICP-48H-10X-20ML	ICP-48H-25X-20ML
RuCl ₃ • 3H ₂ O	100 mL	ICP-48H-1	ICP-48H-10X-1		
10% HCl	500 mL	ICP-48H-5	ICP-48H-10X-5		
Samarium	50 mL	-----	--	ICP-49N-10X-20ML	ICP-49N-25X-20ML
Sm ₂ O ₃	100 mL	ICP-49N-1	ICP-49N-10X-1		
2-5% Nitric acid	500 mL	ICP-49N-5	ICP-49N-10X-5		
Scandium	50 mL	-----	--	ICP-50N-10X-20ML	ICP-50N-25X-20ML
Sc ₂ O ₃	100 mL	ICP-50N-1	ICP-50N-10X-1		
2-5% Nitric acid	500 mL	ICP-50N-5	ICP-50N-10X-5		
Selenium	50 mL	-----	--	ICP-51N-10X-20ML	ICP-51N-25X-20ML
Se	100 mL	ICP-51N-1	ICP-51N-10X-1		
2-5% Nitric acid	500 mL	ICP-51N-5	ICP-51N-10X-5		
Silicon *	50 mL	-----	--	ICP-52W-10X-20ML	----- --
(NH ₄) ₂ SiF ₆	100 mL	ICP-52W-1	ICP-52W-10X-1		
Water tr. HF	500 mL	ICP-52W-5	ICP-52W-10X-5		
Silver	50 mL	-----	--	ICP-53N-10X-20ML	ICP-53N-25X-20ML
AgNO ₃	100 mL	ICP-53N-1	ICP-53N-10X-1		
2-5% Nitric acid	500 mL	ICP-53N-5	ICP-53N-10X-5		
Sodium	50 mL	-----	--	ICP-54N-10X-20ML	ICP-54N-25X-20ML
NaNO ₃	100 mL	ICP-54N-1	ICP-54N-10X-1		
2-5% Nitric acid	500 mL	ICP-54N-5	ICP-54N-10X-5		
Strontium	50 mL	-----	--	ICP-55N-10X-20ML	ICP-55N-25X-20ML
Sr(NO ₃) ₂	100 mL	ICP-55N-1	ICP-55N-10X-1		
2-5% Nitric acid	500 mL	ICP-55N-5	ICP-55N-10X-5		
Sulfur *	50 mL	-----	--	ICP-56W-10X-20ML	ICP-56W-25X-20ML
(NH ₄) ₂ SO ₄	100 mL	ICP-56W-1	ICP-56W-10X-1		
Water	500 mL	ICP-56W-5	ICP-56W-10X-5		
Tantalum *	50 mL	-----	--	ICP-57W-10X-20ML	ICP-57W-25X-20ML
Ta	100 mL	ICP-57W-1	ICP-57W-10X-1		
Water tr. HF	500 mL	ICP-57W-5	ICP-57W-10X-5		
Tellurium	50 mL	-----	--	ICP-58H-10X-20ML	----- --
Te	100 mL	ICP-58H-1	ICP-58H-10X-1		
20% HCl (min.)	500 mL	ICP-58H-5	ICP-58H-10X-5		
Terbium	50 mL	-----	--	ICP-59N-10X-20ML	ICP-59N-25X-20ML
Tb ₂ O ₃	100 mL	ICP-59N-1	ICP-59N-10X-1		
2-5% Nitric acid	500 mL	ICP-59N-5	ICP-59N-10X-5		
Thallium	50 mL	-----	--	ICP-60N-10X-20ML	ICP-60N-25X-20ML
Tl	100 mL	ICP-60N-1	ICP-60N-10X-1		
2-5% Nitric acid	500 mL	ICP-60N-5	ICP-60N-10X-5		
Thorium	50 mL	-----	--	-----	-----
Th(NO ₃) ₄ • 4H ₂ O	100 mL	ICP-61N-1			
2-5% Nitric acid	500 mL	ICP-61N-5			
Thulium	50 mL	-----	--	ICP-62N-10X-20ML	ICP-62N-25X-20ML
Tm ₂ O ₃	100 mL	ICP-62N-1	ICP-62N-10X-1		
2-5% Nitric acid	500 mL	ICP-62N-5	ICP-62N-10X-5		



Single Element ICP

				NoHaz 20 mL Size (No Hazardous shipping charge)	
Element	Unit	1000 µg/mL Cat. No.	10,000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Tin	50 mL	-----	ICP-63N-10X-0.5	ICP-63N-10X-20ML	ICP-63N-25X-20ML
Starting Material	100 mL	ICP-63N-1	ICP-63N-10X-1		
Matrix	500 mL	ICP-63N-5	ICP-63N-10X-5		
2-5% Nitric acid tr. HF	500 mL	ICP-63N-5	ICP-63N-10X-5		
Titanium *	50 mL	-----	ICP-64W-10X-0.5	-----	-----
(NH ₄) ₂ TiF ₆	100 mL	ICP-64W-1	ICP-64W-10X-1		
Water tr. HF	500 mL	ICP-64W-5	ICP-64W-10X-5		
2-5% Nitric acid	500 mL	ICP-64W-5	ICP-64W-10X-5		
Tungsten *	50 mL	-----	ICP-65W-10X-0.5	ICP-65W-10X-20ML	-----
(NH ₄) ₂ WO ₄	100 mL	ICP-65W-1	ICP-65W-10X-1		
Water tr. NH ₄ OH	500 mL	ICP-65W-5	ICP-65W-10X-5		
2-5% Nitric acid	500 mL	ICP-65W-5	ICP-65W-10X-5		
Uranium	-----	-----	-----	-----	-----
U ₃ O ₈	100 mL	ICP-66N-1			
2-5% Nitric acid	500 mL	ICP-66N-5			
2-5% Nitric acid	500 mL	ICP-66N-5			
Vanadium	50 mL	-----	ICP-67N-10X-0.5	ICP-67N-10X-20ML	ICP-67N-25X-20ML
NH ₄ VO ₃	100 mL	ICP-67N-1	ICP-67N-10X-1		
2-5% Nitric acid	500 mL	ICP-67N-5	ICP-67N-10X-5		
2-5% Nitric acid	500 mL	ICP-67N-5	ICP-67N-10X-5		
Ytterbium	50 mL	-----	ICP-68N-10X-0.5	ICP-68N-10X-20ML	ICP-68N-25X-20ML
Yb ₂ O ₃	100 mL	ICP-68N-1	ICP-68N-10X-1		
2-5% Nitric acid	500 mL	ICP-68N-5	ICP-68N-10X-5		
2-5% Nitric acid	500 mL	ICP-68N-5	ICP-68N-10X-5		
Yttrium	50 mL	-----	ICP-69N-10X-0.5	ICP-69N-10X-20ML	ICP-69N-25X-20ML
Y ₂ O ₃	100 mL	ICP-69N-1	ICP-69N-10X-1		
2-5% Nitric acid	500 mL	ICP-69N-5	ICP-69N-10X-5		
2-5% Nitric acid	500 mL	ICP-69N-5	ICP-69N-10X-5		
Zinc	50 mL	-----	ICP-70N-10X-0.5	ICP-70N-10X-20ML	ICP-70N-25X-20ML
Zn	100 mL	ICP-70N-1	ICP-70N-10X-1		
2-5% Nitric acid	500 mL	ICP-70N-5	ICP-70N-10X-5		
2-5% Nitric acid	500 mL	ICP-70N-5	ICP-70N-10X-5		
Zirconium	50 mL	-----	ICP-71N-10X-0.5	ICP-71N-10X-20ML	ICP-71N-25X-20ML
ZrO(NO ₃) ₂	100 mL	ICP-71N-1	ICP-71N-10X-1		
2-5% Nitric acid	500 mL	ICP-71N-5	ICP-71N-10X-5		
2-5% Nitric acid	500 mL	ICP-71N-5	ICP-71N-10X-5		

Calibration and Matrix Blanks

Nitric Acid Blank

CLP-BLN-5 500 mL
CLP-BLN-L-VAP 1L
(2 x 500 mL)

5% HNO₃ in ASTM Type I Water

Hydrochloric Acid Blank

CLP-BLH-5 500 mL
CLP-BLH-L-VAP 1L
(2 x 500 mL)

5% HCl in ASTM Type I Water

Mixed Acid Blank

CLP-BLMA-5 500 mL
CLP-BLMA-L-VAP 1L
(2 x 500 mL)

5% HCl + 1% HNO₃ in
ASTM Type I Water

Water Blank

CLP-BLW-5 500 mL
CLP-BLW-L-VAP 1L
(2 x 500 mL)

ASTM Type I Water



ICP/MS

Single Element

AccuStandard's ICP/MS Standards are formulated to meet the needs of this very special instrument. As matrix effect is of utmost concern, each standard is formulated in specially purified 18 megohm de-ionized water and ultra pure acids; after both wet chemical and instrumental analysis, the standards are packaged in acid leached FLPE containers to provide required protection and, of course, all standards are traceable to the National Institute of Standards and Technology (NIST) weights and Reference Materials.

- Ultra Pure Starting Materials
- Traceable to NIST Reference Materials
- 36 Month Shelf Life
- Special Packaging

Over 25
New Elements

Single Element ICP/MS

Element	Matrix	Unit	100 µg/mL Cat. No.	1,000 µg/mL Cat. No.	10,000 µg/mL Cat. No.
Al (Aluminum)	2-5% HNO ₃	100 mL	ICP-MS-01N-0.01X-1	ICP-MS-01N-0.1X-1	ICP-MS-01N-1
Sb (Antimony)	2-5% HNO ₃	100 mL	ICP-MS-02N-0.01X-1	ICP-MS-02N-0.1X-1	ICP-MS-02N-1
As (Arsenic)	2-5% HNO ₃	100 mL	ICP-MS-03N-0.01X-1	ICP-MS-03N-0.1X-1	ICP-MS-03N-1
Ba (Barium)	2-5% HNO ₃	100 mL	ICP-MS-04N-0.01X-1	ICP-MS-04N-0.1X-1	ICP-MS-04N-1
Be (Beryllium)	2-5% HNO ₃	100 mL	ICP-MS-05N-0.01X-1	ICP-MS-05N-0.1X-1	ICP-MS-05N-1
Bi (Bismuth)	2-10% HNO ₃	100 mL	ICP-MS-06N-0.01X-1	ICP-MS-06N-0.1X-1	ICP-MS-06N-1
B (Boron) *	H ₂ O tr. NH ₄ OH	100 mL	ICP-MS-07W-0.01X-1	ICP-MS-07W-0.1X-1	ICP-MS-07W-1
Cd (Cadmium)	2-5% HNO ₃	100 mL	ICP-MS-08N-0.01X-1	ICP-MS-08N-0.1X-1	ICP-MS-08N-1
Ca (Calcium)	2-5% HNO ₃	100 mL	ICP-MS-09N-0.01X-1	ICP-MS-09N-0.1X-1	ICP-MS-09N-1
Ce (Cerium)	2-5% HNO ₃	100 mL	ICP-MS-11N-0.01X-1	ICP-MS-11N-0.1X-1	ICP-MS-11N-1
Cs (Cesium)	2-5% HNO ₃	100 mL	ICP-MS-12N-0.01X-1	ICP-MS-12N-0.1X-1	ICP-MS-12N-1
Cr (Chromium)	2-5% HNO ₃	100 mL	ICP-MS-13N-0.01X-1	ICP-MS-13N-0.1X-1	ICP-MS-13N-1
Co (Cobalt)	2-5% HNO ₃	100 mL	ICP-MS-14N-0.01X-1	ICP-MS-14N-0.1X-1	ICP-MS-14N-1
Cu (Copper)	2-5% HNO ₃	100 mL	ICP-MS-15N-0.01X-1	ICP-MS-15N-0.1X-1	ICP-MS-15N-1
Dy (Dysprosium)	2-5% HNO ₃	100 mL	ICP-MS-16N-0.01X-1	ICP-MS-16N-0.1X-1	ICP-MS-16N-1
Er (Erbium)	2-5% HNO ₃	100 mL	ICP-MS-17N-0.01X-1	ICP-MS-17N-0.1X-1	ICP-MS-17N-1
Eu (Europium)	2-5% HNO ₃	100 mL	ICP-MS-18N-0.01X-1	ICP-MS-18N-0.1X-1	ICP-MS-18N-1
Gd (Gadolinium)	2-5% HNO ₃	100 mL	ICP-MS-19N-0.01X-1	ICP-MS-19N-0.1X-1	ICP-MS-19N-1
Ga (Gallium)	2-5% HNO ₃	100 mL	ICP-MS-20N-0.01X-1	ICP-MS-20N-0.1X-1	ICP-MS-20N-1
Ge (Germanium) *	H ₂ O tr. HF	100 mL	ICP-MS-21W-0.01X-1	ICP-MS-21W-0.1X-1	ICP-MS-21W-1
Au (Gold)	10% HCl	100 mL	ICP-MS-22H-0.01X-1	ICP-MS-22H-0.1X-1	ICP-MS-22H-1
Hf (Hafnium)	2-5% HNO ₃ tr. HF	100 mL	ICP-MS-23N-0.01X-1	ICP-MS-23N-0.1X-1	ICP-MS-23N-1
Ho (Holmium)	2-5% HNO ₃	100 mL	ICP-MS-24N-0.01X-1	ICP-MS-24N-0.1X-1	ICP-MS-24N-1
In (Indium)	2-5% HNO ₃	100 mL	ICP-MS-25N-0.01X-1	ICP-MS-25N-0.1X-1	ICP-MS-25N-1
Ir (Iridium)	10% HCl	100 mL	ICP-MS-26H-0.01X-1	ICP-MS-26H-0.1X-1	ICP-MS-26H-1
Fe (Iron)	2-5% HNO ₃	100 mL	ICP-MS-27N-0.01X-1	ICP-MS-27N-0.1X-1	ICP-MS-27N-1
La (Lanthanum)	2-5% HNO ₃	100 mL	ICP-MS-28N-0.01X-1	ICP-MS-28N-0.1X-1	ICP-MS-28N-1
Pb (Lead)	2-5% HNO ₃	100 mL	ICP-MS-29N-0.01X-1	ICP-MS-29N-0.1X-1	ICP-MS-29N-1
Li (Lithium)	2-5% HNO ₃	100 mL	ICP-MS-30N-0.01X-1	ICP-MS-30N-0.1X-1	ICP-MS-30N-1
Lu (Lutetium)	2-5% HNO ₃	100 mL	ICP-MS-31N-0.01X-1	ICP-MS-31N-0.1X-1	ICP-MS-31N-1
Mg (Magnesium)	2-5% HNO ₃	100 mL	ICP-MS-32N-0.01X-1	ICP-MS-32N-0.1X-1	ICP-MS-32N-1
Mn (Manganese)	2-5% HNO ₃	100 mL	ICP-MS-33N-0.01X-1	ICP-MS-33N-0.1X-1	ICP-MS-33N-1
Hg (Mercury)	10% HNO ₃	100 mL	ICP-MS-34N-0.01X-1	ICP-MS-34N-0.1X-1	ICP-MS-34N-1
Mo (Molybdenum) *	H ₂ O tr. NH ₄ OH	100 mL	ICP-MS-35W-0.01X-1	ICP-MS-35W-0.1X-1	ICP-MS-35W-1
Nd (Neodymium) *	2-5% HNO ₃	100 mL	ICP-MS-36N-0.01X-1	ICP-MS-36N-0.1X-1	ICP-MS-36N-1
Ni (Nickel)	2-5% HNO ₃	100 mL	ICP-MS-37N-0.01X-1	ICP-MS-37N-0.1X-1	ICP-MS-37N-1
Nb (Niobium)	H ₂ O tr. HF	100 mL	ICP-MS-38W-0.01X-1	ICP-MS-38W-0.1X-1	ICP-MS-38W-1
Pd (Palladium)	10% HCl	100 mL	ICP-MS-40H-0.01X-1	ICP-MS-40H-0.1X-1	ICP-MS-40H-1
P (Phosphorous) *	H ₂ O	100 mL	ICP-MS-41W-0.01X-1	ICP-MS-41W-0.1X-1	ICP-MS-41W-1
Pt (Platinum)	10% HCl	100 mL	ICP-MS-42H-0.01X-1	ICP-MS-42H-0.1X-1	ICP-MS-42H-1
K (Potassium)	2-5% HNO ₃	100 mL	ICP-MS-43N-0.01X-1	ICP-MS-43N-0.1X-1	ICP-MS-43N-1
Pr (Praseodymium)	2-5% HNO ₃	100 mL	ICP-MS-44N-0.01X-1	ICP-MS-44N-0.1X-1	ICP-MS-44N-1
Re (Rhenium) *	H ₂ O tr. HNO ₃	100 mL	ICP-MS-45W-0.01X-1	ICP-MS-45W-0.1X-1	ICP-MS-45W-1
Rh (Rhodium)	10% HCl	100 mL	ICP-MS-46H-0.01X-1	ICP-MS-46H-0.1X-1	ICP-MS-46H-1
Rb (Rubidium)	2-5% HNO ₃	100 mL	ICP-MS-47N-0.01X-1	ICP-MS-47N-0.1X-1	ICP-MS-47N-1
Ru (Ruthenium)	10% HCl	100 mL	ICP-MS-48H-0.01X-1	ICP-MS-48H-0.1X-1	ICP-MS-48H-1
Sm (Samarium)	2-5% HNO ₃	100 mL	ICP-MS-49N-0.01X-1	ICP-MS-49N-0.1X-1	ICP-MS-49N-1
Sc (Scandium)	2-5% HNO ₃	100 mL	ICP-MS-50N-0.01X-1	ICP-MS-50N-0.1X-1	ICP-MS-50N-1
Se (Selenium)	2-5% HNO ₃	100 mL	ICP-MS-51N-0.01X-1	ICP-MS-51N-0.1X-1	ICP-MS-51N-1
Si (Silicon) *	H ₂ O tr. HF	100 mL	ICP-MS-52W-0.01X-1	ICP-MS-52W-0.1X-1	ICP-MS-52W-1

These products require a Hazardous Shipping Fee, except products marked with an asterisk *



Single Element ICP/MS

Element	Matrix	Unit	100 µg/mL Cat. No.	1,000 µg/mL Cat. No.	10,000 µg/mL Cat. No.
Ag (Silver)	2-5% HNO ₃	100 mL	ICP-MS-53N-0.01X-1	ICP-MS-53N-0.1X-1	ICP-MS-53N-1
Na (Sodium)	2-5% HNO ₃	100 mL	ICP-MS-54N-0.01X-1	ICP-MS-54N-0.1X-1	ICP-MS-54N-1
Sr (Strontium)	2-5% HNO ₃	100 mL	ICP-MS-55N-0.01X-1	ICP-MS-55N-0.1X-1	ICP-MS-55N-1
S (Sulfur) *	H ₂ O	100 mL	ICP-MS-56W-0.01X-1	ICP-MS-56W-0.1X-1	ICP-MS-56W-1
Ta (Tantalum) *	H ₂ O tr. HF	100 mL	ICP-MS-57W-0.01X-1	ICP-MS-57W-0.1X-1	ICP-MS-57W-1
Te (Tellurium)	10% HCl (min.)	100 mL	ICP-MS-58H-0.01X-1	ICP-MS-58H-0.1X-1	ICP-MS-58H-1
Tb (Terbium)	2-5% HNO ₃	100 mL	ICP-MS-59N-0.01X-1	ICP-MS-59N-0.1X-1	ICP-MS-59N-1
Tl (Thallium)	2-5% HNO ₃	100 mL	ICP-MS-60N-0.01X-1	ICP-MS-60N-0.1X-1	ICP-MS-60N-1
Th (Thorium)	2-5% HNO ₃	100 mL	ICP-MS-61N-0.01X-1	ICP-MS-61N-0.1X-1	----- --
Tm (Thulium)	2-5% HNO ₃	100 mL	ICP-MS-62N-0.01X-1	ICP-MS-62N-0.1X-1	ICP-MS-62N-1
Sn (Tin)	2-5% HNO ₃ tr. HF	100 mL	ICP-MS-63N-0.01X-1	ICP-MS-63N-0.1X-1	ICP-MS-63N-1
Ti (Titanium) *	H ₂ O tr. HF	100 mL	ICP-MS-64W-0.01X-1	ICP-MS-64W-0.1X-1	ICP-MS-64W-1
W (Tungsten) *	H ₂ O tr. NH ₄ OH	100 mL	ICP-MS-65W-0.01X-1	ICP-MS-65W-0.1X-1	ICP-MS-65W-1
U (Uranium)	2-5% HNO ₃	100 mL	ICP-MS-66N-0.01X-1	ICP-MS-66N-0.1X-1	----- --
V (Vanadium)	2-5% HNO ₃	100 mL	ICP-MS-67N-0.01X-1	ICP-MS-67N-0.1X-1	ICP-MS-67N-1
Yb (Ytterbium)	2-5% HNO ₃	100 mL	ICP-MS-68N-0.01X-1	ICP-MS-68N-0.1X-1	ICP-MS-68N-1
Y (Yttrium)	2-5% HNO ₃	100 mL	ICP-MS-69N-0.01X-1	ICP-MS-69N-0.1X-1	ICP-MS-69N-1
Zn (Zinc)	2-5% HNO ₃	100 mL	ICP-MS-70N-0.01X-1	ICP-MS-70N-0.1X-1	ICP-MS-70N-1
Zr (Zirconium)	2-5% HNO ₃	100 mL	ICP-MS-71N-0.01X-1	ICP-MS-71N-0.1X-1	ICP-MS-71N-1





AA

Single Element

Each standard is prepared from high purity starting materials, 18 megohm de-ionized water and high purity acids. Every standard is instrumentally assayed to verify concentration of specified element. Actual Lot Analysis is provided on the label and a Certificate of Analysis is included for ease of record keeping and availability at audits.

- Traceable to NIST Reference Materials
- Certificate of Analysis included
- Actual Concentration Analysis
- High Purity Starting Materials and Acids
- 18 megohm de-ionized Water
- 36 Month Shelf Life

NoHaz Option with Most ICP & AA Single Element Standards



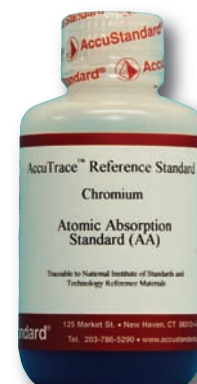
SAVINGS:

- No Hazardous Shipping Fees
- Lower Shipping Costs (less weight)
- Yields More – 500 mL from 20 mL concentrate
- Includes empty pre-washed, pre-labeled HDPE bottle (250 mL for 10,000 µg/mL; 500 mL for 25,000 µg/mL)

Single Element AAs require a Hazardous Shipping Fee, except the "NoHaz"™ products in the right columns, and except elements marked with an asterisk *

**Haz
Fees**

Single Element AA			NoHaz Size (No Hazardous shipping charge)	
Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Aluminum	100 mL	AA01N-1	AA01N-10X-20ML	AA01N-25X-20ML
2-5% Nitric acid	500 mL	AA01N-5		
Antimony	100 mL	AA02N-1	AA02W-10X-20ML	----- --
2-5% HNO ₃ tr. Tartaric acid	500 mL	AA02N-5		
Arsenic	100 mL	AA03N-1	AA03N-10X-20ML	AA03N-25X-20ML
2-5% Nitric acid	500 mL	AA03N-5		
Barium	100 mL	AA04N-1	AA04N-10X-20ML	AA04N-25X-20ML
2-5% Nitric acid	500 mL	AA04N-5		
Beryllium	100 mL	AA05N-1	AA05N-10X-20ML	----- --
2-5% Nitric acid	500 mL	AA05N-5		
Bismuth	100 mL	AA06N-1	AA06N-10X-20ML	AA06N-25X-20ML
10% Nitric acid	500 mL	AA06N-5		
Boron *	100 mL	AA07W-1	AA07W-10X-20ML	----- --
Water tr. NH ₄ OH	500 mL	AA07W-5		
Cadmium	100 mL	AA08N-1	AA08N-10X-20ML	AA08N-25X-20ML
2-5% Nitric acid	500 mL	AA08N-5		
Calcium	100 mL	AA09N-1	AA09N-10X-20ML	AA09N-25X-20ML
2-5% Nitric acid	500 mL	AA09N-5		
Cerium	100 mL	AA11N-1	AA11N-10X-20ML	AA11N-25X-20ML
2-5% Nitric acid	500 mL	AA11N-5		
Cesium	100 mL	AA12N-1	AA12N-10X-20ML	AA12N-25X-20ML
2-5% Nitric acid	500 mL	AA12N-5		
Chromium	100 mL	AA13N-1	AA13N-10X-20ML	AA13N-25X-20ML
2-5% Nitric acid	500 mL	AA13N-5		
Cobalt	100 mL	AA14N-1	AA14N-10X-20ML	AA14N-25X-20ML
2-5% Nitric acid	500 mL	AA14N-5		
Copper	100 mL	AA15N-1	AA15N-10X-20ML	AA15N-25X-20ML
2-5% Nitric acid	500 mL	AA15N-5		
Dysprosium	100 mL	AA16N-1	AA16N-10X-20ML	AA16N-25X-20ML
2-5% Nitric acid	500 mL	AA16N-5		
Erbium	100 mL	AA17N-1	AA17N-10X-20ML	AA17N-25X-20ML
2-5% Nitric acid	500 mL	AA17N-5		
Europium	100 mL	AA18N-1	AA18N-10X-20ML	AA18N-25X-20ML
2-5% Nitric acid	500 mL	AA18N-5		
Gadolinium	100 mL	AA19N-1	AA19N-10X-20ML	AA19N-25X-20ML
2-5% Nitric acid	500 mL	AA19N-5		
Gallium	100 mL	AA20N-1	AA20N-10X-20ML	----- --
2-5% Nitric acid	500 mL	AA20N-5		
Germanium *	100 mL	AA21W-1	AA21W-10X-20ML	----- --
Water tr. HF	500 mL	AA21W-5		



AA

Single Element



Single Element AAs require a Hazardous Shipping Fee, except the "NoHaz"™ products in the right columns, and except elements marked with an asterisk *

**Haz
Fees**

Single Element AA			NoHaz Size (No Hazardous shipping charge)	
Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Gold	100 mL	AA22H-1	AA22H-10X-20ML	AA22H-25X-20ML
5% HCl (min.)	500 mL	AA22H-5		
Hafnium	100 mL	AA23N-1	AA23N-10X-20ML	AA23N-25X-20ML
2-5% Nitric acid tr. HF	500 mL	AA23N-5		
Holmium	100 mL	AA24N-1	AA24N-10X-20ML	AA24N-25X-20ML
2-5% Nitric acid	500 mL	AA24N-5		
Indium	100 mL	AA25N-1	AA25N-10X-20ML	AA25N-25X-20ML
2-5% Nitric acid	500 mL	AA25N-5		
Iridium	100 mL	AA26H-1	AA26H-10X-20ML	AA26H-25X-20ML
10% HCl (min.)	500 mL	AA26H-5		
Iron	100 mL	AA27N-1	AA27N-10X-20ML	AA27N-25X-20ML
2-5% Nitric acid	500 mL	AA27N-5		
Lanthanum	100 mL	AA28N-1	AA28N-10X-20ML	AA28N-25X-20ML
2-5% Nitric acid	500 mL	AA28N-5		
Lead	100 mL	AA29N-1	AA29N-10X-20ML	AA29N-25X-20ML
2-5% Nitric acid	500 mL	AA29N-5		
Lithium	100 mL	AA30N-1	AA30N-10X-20ML	AA30N-25X-20ML
2-5% Nitric acid	500 mL	AA30N-5		
Lutetium	100 mL	AA31N-1	AA31N-10X-20ML	AA31N-25X-20ML
2-5% Nitric acid	500 mL	AA31N-5		
Magnesium	100 mL	AA32N-1	AA32N-10X-20ML	AA32N-25X-20ML
2-5% Nitric acid	500 mL	AA32N-5		
Manganese	100 mL	AA33N-1	AA33N-10X-20ML	AA33N-25X-20ML
2-5% Nitric acid	500 mL	AA33N-5		
Mercury	100 mL	AA34N-1	AA34N-10X-20ML	AA34N-25X-20ML
2-5% Nitric acid	500 mL	AA34N-5		
Molybdenum *	100 mL	AA35W-1	AA35W-10X-20ML	AA35W-25X-20ML
Water tr. NH ₄ OH	500 mL	AA35W-5		
Neodymium	100 mL	AA36N-1	AA36N-10X-20ML	AA36N-25X-20ML
2-5% Nitric acid	500 mL	AA36N-5		
Nickel	100 mL	AA37N-1	AA37N-10X-20ML	AA37N-25X-20ML
2-5% Nitric acid	500 mL	AA37N-5		
Niobium *	100 mL	AA38W-1	AA38W-10X-20ML	AA38W-25X-20ML
Water tr. HF	500 mL	AA38W-5		
Palladium	100 mL	AA40H-1	AA40H-10X-20ML	AA40H-25X-20ML
10% HCl (min.)	500 mL	AA40H-5		
Phosphorus *	100 mL	AA41W-1	AA41W-10X-20ML	----- --
Water	500 mL	AA41W-5		
Platinum	100 mL	AA42H-1	AA42H-10X-20ML	AA42H-25X-20ML
2% HCl (min.)	500 mL	AA42H-5		
Potassium	100 mL	AA43N-1	AA43N-10X-20ML	AA43N-25X-20ML
2-5% Nitric acid	500 mL	AA43N-5		
Praseodymium	100 mL	AA44N-1	AA44N-10X-20ML	AA44N-25X-20ML
2-5% Nitric acid	500 mL	AA44N-5		
Rhenium *	100 mL	AA45W-1	AA45W-10X-20ML	AA45W-25X-20ML
Water	500 mL	AA45W-5		
Rhodium	100 mL	AA46H-1	AA46H-10X-20ML	AA46H-25X-20ML
10% HCl (min.)	500 mL	AA46H-5		
Rubidium	100 mL	AA47N-1	AA47N-10X-20ML	AA47N-25X-20ML
2-5% Nitric acid	500 mL	AA47N-5		
Ruthenium	100 mL	AA48H-1	AA48H-10X-20ML	AA48H-25X-20ML
10% HCl	500 mL	AA48H-5		
Samarium	100 mL	AA49N-1	AA49N-10X-20ML	AA49N-25X-20ML
2-5% Nitric acid	500 mL	AA49N-5		
Scandium	100 mL	AA50N-1	AA50N-10X-20ML	AA50N-25X-20ML
2-5% Nitric acid	500 mL	AA50N-5		



AA

Single Element

- Traceable to NIST Reference Materials
- Certificate of Analysis included
- Actual Concentration Analysis
- High Purity Starting Materials and Acids
- 18 megohm de-ionized Water
- 36 Month Shelf Life

Single Element AAs require a Hazardous Shipping Fee, **except** the "NoHaz"™ products in the right columns, and **except** elements marked with an asterisk *

**Haz
Fees**

Single Element AA			NoHaz Size (No Hazardous shipping charge)	
Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	20 mL (NoHaz) 10,000 µg/mL Cat. No.	20 mL (NoHaz) 25,000 µg/mL Cat. No.
Selenium	100 mL	AA51N-1	AA51N-10X-20ML	AA51N-25X-20ML
2-5% Nitric acid	500 mL	AA51N-5		
Silicon *	100 mL	AA52W-1	AA52W-10X-20ML	----- --
Water tr. HF	500 mL	AA52W-5		
Silver	100 mL	AA53N-1	AA53N-10X-20ML	AA53N-25X-20ML
2-5% Nitric acid	500 mL	AA53N-5		
Sodium	100 mL	AA54N-1	AA54N-10X-20ML	AA54N-25X-20ML
2-5% Nitric acid	500 mL	AA54N-5		
Strontium	100 mL	AA55N-1	AA55N-10X-20ML	AA55N-25X-20ML
2-5% Nitric acid	500 mL	AA55N-5		
Sulfur *	100 mL	AA56W-1	AA56W-10X-20ML	AA56W-25X-20ML
Water	500 mL	AA56W-5		
Tantalum *	100 mL	AA57W-1	AA57W-10X-20ML	AA57W-25X-20ML
Water tr. HF	500 mL	AA57W-5		
Tellurium	100 mL	AA58H-1	AA58H-10X-20ML	----- --
10% HCl (min.)	500 mL	AA58H-5		
Terbium	100 mL	AA59N-1	AA59N-10X-20ML	AA59N-25X-20ML
2-5% Nitric acid	500 mL	AA59N-5		
Thallium	100 mL	AA60N-1	AA60N-10X-20ML	AA60N-25X-20ML
2-5% Nitric acid	500 mL	AA60N-5		
Thorium	100 mL	AA61N-1	----- --	----- --
2-5% Nitric acid	500 mL	AA61N-5		
Thulium	100 mL	AA62N-1	AA62N-10X-20ML	AA62N-25X-20ML
2-5% Nitric acid	500 mL	AA62N-5		
Tin	100 mL	AA63N-1	AA63N-10X-20ML	AA63N-25X-20ML
2-5% Nitric acid tr. HF	500 mL	AA63N-5		
Titanium *	100 mL	AA64W-1	AA64W-10X-20ML	----- --
Water tr. HF	500 mL	AA64W-5		
Tungsten *	100 mL	AA65W-1	AA65W-10X-20ML	----- --
Water tr. NH ₄ OH	500 mL	AA65W-5		
Uranium	100 mL	AA66N-1	----- --	----- --
2-5% Nitric acid	500 mL	AA66N-5		
Vanadium	100 mL	AA67N-1	AA67N-10X-20ML	AA67N-25X-20ML
5-10% Nitric acid	500 mL	AA67N-5		
Ytterbium	100 mL	AA68N-1	AA68N-10X-20ML	AA68N-25X-20ML
2-5% Nitric acid	500 mL	AA68N-5		
Yttrium	100 mL	AA69N-1	AA69N-10X-20ML	AA69N-25X-20ML
2-5% Nitric acid	500 mL	AA69N-5		
Zinc	100 mL	AA70N-1	AA70N-10X-20ML	AA70N-25X-20ML
2-5% Nitric acid	500 mL	AA70N-5		
Zirconium	100 mL	AA71N-1	AA71N-10X-20ML	AA71N-25X-20ML
2-5% Nitric acid	500 mL	AA71N-5		



Matrix Modifier Solutions for Graphite Furnace AA

These Matrix Modifiers enhance sensitivity and suppress background interferences observed in trace metal analysis.

Modifier Description	Modifier Source	Unit	Cat. No.
Ammonium dihydrogen phosphate 40% in H ₂ O	NH ₄ H ₂ PO ₄	50 mL	MOD-02-0.5
		100 mL	MOD-02-1
		500 mL	MOD-02-5
Ammonium nitrate 5% in H ₂ O	NH ₄ NO ₃	50 mL	MOD-03-0.5
		100 mL	MOD-03-1
		500 mL	MOD-03-5
Calcium nitrate 2% in 5% in HNO ₃	Ca(NO ₃) ₂ • 4H ₂ O	50 mL	MOD-04-0.5
		100 mL	MOD-04-1
		500 mL	MOD-04-5
Lanthanum chloride 5% in 5% HCl	LaCl ₃	50 mL	MOD-05-0.5
		100 mL	MOD-05-1
		500 mL	MOD-05-5
Lanthanum nitrate 5% in 5% HNO ₃	LaNO ₃	50 mL	MOD-06-0.5
		100 mL	MOD-06-1
		500 mL	MOD-06-5
Magnesium nitrate 2% in 5% HNO ₃	Mg(NO ₃) ₂	50 mL	MOD-07-0.5
		100 mL	MOD-07-1
		500 mL	MOD-07-5
Nickel nitrate 5% in 5% HNO ₃	Ni(NO ₃) ₂	50 mL	MOD-08-0.5
		100 mL	MOD-08-1
		500 mL	MOD-08-5
Palladium nitrate 0.2% in 5% HNO ₃	Pd(NO ₃) ₂	50 mL	MOD-09A-0.5
		100 mL	MOD-09A-1
		500 mL	MOD-09A-5
Palladium nitrate 0.5% in 5% HNO ₃	Pd(NO ₃) ₂	50 mL	MOD-09B-0.5
		100 mL	MOD-09B-1
		500 mL	MOD-09B-5
Palladium nitrate 1.0% in 5% HNO ₃	Pd(NO ₃) ₂	50 mL	MOD-09C-0.5
		100 mL	MOD-09C-1
		500 mL	MOD-09C-5

Calibration and Matrix Blanks

Nitric Acid Blank

CLP-BLN-5 500 mL
CLP-BLN-L-SET L (2 x 500 mL)

5% HNO₃ in ASTM Type I Water

Hydrochloric Acid Blank

CLP-BLH-5 500 mL
CLP-BLH-L-SET L (2 x 500 mL)

5% HCl in ASTM Type I Water

Water Blank

CLP-BLW-5 * 500 mL
CLP-BLW-L-SET * L (2 x 500 mL)

ASTM Type I Water

Mixed Acid Blank

CLP-BLMA-5 500 mL
CLP-BLMA-L-SET L (2 x 500 mL)

5% HCl + 1% HNO₃ in ASTM Type I Water

Multi-Element Graphite Furnace AA Calibration & Spiking Standards

GFAA Instrument Calibration Standard

CLP-CAL-AA 50 mL
At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Sb (Antimony)	100
As (Arsenic)	50
Cd (Cadmium)	10
Pb (Lead)	50
Se (Selenium)	100
Tl (Thallium)	50

GFAA Predigestion Spike Solution

CLP-SP1-AA 50 mL
At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Sb (Antimony)	100
As (Arsenic)	40
Cd (Cadmium)	5
Pb (Lead)	20
Se (Selenium)	10
Tl (Thallium)	50

GFAA Initial Calibration Verification

(Meets CLP Second Source Requirements)

CLP-ICV-AA 50 mL
At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Sb (Antimony)	50
As (Arsenic)	25
Cd (Cadmium)	5
Pb (Lead)	25
Se (Selenium)	50
Tl (Thallium)	25

GFAA Mercury Standard for Calibration or Spiking

CLP-HG-AA 50 mL
100 µg/mL in 5% HNO₃

Hg (Mercury)

GFAA Postdigestion Spike Solution

(2 x CRDL except for Lead)
CLP-SP2-AA 50 mL
At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Sb (Antimony)	120
As (Arsenic)	20
Cd (Cadmium)	10
Pb (Lead)	20
Se (Selenium)	10
Tl (Thallium)	20

GFAA Set

CLP-AA-SET 5 x 50 mL
CLP-CAL-AA CLP-HG-AA
CLP-SPI-AA CLP-SP2-AA
CLP-ICV-AA

These products require a Hazardous Shipping Fee, except products marked with an asterisk *



Ion Chromatography

- 99.99% High Purity Starting Materials
- 18 Megohm, ASTM type I de-ionized Water
- Packaged in pre-cleaned high quality HDPE bottles.
- Each Standard is Supplied with a Certificate of Analysis, stating traceability to NIST, certified value and expiration date.
- Final Solution is filtered through a 0.2 µm filter to eliminate contaminants (such as suspended solids and microbes). This extends shelf life and protects your column.
- Ready-To-Use Mixes and Calibration Sets.
- Standards may be used for other "Classical or Wet" methods.

Anions

Water Matrix	Unit	100 µg/mL Cat. No.	200 µg/mL Cat. No.	1000 µg/mL Cat. No.
■ Acetate	100 mL	IC-ACET-1X-1	-----	IC-ACET-10X-1
	500 mL	IC-ACET-1X-5	-----	IC-ACET-10X-5
Br (Bromate) NEW	100 mL	-----	-----	IC-BROM-10X-1
	500 mL	-----	-----	IC-BROM-10X-5
Br (Bromide)	100 mL	IC-BR-1X-1	IC-BR-2X-1	IC-BR-10X-1
	500 mL	IC-BR-1X-5	IC-BR-2X-5	IC-BR-10X-5
■ Chlorate	100 mL	IC-CHLR-1X-1	-----	IC-CHLR-10X-1
	500 mL	IC-CHLR-1X-5	-----	IC-CHLR-10X-5
Citrate NEW	100 mL	-----	-----	IC-CITR-10X-1
Cl (Chloride)	100 mL	IC-Cl-1X-1	IC-Cl-2X-1	IC-Cl-10X-1
	500 mL	IC-Cl-1X-5	IC-Cl-2X-5	IC-Cl-10X-5
■ Chromate	100 mL	IC-CHRM-1X-1	-----	IC-CHRM-10X-1
	500 mL	IC-CHRM-1X-5	-----	IC-CHRM-10X-5
F (Fluoride)	100 mL	IC-F-1X-1	IC-F-2X-1	IC-F-10X-1
	500 mL	IC-F-1X-5	IC-F-2X-5	IC-F-10X-5
■ Formate	100 mL	IC-FORM-1X-1	-----	IC-FORM-10X-1
	500 mL	IC-FORM-1X-5	-----	IC-FORM-10X-5
Glycolate NEW	100 mL	-----	-----	IC-GLYC-10X-1
Iodide	100 mL	-----	-----	IC-I-10X-1
Lactate NEW	100 mL	-----	-----	IC-LACT-10X-1
Malate NEW	100 mL	-----	-----	IC-MALA-10X-1
Maleate NEW	100 mL	-----	-----	IC-MALE-10X-1
NO ₂ (Nitrite)	100 mL	IC-NO2-1X-1	IC-NO2-2X-1	IC-NO2-10X-1
	500 mL	IC-NO2-1X-5	IC-NO2-2X-5	IC-NO2-10X-5
NO ₃ (Nitrate)	100 mL	IC-NO3-1X-1	IC-NO3-2X-1	IC-NO3-10X-1
	500 mL	IC-NO3-1X-5	IC-NO3-2X-5	IC-NO3-10X-5
■ Oxalate	100 mL	IC-OXAL-1X-1	-----	IC-OXAL-10X-1
	500 mL	IC-OXAL-1X-5	-----	IC-OXAL-10X-5
Perchlorate NEW	100 mL	-----	-----	IC-PER-10X-1
Phthalate NEW	100 mL	-----	-----	IC-PHTH-10X-1
PO ₄ (Phosphate)	100 mL	IC-PO4-1X-1	IC-PO4-2X-1	IC-PO4-10X-1
	500 mL	IC-PO4-1X-5	IC-PO4-2X-5	IC-PO4-10X-5
Propionate NEW	100 mL	-----	-----	IC-PROP-10X-1
Succinate NEW	100 mL	-----	-----	IC-SUCC-10X-1
SO ₄ (Sulfate)	100 mL	IC-SO4-1X-1	IC-SO4-2X-1	IC-SO4-10X-1
	500 mL	IC-SO4-1X-5	IC-SO4-2X-5	IC-SO4-10X-5
Tartrate NEW	100 mL	-----	-----	IC-TART-10X-1

■ Organic Acid Salt Standards

Anion Kits

IC-AN-1X-1-SET 7 x 100 mL

IC-AN-1X-5-SET 7 x 500 mL

Each at 100 µg/mL in Water

IC-AN-2X-1-SET 7 x 100 mL

IC-AN-2X-5-SET 7 x 500 mL

Each at 200 µg/mL in Water

IC-AN-10X-1-SET 7 x 100 mL

IC-AN-10X-5-SET 7 x 500 mL

Each at 1000 µg/mL in Water

Fluoride	Bromide
Chloride	Phosphate
Nitrite	Sulfate
Nitrate	

These products do not require Hazardous Shipping charges at this time



Ion Chrom - Ion Singles as the Element

	Unit	100 µg/mL	1000 µg/mL
NO₂-N (Nitrite-Nitrogen)	100 mL	IC-NO2-N-1X-1	IC-NO2-N-10X-1
Water Matrix	500 mL	IC-NO2-N-1X-5	IC-NO2-N-10X-5
NO₃-N (Nitrate-Nitrogen)	100 mL	IC-NO3-N-1X-1	IC-NO3-N-10X-1
Water Matrix	500 mL	IC-NO3-N-1X-5	IC-NO3-N-10X-5
PO₄-P (Phosphate-Phosphorous)	100 mL	IC-PO4-P-1X-1	IC-PO4-P-10X-1
Water Matrix	500 mL	IC-PO4-P-1X-5	IC-PO4-P-10X-5
SO₄-S (Sulfate-Sulfur)	100 mL	IC-SO4-S-1X-1	IC-SO4-S-10X-1
Water Matrix	500 mL	IC-SO4-S-1X-5	IC-SO4-S-10X-5
NH₄-N (Ammonium-Nitrogen)	100 mL	IC-NH4-N-1X-1	IC-NH4-N-10X-1
Water Matrix	500 mL	IC-NH4-N-1X-5	IC-NH4-N-10X-5

Organic Acid Salt Standard

	Unit	100 µg/mL	1000 µg/mL
Formate	100 mL	IC-FORM-1X-1	IC-FORM-10X-1
Water Matrix	500 mL	IC-FORM-1X-5	IC-FORM-10X-5
Acetate	100 mL	IC-ACET-1X-1	IC-ACET-10X-1
Water Matrix	500 mL	IC-ACET-1X-5	IC-ACET-10X-5
Oxalate	100 mL	IC-OXAL-1X-1	IC-OXAL-10X-1
Water Matrix	500 mL	IC-OXAL-1X-5	IC-OXAL-10X-5
Chlorate	100 mL	IC-CHLR-1X-1	IC-CHLR-10X-1
Water Matrix	500 mL	IC-CHLR-1X-5	IC-CHLR-10X-5
Chromate	100 mL	IC-CHRM-1X-1	IC-CHRM-10X-1
Water Matrix	500 mL	IC-CHRM-1X-5	IC-CHRM-10X-5

Anion Single Kits

IC-AN-KIT-R-10X-1-SET	7 x 100 mL
IC-AN-KIT-R-10X-5-SET	7 x 500 mL

Each at 1000 µg/mL

Fluoride
Chloride
Nitrite-Nitrogen
Nitrate-Nitrogen

Bromide
Phosphate-Phosphorous
Sulfate-Sulfur



Method 314.0 Perchlorate in Drinking Water by IC

Perchlorate has become an analyte of environmental interest since being detected in a number of drinking and groundwater supplies located in Midwestern states. EPA method 314.0 was released as an approved method to achieve the required sensitivity.

Perchlorate Standard

IC-PER-10X-1 100 mL
1000 µg/mL in Water
Perchlorate

Conductivity Meter Calibration Standard

M-314.0-CMCS-1 100 mL
1410 µs/cm @ 25 °C in Water

Mixed Common Anion Stock

M-314.0-MCA-250X-1 100 mL
25 mg/mL in Water 3 comps.
Chloride
Sulfate
Carbonate

Method 314.0 Perchlorate Calibration Set

M-314.0-SET 100 mL
IC-PER-10X-1
M-314.0-MCA-250X-1
M-314.0-CMCS-1



Ion Chrom Eluents

0.5 M Sodium bicarbonate (100X concentrate)	50 mL	100 mL	5 x 50 mL	5 x 100 mL
	IC-ELU-01-0.5	IC-ELU-01-1	IC-ELU-01-0.5-PAK	IC-ELU-01-1-PAK
0.5 M Sodium carbonate (100X concentrate)	50 mL	100 mL	5 x 50 mL	5 x 100 mL
	IC-ELU-02-0.5	IC-ELU-02-1	IC-ELU-02-0.5-PAK	IC-ELU-02-1-PAK
0.18 M Sodium carbonate/ 0.17 M Sodium bicarbonate (100X concentrate)	50 mL	100 mL	5 x 50 mL	5 x 100 mL
	IC-ELU-03-0.5	IC-ELU-03-1	IC-ELU-03-0.5-PAK	IC-ELU-03-1-PAK

Technical Note

Easy to use, ready to dilute concentrates. Open a fresh bottle and dilute the volume (50 mL to 5 L or 100 mL to 10 L) and be assured of a fresh uncontaminated mobile phase

These products do not require Hazardous Shipping charges at this time



Ion Chromatography

Anion Mixes

Anion Mix #1

IC-MAN-01-1	100 mL
Water Matrix	5 comps.
F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
NO ₃ (Nitrate)	100 µg/mL
PO ₄ (Phosphate)	150 µg/mL
SO ₄ (Sulfate)	150 µg/mL

Anion Mix #2

IC-MAN-02-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	100 µg/mL
Cl (Chloride)	200 µg/mL
Br (Bromide)	400 µg/mL
NO ₃ (Nitrate)	400 µg/mL
PO ₄ (Phosphate)	600 µg/mL
SO ₄ (Sulfate)	400 µg/mL

Anion Mix #3

IC-MAN-03-1	100 mL
Water Matrix	3 comps.
F (Fluoride)	100 µg/mL
Cl (Chloride)	100 µg/mL
SO ₄ (Sulfate)	100 µg/mL

Anion Mix #4

IC-MAN-04-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	100 µg/mL
Cl (Chloride)	100 µg/mL
Br (Bromide)	100 µg/mL
NO ₃ (Nitrate)	100 µg/mL
PO ₄ (Phosphate)	100 µg/mL
SO ₄ (Sulfate)	100 µg/mL

Anion Mix #5

IC-MAN-05-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	10 µg/mL
Cl (Chloride)	20 µg/mL
Br (Bromide)	20 µg/mL
NO ₃ (Nitrate)	20 µg/mL
PO ₄ (Phosphate)	5 µg/mL
SO ₄ (Sulfate)	30 µg/mL

Anion Mix #6

IC-MAN-06-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	1 µg/mL
Cl (Chloride)	5 µg/mL
Br (Bromide)	5 µg/mL
NO ₃ (Nitrate)	5 µg/mL
PO ₄ (Phosphate)	5 µg/mL
SO ₄ (Sulfate)	10 µg/mL

Technical Note

To enhance the shelf life and long term stability of our IC products, Nitrite has been split out of mixes that contain Nitrate.

Anion Mix #7

IC-MAN-07-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	1 µg/mL
Cl (Chloride)	10 µg/mL
Br (Bromide)	10 µg/mL
NO ₃ (Nitrate)	10 µg/mL
PO ₄ (Phosphate)	10 µg/mL
SO ₄ (Sulfate)	10 µg/mL

Anion Mix #8

IC-MAN-08-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	10 µg/mL
Cl (Chloride)	20 µg/mL
Br (Bromide)	20 µg/mL
NO ₃ (Nitrate)	20 µg/mL
PO ₄ (Phosphate)	20 µg/mL
SO ₄ (Sulfate)	20 µg/mL

Anion Mix #9

IC-MAN-09-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	20 µg/mL
Cl (Chloride)	40 µg/mL
Br (Bromide)	40 µg/mL
NO ₃ (Nitrate)	40 µg/mL
PO ₄ (Phosphate)	40 µg/mL
SO ₄ (Sulfate)	40 µg/mL

Anion Mix #10

IC-MAN-10-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	25 µg/mL
Cl (Chloride)	50 µg/mL
Br (Bromide)	50 µg/mL
NO ₃ (Nitrate)	50 µg/mL
PO ₄ (Phosphate)	50 µg/mL
SO ₄ (Sulfate)	50 µg/mL

IC Anion Set

IC-MAN-CAL-SET

5 units

Contains one each of:

CLP-BLW-5 (500 mL)
IC-MAN-07-R1-1 (100 mL)
IC-MAN-08-R1-1 (100 mL)
IC-MAN-09-R1-1 (100 mL)
IC-MAN-10-R1-1 (100 mL)

Technical Note

This Ready-to-Use set of standards can be used to generate a 5 point calibration curve (including blank)

Technical Note

We offer several Nitrite concentrations that can be added just prior to analysis for maximum stability.

Anion Mix #11

IC-MAN-11-1	100 mL
Water Matrix	5 comps.
Cl (Chloride)	1000 µg/mL
Br (Bromide)	1000 µg/mL
NO ₃ (Nitrate)	1000 µg/mL
PO ₄ (Phosphate)	1000 µg/mL
SO ₄ (Sulfate)	1000 µg/mL

Anion Mix #12

IC-MAN-12-1	100 mL
Water Matrix	5 comps.
Cl (Chloride)	15 µg/mL
Br (Bromide)	15 µg/mL
NO ₃ (Nitrate)	15 µg/mL
PO ₄ (Phosphate)	15 µg/mL
SO ₄ (Sulfate)	15 µg/mL

Anion Mix #13

IC-MAN-13-1	100 mL
Water Matrix	3 comps.
F (Fluoride)	25 µg/mL
Cl (Chloride)	50 µg/mL
SO ₄ (Sulfate)	100 µg/mL

Anion Mix #14

IC-MAN-14-R3-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
NO ₃ (Nitrate)	100 µg/mL
Br (Bromide)	100 µg/mL
PO ₄ (Phosphate)	150 µg/mL
SO ₄ (Sulfate)	150 µg/mL

Anion Mix #14 plus IC-NO2-N-1X is perfect for US EPA Method 300.1

Anion Mix #14 Revised

IC-MAN-14-R2-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
Br (Bromide)	100 µg/mL
N-NO ₃ (Nitrogen-Nitrate)	100 µg/mL
P-PO ₄ (Phosphorus-Phosphate)	150 µg/mL
SO ₄ (Sulfate)	150 µg/mL

Technical Note

This "Determination of Inorganic Anions by Ion Chromatography" and **ASTM D-4327**, "Test Method for Anions in Water by Chemically Suppressed Ion Chromatography."

Nitrite

IC-NO2-10X-1	100 mL
NO ₂ (Nitrite)	1000 µg/mL
IC-NO2-1X-1	100 mL
NO ₂ (Nitrite)	100 µg/mL
IC-NO2-0.1X-1	100 mL
NO ₂ (Nitrite)	10 µg/mL
IC-NO2-N-1X-1	100 mL
NO ₂ (Nitrite)	100 µg/mL

Anion Mix #15

IC-MAN-15-R2-1	100 mL
Water Matrix	3 comps.
F (Fluoride)	100 µg/mL
NO ₃ (Nitrate)	100 µg/mL
PO ₄ (Phosphate)	100 µg/mL

Anion Mix #16

IC-MAN-16-R1-1	100 mL
Water Matrix	6 comps.
F (Fluoride)	100 µg/mL
Cl (Chloride)	200 µg/mL
Br (Bromide)	100 µg/mL
NO ₃ (Nitrate)	20 µg/mL
PO ₄ (Phosphate)	30 µg/mL
SO ₄ (Sulfate)	20 µg/mL

Anion Mix #17

IC-MAN-17-R1-1	100 mL
Water Matrix	5 comps.
Cl (Chloride)	20 µg/mL
Br (Bromide)	12 µg/mL
NO ₃ (Nitrate)	12 µg/mL
PO ₄ (Phosphate)	12 µg/mL
SO ₄ (Sulfate)	80 µg/mL

Anion Mix #18

IC-MAN-18-R1-1	100 mL
Water Matrix	5 comps.
F (Fluoride)	100 µg/mL
Cl (Chloride)	100 µg/mL
NO ₃ (Nitrate)	100 µg/mL
PO ₄ (Phosphate)	100 µg/mL
SO ₄ (Sulfate)	100 µg/mL

Dichloroacetate Surrogate Standard

M-300.1-SS

100 mL

0.5 mg/mL Dichloroacetate in Water

These products do not require Hazardous Shipping charges at this time



Ion Chrom - Cation Singles

Dilute HNO ₃ Matrix	Unit	100 µg/mL Cat. No.	200 µg/mL Cat. No.	1,000 µg/mL Cat. No.
Ca (Calcium)	100 mL	IC-CA-1X-1	IC-CA-2X-1	IC-CA-10X-1
	500 mL	IC-CA-1X-5	IC-CA-2X-5	IC-CA-10X-5
NH ₄ (Ammonium)	100 mL	IC-NH4-1X-1	IC-NH4-2X-1	IC-NH4-10X-1 †
	500 mL	IC-NH4-1X-5	IC-NH4-2X-5	IC-NH4-10X-5 †
Mg (Magnesium)	100 mL	IC-MG-1X-1	IC-MG-2X-1	IC-MG-10X-1
	500 mL	IC-MG-1X-5	IC-MG-2X-5	IC-MG-10X-5
K (Potassium)	100 mL	IC-K-1X-1	IC-K-2X-1	IC-K-10X-1
	500 mL	IC-K-1X-5	IC-K-2X-5	IC-K-10X-5
Na (Sodium)	100 mL	IC-NA-1X-1	IC-NA-2X-1	IC-NA-10X-1
	500 mL	IC-NA-1X-5	IC-NA-2X-5	IC-NA-10X-5
Li (Lithium)	100 mL	IC-LI-1X-1	IC-LI-2X-1	IC-LI-10X-1
	500 mL	IC-LI-1X-5	IC-LI-2X-5	IC-LI-10X-5
Ba (Barium)	100 mL	IC-BA-1X-1	IC-BA-2X-1	IC-BA-10X-1
	500 mL	IC-BA-1X-5	IC-BA-2X-5	IC-BA-10X-5
Sr (Strontium)	100 mL	IC-SR-1X-1	IC-SR-2X-1	IC-SR-10X-1
	500 mL	IC-SR-1X-5	IC-SR-2X-5	IC-SR-10X-5
Sets	8 x 100 mL	IC-CAT-1X-1-SET	IC-CAT-2X-1-SET	IC-CAT-10X-1-SET
Above Listed	8 x 500 mL	IC-CAT-1X-5-SET	IC-CAT-2X-5-SET	IC-CAT-10X-5-SET

† 1,000 µg/mL as Ammonium (NH₄) Other Nitrogen species equivalents are:

NH₃ (Ammonia) = 944 µg/mL
N (Nitrogen) = 776 µg/mL

Ion Chrom - Cation Mixes

Cation Mix #1

IC-MCA-01-1 100 mL
Dilute HNO₃ 6 comps.

Ca (Calcium) 1000 µg/mL
NH₄ (Ammonium) 400 µg/mL
Mg (Magnesium) 200 µg/mL
K (Potassium) 200 µg/mL
Na (Sodium) 200 µg/mL
Li (Lithium) 50 µg/mL

Cation Mix #3

IC-MCA-03-1 100 mL
Dilute HNO₃ 4 comps.

Ca (Calcium) 100 µg/mL
K (Potassium) 100 µg/mL
Na (Sodium) 50 µg/mL
Li (Lithium) 10 µg/mL

Cation Mix #5

IC-MCA-05-1 100 mL
Dilute HNO₃ 4 comps.

NH₄ (Ammonium) 3 µg/mL
K (Potassium) 6 µg/mL
Na (Sodium) 3 µg/mL
Li (Lithium) 0.5 µg/mL

Cation Mix #6

IC-MCA-06-1 100 mL
Dilute HNO₃ 6 comps.

Ca (Calcium) 2 µg/mL
NH₄ (Ammonium) 1.5 µg/mL
Mg (Magnesium) 2 µg/mL
K (Potassium) 2.5 µg/mL
Na (Sodium) 1.5 µg/mL
Li (Lithium) 0.2 µg/mL

Cation Mix #2

IC-MCA-02-1 100 mL
Dilute HNO₃ 6 comps.

Ca (Calcium) 100 µg/mL
NH₄ (Ammonium) 100 µg/mL
Mg (Magnesium) 100 µg/mL
K (Potassium) 100 µg/mL
Na (Sodium) 100 µg/mL
Li (Lithium) 100 µg/mL

Cation Mix #4

IC-MCA-04-1 100 mL
Dilute HNO₃ 4 comps.

Ca (Calcium) 400 µg/mL
Mg (Magnesium) 200 µg/mL
Ba (Barium) 1600 µg/mL
Sr (Strontium) 600 µg/mL



These products do not require Hazardous Shipping charges at this time



Wet Chemicals

Our Wet Chemical Line offers Inorganic Chemists the certified standards they need. All of our Wet Chemical standards are subjected to the same rigorous quality control procedures as our ICP and IC standards.

Each Standard is prepared from the highest quality raw material, according to ASTM, EPA or "Standard Methods" procedures. All the balances used in the preparation are calibrated regularly versus NIST traceable weights.

Each batch of finished standards is then analyzed to verify concentration, against NIST standards where possible. Finally, each batch is packaged for the maximum stability and shelf life so that you receive the best possible product.

1 Standard Methods for the Examination of Water and Wastewater. American Public Health Association, American Water Works Association, Water Environment Federation

Inorganic Non-Metallic Constituents

Many of these methods use classical wet chemical methods to determine the components of either potable or wastewater.

Bromide

IC-BR-10X-1 100 mL
1000 µg/mL Bromide in Water

Method 300.1 Ion Chrom Standard Revised

IC-MAN-14-R2-1 100 mL
Water Matrix 6 comps.
F (Fluoride) 20 µg/mL
Cl (Chloride) 30 µg/mL
Br (Bromide) 100 µg/mL
NO₃-N (Nitrate-Nitrogen) 100 µg/mL
PO₄-P (Phosphate-Phosphorus) 150 µg/mL
SO₄ (Sulfate) 150 µg/mL

Technical Note

This product was designed to more closely meet the EPA standard by having the concentrations for the nutrients calculated back to the element rather than the anion.

Dichloroacetate Surrogate Standard

M-300.1-SS 100 mL
0.5 µg/mL Dichloroacetate in Water



Cyanide

WC-CN-10X-1 Δ 100 mL
1000 µg/mL Cyanide in Water tr. NaOH

Chloride

IC-CL-10X-1 100 mL
1000 µg/mL Chloride in Water

Total Residual Chlorine

WC-TRC-10X-10ML 10 mL
1000 µg/mL Chlorine in Water

Technical Note

This product is shipped in an amber flame sealed ampule for maximum stability.

Fluoride

IC-F-10X-1 100 mL
1000 µg/mL Fluoride in Water

Iodide

IC-I-10X-1 100 mL
1000 µg/mL Iodide in Water

pH

WC-PH-4-1 100 mL
pH of 4.0 in Water
WC-PH-7-1 NEW 100 mL
pH of 7.0 in Water
WC-PH-10-1 NEW 100 mL
pH of 10.0 in Water

Phosphorus - Total

IC-PO4-P-10X-1 100 mL
1000 µg/mL Phosphorus in Water

Technical Note

Can also be used for ortho-phosphate analysis.

Δ Requires a Hazardous Shipping Fee

Technical Note

Nitrogen Species are all calculated back to Nitrogen - Not the Anion or Cation species.

Nitrogen - Ammonium

IC-NH4-N-10X-1 100 mL
1000 µg/mL Ammonium-Nitrogen in Water

Nitrogen - Nitrite

IC-NO2-N-10X-1 100 mL
1000 µg/mL Nitrite-Nitrogen in Water

Nitrogen - Nitrate

IC-NO3-N-10X-1 100 mL
1000 µg/mL Nitrate-Nitrogen in Water

Nitrogen - Total Organic

WC-TON-10X-1 100 mL
1000 µg/mL Total Organic Nitrogen in Water

Silica

WC-SIO2-10X-1 100 mL
1000 µg/mL as Silica (SiO₂) in Water tr. HF

Sulfate

IC-SO4-10X-1 100 mL
1000 µg/mL Sulfate (SO₄) in Water

Physical & Aggregate Properties

These Standards are concerned primarily with measuring actual physical characteristics of a sample as opposed to the chemical characteristics. These analytes are measured frequently in both drinking and waste waters.

Turbidity

WC-TURB-4X-1 100 mL
400 NTU non-ratio Turbidity Standard
A stable solution of microspheres in an aqueous matrix. Can be diluted in turbidity free water to make a calibration curve.
Do not shake prior to use.

Alkalinity

WC-ALK-10X-1 100 mL
1000 µg/L CaCO₃ to pH 4.5

Hardness

WC-HARD-10X-1 100 mL
1000 µg/mL equivalent CaCO₃
A combination of Ca and Mg to give an approximate concentration of 1000 µg/mL CaCO₃.
Hardness µg/mL equivalent CaCO₃ = 2.497 [Ca µg/mL] + 4.118 [Mg µg/mL]

Conductivity

WC-COND-10X-1 100 mL
1000 µmhos in Water

Solids

WC-SOL sample
2 comps.
1000 ppm TSS (Total Suspended Solids) and 1000 ppm TDS (Total Dissolved Solids) for a 2000 ppm TS (Total Solids).
Dilute to 100 mL. Rinse vial and cap several times to recover all solids.

Methylene Blue Activated Substance (MBAS)

WC-MBAS-R1-10X-1 100 mL
1000 µg/mL in Water



Aggregate Organic

Rather than determining individual organic analytes, these Standards are used to determine organic matter in broad categories, based primarily on how they react.

Biochemical Oxygen Demand (BOD)

WC-BOD-10ML 10 mL
100 µg/mL BOD

75 mg/L glucose and 75 mg / L glutamic acid provided in a flame sealed ampule. Dilute to 1L immediately before use.

Conductivity

WC-COND-10X-1 100 mL
1000 µmhos in water

Chemical Oxygen Demand (COD)

WC-COD-5X-10ML 10 mL
500 µg/mL COD in water

Total Organic Carbon (TOC)

WC-TOC-10X-1 100 mL
1000 µg/mL TOC

Total Organic Halides (TOX)

WC-TOX-10X-1 1 mL
WC-TOX-10X-1-PAK 5 x 1 mL
1000 µg/mL MeOH

Oil and Grease

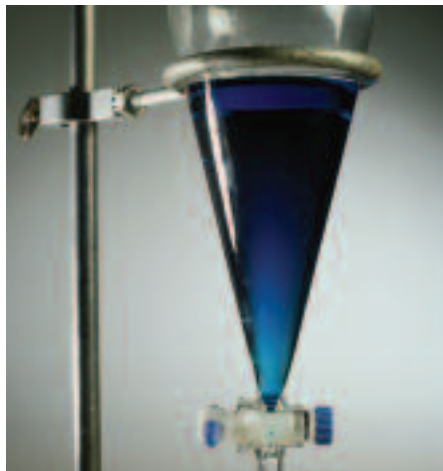
WC-OILG-10X-1 Δ 100 mL
1000 µg/mL Total Oil and Grease in n-Propanol

Contains 500 µg/mL vegetable oil and 500 µg/mL of petroleum oil. Shake well before use.

Phenols

WC-PHEN-10X-1 100 mL
1000 µg/mL Phenol in water.

Δ Requires a Hazardous Shipping Fee





TPH, Oil and Grease

EPA Methods

Method 1664 Oil, Grease & Total Petroleum Hydrocarbon (TPH)

Precision and Recovery (PAR) Spiking Solution

M-1664-5ML		1 x 5 mL
M-1664-5ML-PAK	SAVE	5 x 5 mL
4.0 mg/mL each in Acetone		2 comps.
M-1664-20ML		1 x 20 mL
M-1664-20ML-PAK	SAVE	5 x 20 mL
4.0 mg/mL each in Acetone		2 comps.
Hexadecane	Stearic acid	

Technical Note

This Precision and Recovery (PAR) Spiking Solution was developed for the Method 1664. This performance based method was developed to replace previous gravimetric procedures incorporating Freon-113 as the extraction solvent for the determination of Oil and Grease and Total Petroleum Hydrocarbons. Each standard is packaged in a flame sealed ampule conveniently sized for quality control of the analytical batch.

Method 413.2 & 418.1 Total Petroleum Hydrocarbon Analysis by IR

Oil, Grease & Petroleum Hydrocarbon Concentrates Mix

M-418-CON		1 x 1 mL
% by volume		3 comps.
Chlorobenzene	(25.0)	Hexadecane (37.5)
Isooctane	(37.5)	

Oil, Grease and Petroleum Hydrocarbon Total Recoverable (IR Method)

M-418		1 x 1 mL
M-418-PAK	SAVE	5 x 1 mL
Total 4.15 mg/mL in Freon 113, (Parts by volume)		3 comps.
Chlorobenzene	(10.0)	Isooctane (15.0)
n-Hexadecane	(15.0)	

Method 8440 Total Petroleum Hydrocarbon Analysis

Total Recoverable Petroleum Hydrocarbon Mix

M-8440		1 x 1 mL
M-8440-PAK	SAVE	5 x 1 mL
At stated conc. in Tetrachloroethene		3 comps.
Chlorobenzene	(0.10 w/w %)	Isooctane (0.15 w/w %)
n-Hexadecane	(0.15 w/w %)	

Total Petroleum Hydrocarbon Concentrate Mix

M-8440-CON		1 x 1 mL
M-8440-CON-PAK	SAVE	5 x 1 mL
		3 comps.
Chlorobenzene	(25.0 vol %)	Isooctane (37.5 vol %)
n-Hexadecane	(37.5 vol %)	

Silica Gel Cleanup Calibration Solution

M-8440-SGC		1 x 1 mL
M-8440-SGC-PAK	SAVE	5 x 1 mL
10.0 mg/mL in Tetrachloroethene		
Corn Oil		

Standards of Interest

AccuStandard offers the widest selection of Petroleum standards. These TPH oil analysis standards are a sample of the hundreds in our Fuel and Hydrocarbon section.

Inorganic

Multi-Element Standards

- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials, Water and Acids
- Meets EPA and Customer Applications
- Concentration Verified by Wet Chemical and Instrumental Analysis
- Packaged in Specially prepared Acid Leached Bottles
- Full Documentation

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Quality Control Standards

Quality Control Standards can be used for many different applications. AccuTrace QC Standards are ideal for calibration when performing NPDES monitoring requirements and can be used for standard curve checks, inter-element correction methods, interference checks or any other unique application.

QC Standard #1

QCS-01-1 100 mL
QCS-01-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF 23 comps.

Sb (Antimony)	Mn (Manganese)
As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Cd (Cadmium)	P (Phosphorus)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Sn (Tin)
Fe (Iron)	Ti (Titanium)
Pb (Lead)	V (Vanadium)
Li (Lithium)	Zn (Zinc)
Mg (Magnesium)	

QC Standard #2

QCS-02-1 100 mL
QCS-02-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 7 comps

Al (Aluminum)	100
Ba (Barium)	100
B (Boron)	100
K (Potassium)	1000
Si (Silicon) †	500
Ag (Silver)	50
Na (Sodium)	100

† 1070 µg/mL as SiO₂

QC Standard #2R

QCS-02-R1-1 100 mL
QCS-02-R1-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF 7 comps.

Al (Aluminum)	Si (Silicon) †
Ba (Barium)	Ag (Silver)
B (Boron)	Na (Sodium)
K (Potassium)	

† 214 µg/mL as SiO₂

QC Standard #3

QCS-03-1 100 mL
QCS-03-5 500 mL
 100 µg/mL each in 5% HNO₃ 15 comps.

Al (Aluminum)	Pb (Lead)
Ba (Barium)	Mg (Magnesium)
Cd (Cadmium)	Mn (Manganese)
Ca (Calcium)	Ni (Nickel)
Cr (Chromium)	Na (Sodium)
Co (Cobalt)	Ti (Titanium)
Cu (Copper)	Zn (Zinc)
Fe (Iron)	

QC Standard #4

QCS-04-1 100 mL
 At stated conc. (µg/mL) in 5% HNO₃ 19 comps.

Al (Aluminum)	100
Ba (Barium)	5
Be (Beryllium)	1
Bi (Bismuth)	200
B (Boron)	15
Cd (Cadmium)	20
Cr (Chromium)	25
Co (Cobalt)	20
Cu (Copper)	20
Ga (Gallium)	150
In (Indium)	200
Fe (Iron)	15
Pb (Lead)	200
Mn (Manganese)	5
Ni (Nickel)	50
Ag (Silver)	50
Sr (Strontium)	1
Tl (Thallium)	40
Zn (Zinc)	20

QC Standard #5

QCS-05-1 100 mL
 At stated conc. (µg/mL) in 2% HNO₃ 3 comps.

Li (Lithium)	250
K (Potassium)	10,000
Na (Sodium)	1000

QC Standard #6

QCS-06-1 100 mL
 1000 µg/mL each in 2% HNO₃ 4 comps.

Ba (Barium)	Mg (Magnesium)
Ca (Calcium)	Sr (Strontium)

Quality Control Standards Sets

QCS-1-SET		3 x 100 mL
QCS-01-1	QCS-02-1	QCS-03-1
QCS-5-SET		3 x 500 mL
QCS-01-5	QCS-02-5	QCS-03-5



Second Source QC Standards

These Alternative Source Line Standards exactly match a formulation from another source you may be already using. Our ASL formulations save you the cost of a custom formulation by providing you with true independent lots.

Second Source QC Standard #1

QCS-ASL-7-1 1 x 100 mL
QCS-ASL-7-5 1 x 500 mL
 At stated conc. (µg/mL) in 2-5% HNO₃ tr. HF 7 comps.

Al (Aluminum)	100
Ba (Barium)	100
B (Boron)	100
K (Potassium)	1000
Si (Silicon)	50
Ag (Silver)	100
Na (Sodium)	100

Second Source QC Standard #2

QCS-ASL-21-1 1 x 100 mL
QCS-ASL-21-5 1 x 500 mL
 100 µg/mL each in 2-5% HNO₃ tr. HF 21 comps.

Sb (Antimony)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Be (Beryllium)	Mo (Molybdenum)
Cd (Cadmium)	Ni (Nickel)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	V (Vanadium)
Pb (Lead)	Zn (Zinc)
Li (Lithium)	

- NIST Traceable
- Independent Lots
- Exact Match

Match Other Supplier's Products.
 Use as a **True Second Source.**

These products require a Hazardous Shipping Fee except products marked with an asterisk *



Instrument Check Standards

These instrument check standards are used to verify ICP instrumentation performance over specific wavelength ranges from 160 nm to 790 nm. These standards are ideal for method development, technician training and other calibration uses.

Instrument Check Standard #1

ICS-01-1 100 mL
ICS-01-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 9 comps.

Al (Aluminum)	100
Ba (Barium)	10
Be (Beryllium)	10
B (Boron)	100
Ca (Calcium)	10
Ni (Nickel)	100
P (Phosphorus)	1000
Sc (Scandium)	10
Zn (Zinc)	100

Instrument Check Standard #2

ICS-02-1 100 mL
ICS-02-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 7 comps.

Ba (Barium)	50
Be (Beryllium)	20
La (Lanthanum)	20
Mn (Manganese)	20
Ni (Nickel)	20
Sc (Scandium)	20
Zn (Zinc)	20

Instrument Check Standard #3

ICS-03-1 100 mL
ICS-03-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ tr. HF 11 comps.

As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Ni (Nickel)	20
P (Phosphorus)	100
K (Potassium)	100
Sc (Scandium)	20
Na (Sodium)	20
S (Sulfur)	100

Instrument Check Standard #4

ICS-04-1 100 mL
ICS-04-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 12 comps.

Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	10
Cu (Copper)	100
Pb (Lead)	100
Mn (Manganese)	100
Ni (Nickel)	100
P (Phosphorus)	100
K (Potassium)	500
Sc (Scandium)	100
Na (Sodium)	100
Zn (Zinc)	100

Instrument Check Standard #5

ICS-05-1 100 mL
ICS-05-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 15 comps.

Al (Aluminum)	100
As (Arsenic)	100
Cd (Cadmium)	100
Cr (Chromium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	100
Pb (Lead)	100
Mg (Magnesium)	100
Mn (Manganese)	100
Ni (Nickel)	100
K (Potassium)	100
Na (Sodium)	100
Y (Yttrium)	600
Zn (Zinc)	100

Instrument Check Standard #6

ICS-06-1 100 mL
ICS-06-5 500 mL
50 µg/mL each in 2% HNO₃ 9 comps.

Al (Aluminum)	Pb (Lead)
As (Arsenic)	P (Phosphorus)
Cr (Chromium)	K (Potassium)
Co (Cobalt)	Na (Sodium)
Cu (Copper)	

Instrument Check Standard #7

ICS-07-1 100 mL
ICS-07-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 7 comps.

Al (Aluminum)	50
Ba (Barium)	50
Cd (Cadmium)	50
Cu (Copper)	50
Mn (Manganese)	50
K (Potassium)	500
Zn (Zinc)	50

Screening Standards

These three Qualitative Standards can be combined to scan samples quickly and easily for elements present. They should be used for element identification only. The concentration of each element is approximately 10 µg/mL. To screen for all 69 elements these 3 semi-quantitative standards can be blended together and used immediately.

Semi-Quantitative Standard #1

SQS-01-1 1 x 100 mL
10 µg/mL each in 2-5% HNO₃ tr. HF 33 comps.

Al (Aluminum)	Na (Sodium)
As (Arsenic)	Nd (Neodymium)
Ba (Barium)	P (Phosphorus)
Bi (Bismuth)	Pb (Lead)
Ca (Calcium)	Pr (Praseodymium)
Cd (Cadmium)	Sc (Scandium)
Ce (Cerium)	Se (Selenium)
Dy (Dysprosium)	Sm (Samarium)
Er (Erbium)	Sr (Strontium)
Eu (Europium)	Tb (Terbium)
Ga (Gallium)	Th (Thorium)
Gd (Gadolinium)	Tl (Thallium)
Ho (Holmium)	Tm (Thulium)
In (Indium)	U (Uranium)
La (Lanthanum)	Y (Yttrium)
Lu (Lutetium)	Yb (Ytterbium)
Mg (Magnesium)	

Semi-Quantitative Standard #2

SQS-02-1 1 x 100 mL
10 µg/mL each in 2-5% HNO₃ tr. HCl tr. HF 34 comps.

Au (Gold)	Pd (Palladium)
B (Boron)	Pt (Platinum)
Be (Beryllium)	Rb (Rubidium)
Co (Cobalt)	Re (Rhenium)
Cr (Chromium)	Rh (Rhodium)
Cs (Cesium)	Ru (Ruthenium)
Cu (Copper)	S (Sulfur)
Fe (Iron)	Sb (Antimony)
Ge (Germanium)	Si (Silicon)
Hf (Hafnium)	Sn (Tin)
Ir (Iridium)	Ta (Tantalum)
K (Potassium)	Te (Tellurium)
Li (Lithium)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)
Mo (Molybdenum)	W (Tungsten)
Nb (Niobium)	Zn (Zinc)
Ni (Nickel)	Zr (Zirconium)

Semi-Quantitative Standard #3

SQS-03-1 1 x 100 mL
10 µg/mL each in 2-5% HNO₃ 2 comps.

Hg (Mercury)	Ag (Silver)
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- 69 Elements in Three Mixes
- Economical ■ Easy to Use

Technical Note

To verify screening results, use single element standards to confirm and quantify the concentration.



SDWA Standards

For use in SW-846, Method 1310 and U.S. NPDWR 40CFR Part 141. The three Drinking Water Standards are used for monitoring drinking water and/or ground and surface water.

Primary Drinking Water Metals

SDWA-01-1	100 mL
SDWA-01-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃ 7 comps.	

As (Arsenic)	10
Ba (Barium)	100
Cd (Cadmium)	5
Cr (Chromium)	10
Pb (Lead)	10
Se (Selenium)	5
Ag (Silver)	10

Secondary Drinking Water Metals

SDWA-02-1	100 mL
SDWA-02-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃ 4 comps.	

Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5
Zn (Zinc)	500

Mercury Solution

SDWA-03-1	100 mL
SDWA-03-5	500 mL
10 µg/mL in 5% HNO ₃	

Hg (Mercury)

Drinking Water Sets

SDWA-1-SET		3 x 100 mL
SDWA-01-1	SDWA-02-1	SDWA-03-1
SDWA-5-SET		3 x 500 mL
SDWA-01-5	SDWA-02-5	SDWA-03-5

Standards for Analytes covered in the Safe Drinking Water Act (SDWA)

Primary Metals for Analysis by ICP

Contains all approved elements

SDWA-04-1	100 mL
SDWA-04-5	500 mL
At stated conc. (µg/mL) in 2-5% HNO ₃ 9 comps.	

As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Ni (Nickel)	10
Na (Sodium)	100

Primary Metals for Analysis by ICP-MS

Contains all approved elements

SDWA-06-MS-1	100 mL
SDWA-06-MS-5	500 mL
10 µg/mL each in 2% HNO ₃ 11 comps.	

Sb (Antimony)	Cu (Copper)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Tl (Thallium)
Cr (Chromium)	

Secondary Metals for Analysis by GFAA/ICP/ICP-MS

SDWA-08-1	100 mL
SDWA-08-5	500 mL
At stated conc. (µg/mL) in 2-5% HNO ₃ 5 comps.	

Al (Aluminum)	10
Fe (Iron)	100
Mn (Manganese)	10
Ag (Silver)	10
Zn (Zinc)	10

Primary Metals for Analysis by GFAA

Contains GFAA approved elements

SDWA-05-1	100 mL
SDWA-05-5	500 mL
10 µg/mL each in 2-5% HNO ₃ 9 comps.	

Sb (Antimony)	Pb (Lead)
As (Arsenic)	Ni (Nickel)
Cd (Cadmium)	Se (Selenium)
Cr (Chromium)	Tl (Thallium)
Cu (Copper)	

Primary Metals for Analysis by GFAA/ICP/ICP-MS

SDWA-07-1	100 mL
SDWA-07-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃ tr. HF 14 comps.	

Sb (Antimony)	100
As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Pb (Lead)	10
Ni (Nickel)	10
Se (Selenium)	10
Si (Silicon) †	100
Na (Sodium)	100
Tl (Thallium)	10

† 214 µg/mL as SiO₂

Primary & Secondary Metals for Analysis by GFAA/ICP/ICP-MS

Contains all Primary & Secondary Metals

SDWA-09-1	100 mL
SDWA-09-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃ 19 comps.	

Al (Aluminum)	10
Sb (Antimony)	100
As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Pb (Lead)	10
Mn (Manganese)	10
Ni (Nickel)	10
Se (Selenium)	10
Si (Silicon) †	100
Ag (Silver)	10
Na (Sodium)	100
Tl (Thallium)	10
Zn (Zinc)	10

† 214 µg/mL as SiO₂

These products require a Hazardous Shipping Fee except products marked with an asterisk *



Groundwater & Wastewater Standards

Trace Metals I, II, III

Trace Metals I

WPTM-01-1 100 mL
WPTM-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 15 comps.

Al (Aluminum)	500
As (Arsenic)	100
Be (Beryllium)	100
Cd (Cadmium)	25
Cr (Chromium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	100
Pb (Lead)	100
Mn (Manganese)	100
Hg (Mercury)	5
Ni (Nickel)	100
Se (Selenium)	25
V (Vanadium)	250
Zn (Zinc)	100

Trace Metals II

WPTM-02-1 100 mL
WPTM-02-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 3 comps.

Sb (Antimony)	20
Ag (Silver)	10
Tl (Thallium)	20

Trace Metals III

WPTM-03-1 100 mL
WPTM-03-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 6 comps.

Ba (Barium)	500
Ca (Calcium)	500
Mg (Magnesium)	100
Mo (Molybdenum)	500
K (Potassium)	100
Na (Sodium)	500

Trace Metal Sets

WPTM-1-SET 3 x 100 mL
 WPTM-01-1 WPTM-03-1
 WPTM-02-1

WPTM-5-SET 3 x 500 mL
 WPTM-01-5 WPTM-03-5
 WPTM-02-5

Alternate Metals for Groundwater and Wastewater Analysis

Alternate Metals I

WPAM-01-1 100 mL
WPAM-01-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 11 comps.

Al (Aluminum)	20
Sb (Antimony)	5
Be (Beryllium)	5
Co (Cobalt)	10
Cu (Copper)	10
Fe (Iron)	20
Mn (Manganese)	10
Ni (Nickel)	10
Tl (Thallium)	5
V (Vanadium)	20
Zn (Zinc)	10

Alternate Metals III

WPAM-03-1 100 mL
WPAM-03-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Ca (Calcium)	500
Mg (Magnesium)	100
K (Potassium)	100
Na (Sodium)	500

Alternate Trace Metal Sets

WPAM-1-SET 2 x 100 mL
 WPAM-01-1 WPAM-03-1

WPAM-5-SET 2 x 500 mL
 WPAM-01-5 WPAM-03-5

TCLP Multi-Element Calibration Standards

For use in SW-846, Method 1311 Toxicity Characteristic Leaching Procedure

TCLP Standard #1

TCLP-01-1 100 mL
TCLP-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 7 comps.

As (Arsenic)	25
Ba (Barium)	500
Cd (Cadmium)	5
Cr (Chromium)	25
Pb (Lead)	25
Se (Selenium)	5
Ag (Silver)	25

TCLP Standard for ICP

TCLP-ICP-1 100 mL
TCLP-ICP-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Ba (Barium)	500
Cd (Cadmium)	5
Cr (Chromium)	25
Ag (Silver)	25

TCLP Standard for GFAA

TCLP-GFAA-1 100 mL
TCLP-GFAA-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 3 comps.

As (Arsenic)	25
Pb (Lead)	25
Se (Selenium)	5

TCLP Standard #2

For Mercury Analysis using ICP or Cold Vapor AA

TCLP-02-1 100 mL
TCLP-02-5 500 mL
 20 µg/mL in 5% HNO₃

Hg (Mercury)



ICP

MISA Test Group 29

MISA Test Group 29 Analysis Calibration Standards

For use in MISA Test Group 29 Analysis or general use standards. Set of six standards contains 69 elements at 100 µg/mL each. Ideal for the laboratory that wants to analyze for everything.

MISA Standard 1

Rare Earth Metals

MISA-01-1 100 mL
100 µg/mL each in 5% HNO₃ 18 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sc (Scandium)
Er (Erbium)	Sm (Samarium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	U (Uranium)
Lu (Lutetium)	Yb (Ytterbium)
Nd (Neodymium)	Y (Yttrium)

MISA Standard 2

Precious Metals

MISA-02-1 100 mL
100 µg/mL each in 10% HCl 6 comps.

Au (Gold)	Pt (Platinum)
Ir (Iridium)	Rh (Rhodium)
Pd (Palladium)	Ru (Ruthenium)

MISA Standard 3

Tellurium

MISA-03-1 100 mL
100 µg/mL in 10% HCl

Te (Tellurium)

MISA Standard 4

Alkali, Alkaline Earth, Non-Transition Group

MISA-04-1 100 mL
100 µg/mL each in 10% HNO₃ 16 comps.

Al (Aluminum)	In (Indium)
As (Arsenic)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	K (Potassium)
Bi (Bismuth)	Rb (Rubidium)
Ca (Calcium)	Se (Selenium)
Cs (Cesium)	Na (Sodium)
Ga (Gallium)	Sr (Strontium)

MISA Standard 5

Fluoride Soluble Group

MISA-05-1 100 mL
100 µg/mL each in 5% HNO₃ tr. HF 15 comps.

Sb (Antimony)	Si (Silicon)
B (Boron)	S (Sulfur)
Ge (Germanium)	Ta (Tantalum)
Hf (Hafnium)	Sn (Tin)
Mo (Molybdenum)	Ti (Titanium)
Nb (Niobium)	W (Tungsten)
P (Phosphorus)	Zr (Zirconium)
Re (Rhenium)	

MISA Standard 6

Transition Metals

MISA-06-1 100 mL
100 µg/mL each in 10% HNO₃ 13 comps.

Cd (Cadmium)	Hg (Mercury)
Co (Cobalt)	Ni (Nickel)
Cu (Copper)	Ag (Silver)
Cr (Chromium)	Tl (Thallium)
Fe (Iron)	V (Vanadium)
Pb (Lead)	Zn (Zinc)
Mn (Manganese)	

MISA Calibration Set

MISA-1-SET	6 x 100 mL		
MISA-01-1	MISA-03-1	MISA-05-1	
MISA-02-1	MISA-04-1	MISA-06-1	

Calibration and Matrix Blanks

Nitric Acid Blank

CLP-BLN-5 500 mL
CLP-BLN-L-SET L (2 x 500 mL)

5% HNO₃ in ASTM Type I Water

Water Blank

CLP-BLW-5 * 500 mL
CLP-BLW-L-SET * L (2 x 500 mL)

ASTM Type I Water

Hydrochloric Acid Blank

CLP-BLH-5 500 mL
CLP-BLH-L-SET L (2 x 500 mL)

5% HCl in ASTM Type I Water

Mixed Acid Blank

CLP-BLMA-5 500 mL
CLP-BLMA-L-SET L (2 x 500 mL)

5% HCl + 1% HNO₃ in ASTM Type I Water



These products require a Hazardous Shipping Fee except products marked with an asterisk *



Calibration Check Standards

Calibration Standard #1

CLP-CAL-01-1 100 mL
5000 µg/mL each in 5% HNO₃ 4 comps.

Ca (Calcium) K (Potassium)
Mg (Magnesium) Na (Sodium)

Calibration Standard #2

CLP-CAL-02-1 100 mL
At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Cr (Chromium) 100
Mn (Manganese) 150
Ni (Nickel) 400
Ag (Silver) 100
Zn (Zinc) 200

CLP Calibration Standard Set

CLP-CAL-1-SET 7 x 100 mL
CLP-CAL-01 CLP-CAL-05
CLP-CAL-02 CLP-CAL-06
CLP-CAL-03 CLP-CAL-07
CLP-CAL-04

Calibration Standard #3

CLP-CAL-03-1 100 mL
At stated conc. (µg/mL) in 5% HNO₃ 7 comps.

Al (Aluminum) 2000
Ba (Barium) 2000
Be (Beryllium) 50
Co (Cobalt) 500
Cu (Copper) 250
Fe (Iron) 1000
V (Vanadium) 500

Calibration Standard #4

CLP-CAL-04-1 100 mL
At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

As (Arsenic) 100
Cd (Cadmium) 50
Pb (Lead) 50
Se (Selenium) 50
Tl (Thallium) 100

Calibration Standard #5

CLP-CAL-05-1 100 mL
600 µg/mL in 2% HNO₃

Sb (Antimony)

Calibration Standard #6

CLP-CAL-06-1 100 mL
100 µg/mL in 5% HNO₃

Hg (Mercury)

Calibration Standard #7

CLP-CAL-07-1 * 100 mL
500 µg/mL each in 5% HNO₃ tr. HF 3 comps.

B (Boron) Si (Silicon)
Mo (Molybdenum)

Calibration and Matrix Blanks

Nitric Acid Blank

CLP-BLN-5 500 mL
CLP-BLN-L-SET L (2 x 500 mL)

5% HNO₃ in ASTM Type I Water

Water Blank

CLP-BLW-5 * 500 mL
CLP-BLW-L-SET * L (2 x 500 mL)

ASTM Type I Water

Hydrochloric Acid Blank

CLP-BLH-5 500 mL
CLP-BLH-L-SET L (2 x 500 mL)

5% HCl in ASTM Type I Water

Mixed Acid Blank

CLP-BLMA-5 500 mL
CLP-BLMA-L-SET L (2 x 500 mL)

5% HCl + 1% HNO₃ in ASTM Type I Water



Technical Note

D5600 Ready-to-Aspirate Standards

AccuStandard has formulated the following stock standards for ASTM Method D5600. We have prepared numerous **Ready-to-Aspirate** ICP multi-element solutions. Should your company want to eliminate the preparation process for Inorganic standards contact our Technical Department for a quote on a **Ready-to-Aspirate** working level Inorganic standard.



Verification Standards

Initial Calibration Verification

CLP-ICV-01-1 100 mL
 CLP-ICV-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Al (Aluminum)	200
Sb (Antimony)	60
As (Arsenic)	10
Ba (Barium)	200
Be (Beryllium)	5
Cd (Cadmium)	5
Ca (Calcium)	5000
Cr (Chromium)	10
Co (Cobalt)	50
Cu (Copper)	25
Fe (Iron)	100
Pb (Lead)	5
Mg (Magnesium)	5000
Mn (Manganese)	15
Ni (Nickel)	40
K (Potassium)	5000
Se (Selenium)	5
Ag (Silver)	10
Na (Sodium)	5000
Tl (Thallium)	10
V (Vanadium)	50
Zn (Zinc)	20

Initial Calibration Verification

CLP-ICV-01-R-1 100 mL
 CLP-ICV-01-R-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Al (Aluminum)	200
Sb (Antimony)	60
As (Arsenic)	10
Ba (Barium)	200
Be (Beryllium)	5
Cd (Cadmium)	5
Ca (Calcium)	500
Cr (Chromium)	10
Co (Cobalt)	50
Cu (Copper)	25
Fe (Iron)	100
Pb (Lead)	5
Mg (Magnesium)	500
Mn (Manganese)	15
Ni (Nickel)	40
K (Potassium)	500
Se (Selenium)	5
Ag (Silver)	10
Na (Sodium)	500
Tl (Thallium)	10
V (Vanadium)	50
Zn (Zinc)	20

Continuing Calibration Verification

(Meets CLP QA Second Source Requirements)
 CLP-CCV-01-1 100 mL
 CLP-CCV-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

Al (Aluminum)	1000
Ba (Barium)	1000
Be (Beryllium)	25
Ca (Calcium)	2500
Cr (Chromium)	50
Co (Cobalt)	250
Cu (Copper)	125
Fe (Iron)	500
Mg (Magnesium)	2500
Mn (Manganese)	75
Ni (Nickel)	200
K (Potassium)	2500
Ag (Silver)	50
Na (Sodium)	2500
V (Vanadium)	250
Zn (Zinc)	100

CLP-CCV-02-1 100 mL
 CLP-CCV-02-5 500 mL
 At stated conc. (µg/mL)s in 5% HNO₃ 5 comps.

As (Arsenic)	50
Cd (Cadmium)	25
Pb (Lead)	25
Se (Selenium)	25
Tl (Thallium)	50

CLP-CCV-03-1 100 mL
 CLP-CCV-03-5 500 mL
 300 µg/mL in 2% HNO₃

Sb (Antimony)

Continuing Calibration Verification Standard Sets

CLP-CCV-1-SET 3 x 100 mL
 CLP-CCV-01-1 CLP-CCV-03-1
 CLP-CCV-02-1

CLP-CCV-5-SET 3 x 500 mL
 CLP-CCV-01-5 CLP-CCV-03-5
 CLP-CCV-02-5

Initial & Continuing Calibration Verification Sets

CLP-VER-1-SET 4 x 100 mL
 CLP-ICV-01-1 CLP-CCV-02-1
 CLP-CCV-01-1 CLP-CCV-03-1

CLP-VER-5-SET 4 x 500 mL
 CLP-ICV-01-5 CLP-CCV-02-5
 CLP-CCV-01-5 CLP-CCV-03-5

Technical Note

CLP-ICV-01-R has the Ca, Mg, K & Na at 1/10 the concentration of CLP-ICV-01. This improves plasma robustness and often results in superior recoveries.

Initial & Continuing Calibration Revised Verification Sets

CLP-VER-R-1-SET 4 x 100 mL
 CLP-ICV-01-R-1 CLP-CCV-02-1
 CLP-CCV-01-1 CLP-CCV-03-1

CLP-VER-R-5-SET 4 x 500 mL
 CLP-ICV-01-R-5 CLP-CCV-02-5
 CLP-CCV-01-5 CLP-CCV-03-5

Spiking Standards

Spiking Solution

CLP-SPS-01-1 100 mL
 At stated conc. (µg/mL) in 5% HNO₃ 18 comps.

Al (Aluminum)	200
Sb (Antimony)	50
As (Arsenic)	200
Ba (Barium)	200
Be (Beryllium)	5
Cd (Cadmium)	5
Cr (Chromium)	20
Co (Cobalt)	50
Cu (Copper)	25
Fe (Iron)	100
Pb (Lead)	50
Mn (Manganese)	50
Ni (Nickel)	50
Se (Selenium)	200
Ag (Silver)	5
Tl (Thallium)	200
V (Vanadium)	50
Zn (Zinc)	50

CLP Soil Spiking Solution

CLP-SPS-02-1 100 mL
 At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

Sb (Antimony)	100
As (Arsenic)	400
Ba (Barium)	400
Be (Beryllium)	10
Cd (Cadmium)	10
Cr (Chromium)	40
Co (Cobalt)	100
Cu (Copper)	50
Pb (Lead)	100
Mn (Manganese)	100
Ni (Nickel)	100
Se (Selenium)	400
Ag (Silver)	10
Tl (Thallium)	400
V (Vanadium)	100
Zn (Zinc)	100

Technical Note

Spiking solution CLP-SPS-01 can be used for both aqueous and solid samples. An additional spiking solution for soil as outlined in CLP SOW ILM03.0 is also available, CLP-SPS-02.

CLP Spiking Set

CLP-SPS-1-SET 2 x 100 mL
 CLP-SPS-01-1
 CLP-SPS-02-1

These products require a Hazardous Shipping Fee except products marked with an asterisk *



Interference Check & Analyte Standards

The common interferents checked for by CLP requirements and their associated analytes are listed in our primary interferent analyte solutions. Occasionally, additional interferents may cause other analytical problems according to CLP SOW ILM03.0. These additional six elements are available with their respective analytes in the alternate interferent/analyte solutions.

Primary Analytes

CLP-PAN-01-1 100 mL
CLP-PAN-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 12 comps.

Ag (Silver)	100
Ba (Barium)	50
Be (Beryllium)	50
Cd (Cadmium)	100
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
Mn (Manganese)	50
Ni (Nickel)	100
Pb (Lead)	100
V (Vanadium)	50
Zn (Zinc)	100

Alternate Interferents

CLP-PIN-02-1 100 mL
CLP-PIN-02-5 500 mL
 1000 µg/mL each in 5% HNO₃ 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Interferent / Analyte Sets

CLP-IA-1-SET 4 x 100 mL

CLP-PIN-01-1	CLP-PIN-02-1
CLP-PAN-01-1	CLP-PAN-02-1

CLP-IA-5-SET 4 x 500 mL

CLP-PIN-01-5	CLP-PIN-02-5
CLP-PAN-01-5	CLP-PAN-02-5

Alternate Analytes

CLP-PAN-02-1 100 mL
CLP-PAN-02-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 12 comps.

Al (Aluminum)	100
Sb (Antimony)	100
As (Arsenic)	100
B (Boron)	100
Ca (Calcium)	10
Fe (Iron)	10
Mg (Magnesium)	10
Mo (Molybdenum)	100
Se (Selenium)	100
Si (Silicon)	10
Na (Sodium)	100
Tl (Thallium)	100

Primary Interferents

CLP-PIN-01-1 100 mL
CLP-PIN-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Fe (Iron)	2000
Mg (Magnesium)	5000

Detection Limit Standards

Contract Required Detection Limits (CRDL) Standard Solutions. We offer the flexibility of two convenient solutions:

CLP Detection Limits Standard #1

CLP-CRDL-01-1 100 mL
 At stated conc. (µg/mL) in 5% HNO₃ 15 comps.

Sb (Antimony)	120
As (Arsenic)	120
Be (Beryllium)	10
Cd (Cadmium)	10
Cr (Chromium)	20
Co (Cobalt)	100
Cu (Copper)	50
Pb (Lead)	120
Mn (Manganese)	30
Ni (Nickel)	80
Se (Selenium)	120
Ag (Silver)	20
Tl (Thallium)	120
V (Vanadium)	100
Zn (Zinc)	40

Contract Required Detection Limits (CRDL) Set

CLP-CRDL-1-SET 2 x 100 mL

CLP-CRDL-01
CLP-CRDL-02

Technical Note

These standards are prepared to meet the requirements of the CLP protocol; Arsenic (As), Lead (Pb), Selenium (Se) and Thallium (Tl) are at a concentration of two times the instrument detection limit (IDL) while the remaining elements are at two times the CRDL.

CLP Detection Limits Standard #2

CLP-CRDL-02-1 100 mL
 At stated conc. (µg/mL) in 5% HNO₃ 15 comps.

Sb (Antimony)	120
As (Arsenic)	20
Be (Beryllium)	10
Cd (Cadmium)	10
Cr (Chromium)	20
Co (Cobalt)	100
Cu (Copper)	50
Pb (Lead)	6
Mn (Manganese)	30
Ni (Nickel)	80
Se (Selenium)	10
Ag (Silver)	20
Tl (Thallium)	20
V (Vanadium)	100
Zn (Zinc)	40

Technical Note

These standards are designed for ICPs equipped with ultrasonic nebulizers and they offer the elements of interest at two times the CRDL level.



ICP

EPA Method 200.7

SW-846, Method 200.7 & 6010 Calibration Standards

Mixed Calibration Standard #1

MCS-01-1 100 mL
MCS-01-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 6 comps.

Be (Beryllium)	50
Cd (Cadmium)	150
Pb (Lead)	500
Mn (Manganese)	100
Se (Selenium)	200
Zn (Zinc)	150

Mixed Calibration Standard #2

MCS-02-1 100 mL
MCS-02-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 5 comps.

Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	10,000
V (Vanadium)	100

Complete 6010B, Rev. 2, 1996 Calibration Set

MCS-1996-1-SET 7 x 100 mL
 MCS-01-1 MCS-04R-1 MCS-06R-1
 MCS-02-1 MCS-05R-1 TCLP-02-1
 MCS-03R-1

MCS-1996-5-SET 7 x 500 mL
 MCS-01-5 MCS-04R-5 MCS-06R-5
 MCS-02-5 MCS-05R-5 TCLP-02-5
 MCS-03R-5

Mixed Calibration Standard #3R

MCS-03R-1 100 mL
MCS-03R-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ tr. HF 2 comps.

As (Arsenic)	500
Mo (Molybdenum)	100

Mixed Calibration Standard #4R

MCS-04R-1 100 mL
MCS-04R-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 8 comps.

Al (Aluminum)	200
Ca (Calcium)	1000
Cr (Chromium)	20
Li (Lithium)	100
Ni (Nickel)	20
K (Potassium)	400
Na (Sodium)	200
Sr (Strontium)	10

Technical Note

Additional Analyte Calibration Standards.
 The use of this Standard Solution (MCS-06R), plus a Mercury Standard (TCLP-02), completes the analyte list for the 1996 Revision 2.

Mixed Calibration Standard #5R

MCS-05R-1 100 mL
MCS-05R-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Sb (Antimony)	200
Mg (Magnesium)	1000
Ag (Silver)	50
Tl (Thallium)	200

Mixed Calibration Standard 6R

MCS-06R-1 100 mL
MCS-06R-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃, tr. HF 5 comps.

P (Phosphorus)	200
Sn (Tin)	200
Ti (Titanium)	100
B (Boron)	50
Si (Silicon) †	100

† 214 µg/mL as SiO₂

Mercury Standard

Mercury is available in a separate solution due to its incompatibility with other elements.

TCLP-02-1 100 mL
TCLP-02-5 500 mL
 20 µg/mL in 5% HNO₃

Hg (Mercury)

Method 200.7 (Revision 4.4, May 1994) Calibration Standards

Mixed Calibration Standard #1

M-200.7-01-1 100 mL
M-200.7-01-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 10 comps.

Sb (Antimony)	50
As (Arsenic)	100
Ba (Barium)	10
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	100
Cu (Copper)	20
Mn (Manganese)	20
Se (Selenium)	50
Ag (Silver)	5

Mixed Calibration Standard #2

M-200.7-02R-1 100 mL
M-200.7-02R-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Li (Lithium)	50
Mo (Molybdenum)	100
K (Potassium)	200
Na (Sodium)	100
Sr (Strontium)	10
Ti (Titanium)	100

Mixed Calibration Standard #3

M-200.7-03R-1 100 mL
M-200.7-03R-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 4 comps.

Ce (Cerium)	20
Co (Cobalt)	20
P (Phosphorus)	100
V (Vanadium)	20

Mixed Calibration Standard #4

M-200.7-04-1 100 mL
M-200.7-04-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 5 comps.

Al (Aluminum)	100
Cr (Chromium)	50
Si (Silicon) †	100
Sn (Tin)	40
Zn (Zinc)	50

† 214 µg/mL as SiO₂

Mixed Calibration Standard #5

M-200.7-05-1 100 mL
M-200.7-05-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Be (Beryllium)	10
Fe (Iron)	100
Pb (Lead)	100
Mg (Magnesium)	100
Ni (Nickel)	20
Tl (Thallium)	50

Mixed Calibration Standards Sets

M-200.7-1-R-SET 5 x 100 mL
 M-200.7-01-1 M-200.7-04-1
 M-200.7-02R-1 M-200.7-05-1
 M-200.7-03R-1

M-200.7-5-R-SET 5 x 500 mL
 M-200.7-01-5 M-200.7-04-5
 M-200.7-02R-5 M-200.7-05-5
 M-200.7-03-5R

These products require a Hazardous Shipping Fee except products marked with an asterisk *



Method 200.7 Instrument Performance Standards

Instrument Performance Check Standard #1

M-200.7-IPC-01-1

100 mL

M-200.7-IPC-01-5

500 mL

At stated conc. (µg/mL) in 5% HNO₃

26 comps.

Al (Aluminum)	20	Li (Lithium)	20
As (Arsenic)	20	Mg (Magnesium)	20
Ba (Barium)	20	Mn (Manganese)	20
Be (Beryllium)	20	Ni (Nickel)	20
B (Boron)	20	P (Phosphorus)	100
Cd (Cadmium)	20	K (Potassium)	100
Ca (Calcium)	20	Se (Selenium)	20
Ce (Cerium)	20	Ag (Silver)	2.5
Cr (Chromium)	20	Na (Sodium)	20
Co (Cobalt)	20	Sr (Strontium)	20
Cu (Copper)	20	Tl (Thallium)	20
Fe (Iron)	20	V (Vanadium)	20
Pb (Lead)	20	Zn (Zinc)	20

Instrument Performance Check Standard #2

M-200.7-IPC-02-1

100 mL

M-200.7-IPC-02-5

500 mL

At stated conc. (µg/mL) in 5% HNO₃ tr. HF
5 comps.

Sb (Antimony)	20
Mo (Molybdenum)	20
Si (Silicon) †	100
Sn (Tin)	20
Ti (Titanium)	20

† 214 µg/mL as SiO₂

Method 200.7 Performance Check, Fortifying Solution & Mercury Standard

Laboratory Performance Check Standard

For use in demonstrating the initial and continuing verification of the calibration curves produced by this method.

LPSCS-01-1

100 mL

LPSCS-01-5

500 mL

At stated conc. (µg/mL) in 5% HNO₃ tr. HF

29 comps.

Al (Aluminum)	20
Sb (Antimony)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Ni (Nickel)	20
P (Phosphorus)	100
K (Potassium)	100
Se (Selenium)	20
Si (Silicon) †	100
Ag (Silver)	5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
Sn (Tin)	20
V (Vanadium)	20
Zn (Zinc)	20

† 214 µg/mL as SiO₂

Laboratory Fortifying Stock Solution

For use in preparing the laboratory fortified blank and the laboratory fortified sample matrix.

LFSS-01-1

100 mL

LFSS-01-5

500 mL

At stated conc. (µg/mL) in 5% HNO₃ tr. HF

25 comps.

Al (Aluminum)	25
Sb (Antimony)	25
As (Arsenic)	25
Ba (Barium)	25
Be (Beryllium)	5
B (Boron)	25
Cd (Cadmium)	10
Cr (Chromium)	25
Co (Cobalt)	10
Cu (Copper)	25
Fe (Iron)	25
Pb (Lead)	25
Li (Lithium)	25
Mn (Manganese)	25
Mo (Molybdenum)	10
Ni (Nickel)	25
P (Phosphorus)	50
Se (Selenium)	25
Si (Silicon) †	25
Ag (Silver)	2.5
Sr (Strontium)	25
Tl (Thallium)	25
Sn (Tin)	10
V (Vanadium)	10
Zn (Zinc)	25

† 53.5 µg/mL as SiO₂

Technical Note

The analytes Ca, K, Mg, and Na are not included in the stock solution because their concentrations vary widely in environmental samples.

Mercury Standard

Mercury is available in a separate solution due to incompatibility with other elements.

TCLP-02-1

100 mL

TCLP-02-5

500 mL

20 µg/mL in 5% HNO₃

Hg (Mercury)



ICP

EPA Method 200.7

Method 200.7 Fortifying (Spiking & Instrument Performance Standards)

These Standards have been split for stability and ease of use. Choose the Instrument Fortifying Standard you require for Part 1 & use with Part 2 to complete the analyte list. For Lab Fortified Blank use M-200.7-LFSS-01, for Water Samples use M-200.7-LFSS-01W, and for Solid Samples use M-200.7-LFSS-01S.

Part 1

Instrument Fortifying Standard

M-200.7-LFSS-01-1 100 mL
M-200.7-LFSS-01-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 26 comps.

Al (Aluminum)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Ce (Cerium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Ni (Nickel)	20
P (Phosphorus)	20
K (Potassium)	500
Se (Selenium)	20
Ag (Silver)	7.5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Instrument Fortifying Standard for Water

M-200.7-LFSS-01W-1 100 mL
M-200.7-LFSS-01W-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Al (Aluminum)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ce (Cerium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mn (Manganese)	20
Ni (Nickel)	20
P (Phosphorus)	20
K (Potassium)	500
Se (Selenium)	20
Ag (Silver)	7.5
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Instrument Fortifying Standard for Solids

M-200.7-LFSS-01S-1 100 mL
M-200.7-LFSS-01S-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 24 comps.

As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Ce (Cerium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Ni (Nickel)	20
P (Phosphorus)	20
K (Potassium)	500
Se (Selenium)	20
Ag (Silver)	7.5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Part 2

Instrument Fortifying Standard #2

M-200.7-LFSS-02-1 100 mL
M-200.7-LFSS-02-5 500 mL
20 µg/mL each in 5% HNO₃ tr. HF 5 comps.

Sb (Antimony)	Sn (Tin)
Mo (Molybdenum)	Ti (Titanium)
Si (Silicon) †	† 42.78 µg/mL as SiO ₂



These products require a Hazardous Shipping Fee except products marked with an asterisk *



Method 200.7 Spiking Solutions for Drinking Water

Spiking Standard #1R

M-200.7-SP-01-R * 50 mL
At stated conc. (µg/mL) in H₂O tr. HF 4 comps.

B (Boron)	400
Mo (Molybdenum)	200
Si (Silicon) †	2000
P (Phosphorus)	400

† 4278 µg/mL SiO₂

Spiking Standard #2R

M-200.7-SP-02-R 50 mL
M-200.7-SP-02-R-1 100 mL
M-200.7-SP-02-R-5 500 mL
10,000 µg/mL each in in 2% HNO₃ 4 comps.

Ca (Calcium)	K (Potassium)
Mg (Magnesium)	Na (Sodium)

Spiking Standard #3

M-200.7-SP-03 50 mL
At stated conc. (µg/mL) in 5% HNO₃ 12 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Be (Beryllium)	50
Cr (Chromium)	200
Co (Cobalt)	500
Cu (Copper)	250
Fe (Iron)	1000
Mn (Manganese)	500
Ni (Nickel)	500
Ag (Silver)	50
V (Vanadium)	500
Zn (Zinc)	500

Spiking Standard #4R

M-200.7-SP-04-R 50 mL
200 µg/mL in dilute HNO₃

Sb (Antimony)

Spiking Standard #5R

M-200.7-SP-05-R 50 mL
At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

As (Arsenic)	200
Cd (Cadmium)	100
Pb (Lead)	200
Se (Selenium)	400
Tl (Thallium)	400

Method 200.7 Spiking Set

M-200.7-SP-R-SET 5 x 50 mL

M-200.7-SP-01-R	M-200.7-SP-04-R
M-200.7-SP-02-R	M-200.7-SP-05-R
M-200.7-SP-03	

Method 200.7 Interference Check Standards

For use in testing and verifying the inter-element spectral correction process.

SIC Solution #1

Used to evaluate the spectral interference for the analytes: Al, Sb, Se, Sn, V

SICS-01-1 100 mL
SICS-01-5 500 mL
50 µg/mL in 2% HNO₃ tr. HF

Mo (Molybdenum)

Check Solutions Sets

SIC-1-SET 3 x 100 mL
SICS-01-1 SICS-03-1
SICS-02-1

SIC-5-SET 3 x 500 mL
SICS-01-5 SICS-03-5
SICS-02-5

SIC Solution #2

Used to evaluate the spectral interference for the analytes: Sb, Pb, Zn, Mo, As, Be

SICS-02-1 100 mL
SICS-02-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 5 comps.

Cr (Chromium)	20
Co (Cobalt)	10
Cu (Copper)	40
Mn (Manganese)	20
V (Vanadium)	10

SIC Solution #3

Used to evaluate the spectral interference for the analytes: Sb, Zn, As, Ag, Cr, Mn, V

SICS-03-1 100 mL
SICS-03-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 3 comps.

Al (Aluminum)	30
Fe (Iron)	150
Ni (Nickel)	20

Since everyone experiences different interference problems in their analysis, it is often easiest to design standards to match the "real world" samples. Below is a set of single element standards that can be used for making these standards in your lab.

Spectral Interference Check Set

Single Elements

SIC-SING-1-SET 9 x 100 mL
Each at 1,000 µg/mL in HNO₃

Al (Aluminum)	Mn (Manganese)
Cr (Chromium)	Mo (Molybdenum)
Co (Cobalt)	Ni (Nickel)
Cu (Copper)	V (Vanadium)
Fe (Iron)	



ICP

EPA Method 6010

Method 6010B (Revision 2, from SW-846) Calibration Standards

Mixed Calibration Standard #1

MCS-01-1 100 mL
MCS-01-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 6 comps.

Be (Beryllium)	50
Cd (Cadmium)	150
Pb (Lead)	500
Mn (Manganese)	100
Se (Selenium)	200
Zn (Zinc)	150

Mixed Calibration Standard #2

MCS-02-1 100 mL
MCS-02-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 5 comps.

Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	10,000
V (Vanadium)	100

Mixed Calibration Standard #3R

MCS-03R-1 100 mL
MCS-03R-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ tr. HF 2 comps.

As (Arsenic)	500
Mo (Molybdenum)	100

Mixed Calibration Standard #4R

MCS-04R-1 100 mL
MCS-04R-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 8 comps.

Al (Aluminum)	200
Ca (Calcium)	1000
Cr (Chromium)	20
Li (Lithium)	100
Ni (Nickel)	20
K (Potassium)	400
Na (Sodium)	200
Sr (Strontium)	10

Mixed Calibration Standard #5R

MCS-05R-1 100 mL
MCS-05R-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Sb (Antimony)	200
Mg (Magnesium)	1000
Ag (Silver)	50
Tl (Thallium)	200

Mixed Calibration Standard 6R

MCS-06R-1 100 mL
MCS-06R-5 500 mL
 At stated conc. (µg/mL) in 2-5% HNO₃, tr. HF 5 comps.

P (Phosphorus)	200
Sn (Tin)	200
Ti (Titanium)	100
B (Boron)	50
Si (Silicon) †	100

† 214 µg/mL as SiO₂

Complete 6010B, Rev. 2, 1996 Calibration Set

MCS-1996-1-SET 7 x 100 mL
 MCS-01-1 MCS-04R-1 MCS-06R-1
 MCS-02-1 MCS-05R-1 TCLP-02-1
 MCS-03R-1

MCS-1996-5-SET 7 x 500 mL
 MCS-01-5 MCS-04R-5 MCS-06R-5
 MCS-02-5 MCS-05R-5 TCLP-02-5
 MCS-03R-5

Technical Note

Additional Analyte Calibration Standards.

The use of this Standard Solution (MCS-06R), plus a Mercury Standard (TCLP-02), completes the analyte list for the 1996 Revision 2.

Mercury Standard

Mercury is available in a separate solution due to its incompatibility with other elements.

TCLP-02-1 100 mL
TCLP-02-5 500 mL

20 µg/mL in 5% HNO₃

Hg (Mercury)

Method 6010B Spiking Standards

Three convenient solutions that can be used for spiking samples pre- or post- digestion.

Spiking Standard #1

QCS-01-1 100 mL
QCS-01-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF 23 comps.

Sb (Antimony)	Mn (Manganese)
As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Cd (Cadmium)	P (Phosphorus)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Sn (Tin)
Fe (Iron)	Ti (Titanium)
Pb (Lead)	V (Vanadium)
Li (Lithium)	Zn (Zinc)
Mg (Magnesium)	

Spiking Standard #2

QCS-02-1 100 mL
QCS-02-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 7 comps.

Al (Aluminum)	100
Ba (Barium)	100
B (Boron)	100
K (Potassium)	1000
Si (Silicon) †	500
Ag (Silver)	50
Na (Sodium)	100

† 1070 µg/mL as SiO₂

QC Standard #2R

QCS-02-R1-1 100 mL
QCS-02-R1-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF 7 comps.

Al (Aluminum)	Ag (Silver)
Ba (Barium)	Na (Sodium)
B (Boron)	
K (Potassium)	† 214 µg/mL as SiO ₂
Si (Silicon) †	

Mercury Standard

Mercury is available in a separate solution due to incompatibility with other elements.

TCLP-02-1 100 mL
TCLP-02-5 500 mL

20 µg/mL in 5% HNO₃

Hg (Mercury)

These products require a Hazardous Shipping Fee except products marked with an asterisk *



Method 6010B (Revision 2 from SW-846, Dec. 1996) Performance and Interference Check Standards

Laboratory Performance Check Standard

LPCS-01R-1 100 mL
LPCS-01R-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ tr. HF

30 comps.

Al (Aluminum)	20
Sb (Antimony)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Ni (Nickel)	20
P (Phosphorous)	100
K (Potassium)	100
Se (Selenium)	20
Si (Silicon) †	100
Ag (Silver)	5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
Sn (Tin)	20
Ti (Titanium)	20
V (Vanadium)	20
Zn (Zinc)	20

† 214 µg/mL as SiO₂

Primary Interferents

CLP-PIN-01-1 100 mL
CLP-PIN-01-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Fe (Iron)	2000
Mg (Magnesium)	5000

Alternate Interferents

CLP-PIN-02-1 100 mL
CLP-PIN-02-5 500 mL
1000 µg/mL each in 5% HNO₃ 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Interference Set

Because interference problems are dependent on the types of sample matrices encountered - it is often easier to create your own set of matrix matching interference check solutions. Therefore, we are offering a set of single element solutions to be used for that purpose.

SIC-SING-R-1-SET set of 10 x 100 mL
10 individual single element standards at 1,000 µg/mL in HNO₃

Al (Aluminum)	Mg (Magnesium)
Ca (Calcium)	Mn (Manganese)
Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	V (Vanadium)

Technical Note

If you would like us to formulate an interference check solution to meet your needs, please call our Technical Service Department for a custom quotation.

Set-up Solutions

Nebulizer Adjustment Solution

ICP-69N-1 100 mL
1000 µg/mL in HNO₃

Y (Yttrium)

Method 6010 (Revision 0, Sept. 1986) Interference Check Standards

Four standard mixtures are available for interference checks in SW-846, Method 6010 (Rev. 0, Sept. 1986) and Method 200.7.

Interference Check Standard #1

INT-01-1 100 mL
INT-01-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 17 comps.

As (Arsenic)	1000
Ba (Barium)	300
Be (Beryllium)	100
Cd (Cadmium)	300
Cr (Chromium)	300
Co (Cobalt)	300
Cu (Copper)	300
Pb (Lead)	1000
Mn (Manganese)	200
Hg (Mercury)	50
Ni (Nickel)	300
K (Potassium)	20,000
Se (Selenium)	500
Ag (Silver)	300
Tl (Thallium)	1000
V (Vanadium)	300
Zn (Zinc)	300

Interference Check Standard #2

INT-02-1 100 mL
INT-02-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ tr. HF 4 comps.

B (Boron)	500
Mo (Molybdenum)	300
Si (Silicon)	200
Ti (Titanium)	1000

Interference Check Standard #3

INT-03-1 * 100 mL
INT-03-5 * 500 mL

500 µg/mL in 2% HNO₃, tr. Tartaric acid

Sb (Antimony)

Interference Check Standard #4

INT-04-1 100 mL
INT-04-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Al (Aluminum)	1200
Ca (Calcium)	6000
Fe (Iron)	5000
Mg (Magnesium)	3000
Na (Sodium)	1000

Interference Check Standards Sets

INT-1986-1-SET 4 x 100 mL

INT-01-1	INT-03-1
INT-02-1	INT-04-1

INT-1986-5-SET 4 x 500 mL

INT-01-5	INT-03-5
INT-02-5	INT-04-5



TCLP Multi-Element Calibration Standards

For use in SW-846, Method 1311 Toxicity Characteristic Leaching Procedure

TCLP Standard #1

TCLP-01-1 100 mL
TCLP-01-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 7 comps.

As (Arsenic)	25
Ba (Barium)	500
Cd (Cadmium)	5
Cr (Chromium)	25
Pb (Lead)	25
Se (Selenium)	5
Ag (Silver)	25

TCLP Standard for ICP

TCLP-ICP-1 100 mL
TCLP-ICP-5 500 mL
At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Ba (Barium)	500
Cd (Cadmium)	5
Cr (Chromium)	25
Ag (Silver)	25

TCLP Standard for GFAA

TCLP-GFAA-1 100 mL
TCLP-GFAA-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 3 comps.

As (Arsenic)	25
Pb (Lead)	25
Se (Selenium)	5

TCLP Standard #2

For Mercury Analysis using ICP or Cold Vapor AA

TCLP-02-1 100 mL
TCLP-02-5 500 mL
20 µg/mL in 5% HNO₃

Hg (Mercury)



AccuStandard leaches its bottles to ensure contaminant-free packaging.



SDWA Standards

For use in SW-846, Method 1310 and U.S. NPDR 40CFR Part 141. The three Drinking Water Standards are used for monitoring drinking water and/or ground and surface water.

Primary Drinking Water Metals

SDWA-01-1 100 mL
SDWA-01-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 7 comps.

As (Arsenic)	10
Ba (Barium)	100
Cd (Cadmium)	5
Cr (Chromium)	10
Pb (Lead)	10
Se (Selenium)	5
Ag (Silver)	10

Secondary Drinking Water Metals

SDWA-02-1 100 mL
SDWA-02-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5
Zn (Zinc)	500

Mercury Solution

SDWA-03-1 100 mL
SDWA-03-5 500 mL
 10 µg/mL in 5% HNO₃

Hg (Mercury)

Set of Drinking Water Standards

SDWA-1-SET 3 x 100 mL
 SDWA-01-1 SDWA-02-1 SDWA-03-1

SDWA-5-SET 3 x 500 mL
 SDWA-01-5 SDWA-02-5 SDWA-03-5

Standards for Analytes covered in the Safe Drinking Water Act (SDWA)

Primary Metals for Analysis by GFAA

Contains GFAA approved elements

SDWA-05-1 100 mL
SDWA-05-5 500 mL
 10 µg/mL each in 2% HNO₃ 9 comps.

Sb (Antimony)	Pb (Lead)
As (Arsenic)	Ni (Nickel)
Cd (Cadmium)	Se (Selenium)
Cr (Chromium)	Tl (Thallium)
Cu (Copper)	

Primary Metals for Analysis by ICP

Contains all approved elements

SDWA-04-1 100 mL
SDWA-04-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 9 comps.

As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Ni (Nickel)	10
Na (Sodium)	100

Primary Metals for Analysis by ICP-MS

Contains all approved elements

SDWA-06-MS-1 100 mL
SDWA-06-MS-5 500 mL
 10 µg/mL each in 2% HNO₃ 11 comps.

Sb (Antimony)	Cu (Copper)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Tl (Thallium)
Cr (Chromium)	

Primary Metals for Analysis by GFAA / ICP / ICP-MS

SDWA-07-1 100 mL
SDWA-07-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ tr. HF 14 comps.

Sb (Antimony)	100
As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Pb (Lead)	10
Ni (Nickel)	10
Se (Selenium)	10
Si (Silicon) †	100
Na (Sodium)	100
Tl (Thallium)	10

† 214 µg/mL as SiO₂

Secondary Metals for Analysis by GFAA / ICP / ICP-MS

SDWA-08-1 100 mL
SDWA-08-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 5 comps.

Al (Aluminum)	10
Fe (Iron)	100
Mn (Manganese)	10
Ag (Silver)	10
Zn (Zinc)	10

Primary & Secondary Metals for Analysis by GFAA/ICP/ICP-MS

Contains all Primary & Secondary Metals

SDWA-09-1 100 mL
SDWA-09-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 19 comps.

Al (Aluminum)	10
Sb (Antimony)	100
As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Pb (Lead)	10
Mn (Manganese)	10
Ni (Nickel)	10
Se (Selenium)	10
Si (Silicon) †	100
Ag (Silver)	10
Na (Sodium)	100
Tl (Thallium)	10
Zn (Zinc)	10

† 214 µg/mL as SiO₂



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AccuStandard has received many requests for the following multi-element standards. We now offer our own version of these popular mixes offered by Merck. Products are made to the same specifications as other mixes in our product line and subject to the same rigorous quality control.

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution I

MES-01-1 100 mL
MES-01-5 500 mL
 At stated conc. (µg/mL) in 1 mol/L HNO₃ 19 comps.

Ag (Silver)	50
Al (Aluminum)	100
B (Boron)	15
Ba (Barium)	5
Be (Beryllium)	1
Bi (Bismuth)	200
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	25
Cu (Copper)	20
Fe (Iron)	15
Ga (Gallium)	150
In (Indium)	200
Mn (Manganese)	5
Ni (Nickel)	50
Pb (Lead)	200
Sr (Strontium)	1
Tl (Thallium)	400
Zn (Zinc)	20

ICP Multi-Element Standard Solution II

MES-02-1 100 mL
MES-02-5 500 mL
 At stated conc. (µg/mL) in 1 mol/L HNO₃ 3 comps.

Li (Lithium)	250
K (Potassium)	10,000
Na (Sodium)	1000

ICP Multi-Element Standard Solution III

MES-03-1 100 mL
MES-03-5 500 mL
 1000 µg/mL each in 1 mol/L HNO₃ 4 comps.

Ba (Barium)	Mg (Magnesium)
Ca (Calcium)	Sr (Strontium)

ICP Multi-Element Standard Solution IV

MES-04-1 100 mL
MES-04-5 500 mL
 1000 µg/mL each in 1 mol/L HNO₃ 23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Ca (Calcium)	Na (Sodium)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Pb (Lead)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

ICP Multi-Element Standard Solution V

MES-05-1-SET 2x100 mL
MES-05-5-SET 2x500 mL
 At stated conc. (µg/mL) in 5% HCl 26 comps.

MES-05	
K (Potassium)	100
Al (Aluminum)	20
As (Arsenic)	20
Na (Sodium)	20
Pb (Lead)	20
Se (Selenium)	20
Ca (Calcium)	20
P (Phosphorus)	20
Te (Tellurium)	20
Ni (Nickel)	5
B (Boron)	2
Ba (Barium)	2
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Fe (Iron)	2
Li (Lithium)	2
Ti (Titanium)	2
Zn (Zinc)	2
Be (Beryllium)	1
Mg (Magnesium)	1
Mn (Manganese)	1
Sc (Scandium)	1
Sr (Strontium)	1
Y (Yttrium)	1

MES-05-HG
 5% HNO₃
 Hg (Mercury) 5
 supplied separately for better stability

ICP Multi-Element Standard Solution VI for MS

MES-06-1-SET 100 mL
MES-06-5-SET 500 mL
 At stated conc. (µg/mL) in 1 mol/L HNO₃ tr. HF 30 comps.

Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	100
B (Boron)	100
Ba (Barium)	10
Be (Beryllium)	100
Bi (Bismuth)	10
Ca (Calcium)	1000
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Ga (Gallium)	10
K (Potassium)	10
Li (Lithium)	10
Mg (Magnesium)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Na (Sodium)	10
Ni (Nickel)	10
Pb (Lead)	10
Rb (Rubidium)	10
Se (Selenium)	100
Sr (Strontium)	10
Tl (Thallium)	10
U (Uranium)	10
V (Vanadium)	10
Zn (Zinc)	100

MES-06-TE
 Te (Tellurium) 10
 supplied separately for better stability in 10% HCl

ICP Multi-Element Standard Solution VII

MES-07-1 * 100 mL
MES-07-5 * 500 mL
 100 µg/mL each in Water tr. HNO₃ 9 comps.

NH ₄ (Ammonium)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Ca (Calcium)	Na (Sodium)
K (Potassium)	Sr (Strontium)
Li (Lithium)	

ICP Multi-Element Standard Solution VIII

MES-08-1-SET 2x100 mL
MES-08-5-SET 2x500 mL
 100 µg/mL each in 1 mol/L HNO₃ 24 comps.

MES-08	
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Mn (Manganese)
Bi (Bismuth)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cd (Cadmium)	Pb (Lead)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

MES-08-TE
 10% HCl
 Te (Tellurium)
 supplied separately for better stability

ICP Multi-Element Standard Solution IX

MES-09-1-SET 2x100 mL
MES-09-5-SET 2x500 mL
 100 µg/mL each in 1 mol/L HNO₃ 8 comps.

MES-09	
As (Arsenic)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Pb (Lead)	Tl (Thallium)
Cr (Chromium)	

MES-09-HG
 Hg (Mercury)
 supplied separately for better stability.

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AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution X

MES-10-1 100 mL
MES-10-5 500 mL
 At stated conc. (µg/mL) in 1 mol/L HNO₃ 23 comps.

Ca (Calcium)	3500
Mg (Magnesium)	1500
Na (Sodium)	800
K (Potassium)	300
B (Boron)	10
Fe (Iron)	10
Mo (Molybdenum)	10
Sr (Strontium)	10
As (Arsenic)	5
Ba (Barium)	5
Ni (Nickel)	5
V (Vanadium)	5
Zn (Zinc)	5
Mn (Manganese)	3
Co (Cobalt)	2.5
Pb (Lead)	2.5
Be (Beryllium)	2
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Bi (Bismuth)	1
Se (Selenium)	1
Tl (Thallium)	1

ICP Multi-Element Standard Solution XI

MES-11-1-SET 2x100 mL
MES-11-5-SET 2x500 mL
 At stated conc. (µg/mL) in 1 mol/L HNO₃ 6 comps.

MES-11	
Cd (Cadmium)	10
Cr (Chromium)	900
Cu (Copper)	800
Ni (Nickel)	200
Pb (Lead)	900
Zn (Zinc)	2500

MES-11-HG
 Hg (Mercury) 8
 supplied separately for better product stability

ICP Multi-Element Standard Solution XII

MES-12-1-SET 2x100 mL
MES-12-5-SET 2x500 mL
 1000 µg/mL each in 5% HCl tr.
 HNO₃ 7 comps.

MES-12-R1
 As (Arsenic) Si (Silicon)
 Mo (Molybdenum) W (Tungsten)
 P (Phosphorus) V (Vanadium)
 S (Sulfur)

MES-12-ZR
 Zr (Zirconium)
 supplied separately for better product stability

ICP Multi-Element Standard Solution XIII

MES-13-1-SET 2x100 mL
MES-13-5-SET 2x500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 15 comps.

MES-13	
Al (Aluminum)	500
As (Arsenic)	100
Be (Beryllium)	100
Cd (Cadmium)	25
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Se (Selenium)	25
V (Vanadium)	250
Zn (Zinc)	100

MES-13-HG
 Hg (Mercury) 5
 supplied separately for better stability

ICP Multi-Element Standard Solution XIV

MES-14-1 100 mL
MES-14-5 500 mL
 At stated conc. (µg/mL) in 2% HCl tr. HNO₃ 11 comps.

P (Phosphorus)	100
S (Sulfur)	100
K (Potassium)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mo (Molybdenum)	20
Mn (Manganese)	20
Ni (Nickel)	20
Sc (Scandium)	20
Na (Sodium)	20

ICP Multi-Element Standard Solution XV

MES-15-1 100 mL
MES-15-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 8 comps.

Element	µg/mL
Ba (Barium)	1
Ca (Calcium)	1
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10

ICP Multi-Element Standard Solution XVI

MES-16-1 100 mL
MES-16-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF 21 comps.

Sb (Antimony)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Be (Beryllium)	Mo (Molybdenum)
Cd (Cadmium)	Ni (Nickel)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	V (Vanadium)
Pb (Lead)	Zn (Zinc)
Li (Lithium)	

ICP Multi-Element Standard Solution XVII

MES-17-1 100 mL
MES-17-5 500 mL
 100 µg/mL each in 15% HCl tr. HNO₃ 7 comps.

Hf (Hafnium)	Ta (Tantalum)
Ir (Iridium)	Ti (Titanium)
Sb (Antimony)	Zr (Zirconium)
Sn (Tin)	

ICP Multi-Element GF AAS Standard Solution XVIII

MES-18-1 100 mL
MES-18-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

Al (Aluminum)	100
As (Arsenic)	100
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
Ba (Barium)	50
Co (Cobalt)	50
Cu (Copper)	50
Ni (Nickel)	50
Cr (Chromium)	20
Fe (Iron)	20
Mn (Manganese)	20
Ag (Silver)	10
Be (Beryllium)	10
Cd (Cadmium)	10

ICP Multi-Element Standard Solution XIX for MS

MES-19-1 100 mL
MES-19-5 500 mL
 1 µg/mL each in 1% HNO₃ 5 comps.

Be (Beryllium)	Tl (Thallium)
Co (Cobalt)	U (Uranium)
In (Indium)	

ICP Multi-Element Standard Solution XX for MS

MES-20-1 100 mL
MES-20-5 500 mL
 1 µg/mL each in 1% HNO₃ 11 comps.

Mg (Magnesium)	Tl (Thallium)
Cu (Copper)	Ce (Cerium)
Cd (Cadmium)	Ge (Germanium)
Pb (Lead)	Tb (Terbium)
Sc (Scandium)	Ba (Barium)
Rh (Rhodium)	

ICP Multi-Element Standard Solution XXI for MS

MES-21-1-SET 2x100 mL
MES-21-5-SET 2x500 mL
 10 µg/mL each in 5% HNO₃ 30 comps.

MES-21	In (Indium)
Ag (Silver)	K (Potassium)
Al (Aluminum)	Li (Lithium)
As (Arsenic)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Be (Beryllium)	Na (Sodium)
Bi (Bismuth)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	V (Vanadium)
Fe (Iron)	U (Uranium)
Ga (Gallium)	Zn (Zinc)

MES-21-HG
 Hg (Mercury) 10
 supplied separately for better product stability

ICP Multi-Element Standard Solution XXII for MS

MES-22-1 100 mL
MES-22-5 500 mL
 2 µg/mL each in 2% HNO₃ 5 comps.

Cd (Cadmium)	Pb (Lead)
Cu (Copper)	Rh (Rhodium)
Mg (Magnesium)	

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ICP

Alternate Source

AccuStandard is now offering calibration and testing standards for individual instruments. The Alternate Source Line (ASL) formulations match product from:

■ Varian

■ Agilent

■ JY (Jobin Yvon)

■ Perkin Elmer (PE)

■ Teledyne (Leeman Labs)

All of these products have been carefully formulated to be used for specific instrument setup and verification.



AccuStandard equivalent of Varian Calibration Solutions

Varian ICP Wavelength Calibration Solution

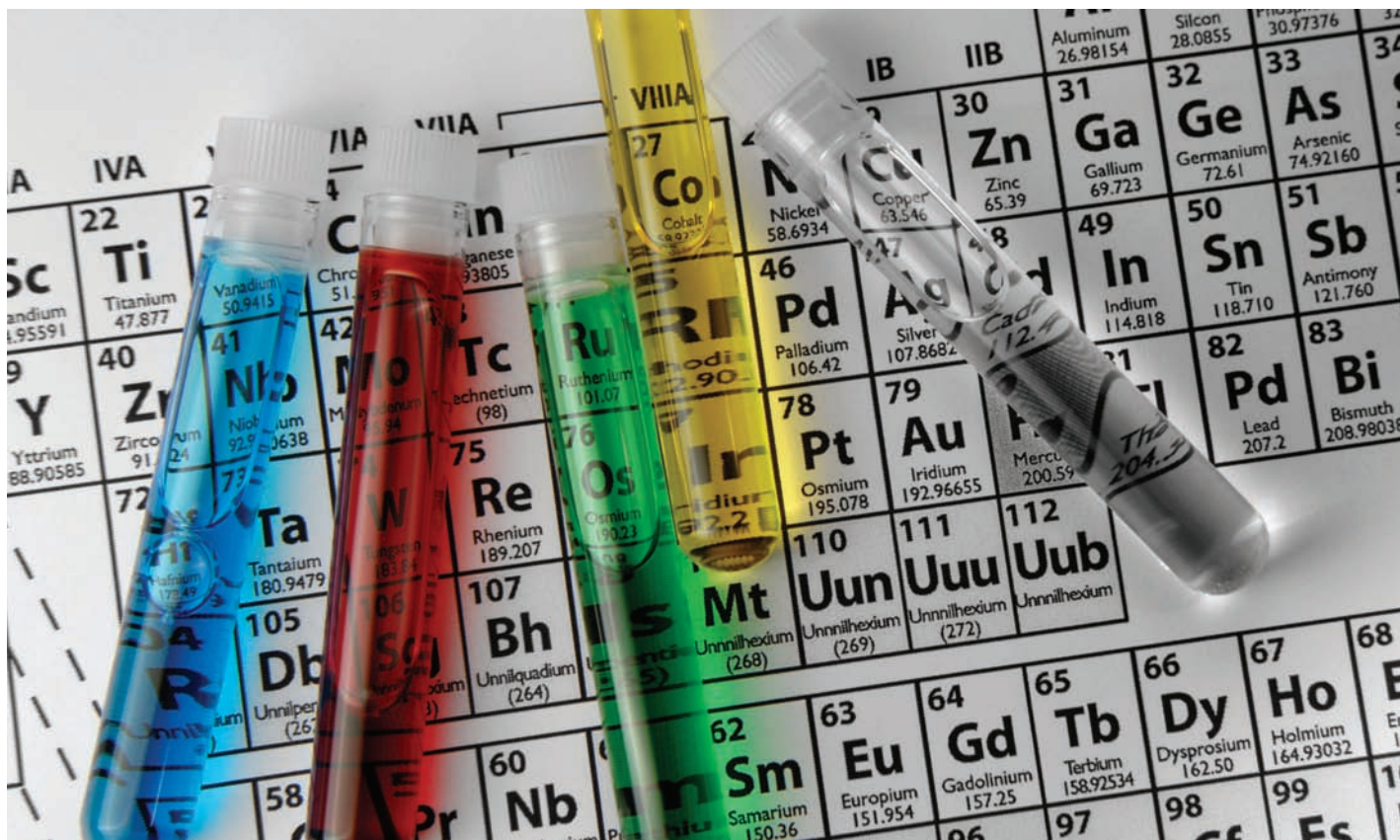
WAVE-CAL-1	100 mL
WAVE-CAL-5	500 mL
WAVE-CAL-10X-1	100 mL
WAVE-CAL-10X-5	500 mL
At stated conc. (µg/mL) in 1% HNO ₃ 15 comps.	

Varian ICP OES Calibration Solution

WAVE-CAL2-1	100 mL
WAVE-CAL2-5	500 mL
WAVE-CAL2-10X-1	100 mL
WAVE-CAL2-10X-5	500 mL
At stated conc. (µg/mL) in 1% HNO ₃ 14 comps.	

	CAL	CAL-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mn (Manganese)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Se (Selenium)	5	50
Sr (Strontium)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

	CAL2	CAL2-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Sr (Strontium)	5	50
P (Phosphorus)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500



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AccuStandard equivalent of Agilent Solutions

NEW

Environmental Calibration Standard

AG-CAL-ASL-1 100 mL
AG-CAL-ASL-5 500 mL
At stated conc. (µg/mL) in 10% HNO₃ 25 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Environmental Initial Calibration Verification

AG-VER1-ASL-1 100 mL
AG-VER1-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 26 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Interference Check 6020 #1

AG-INTFR-6020-ASL-1 100 mL
AG-INTFR-6020-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ tr. HF 12 comps.

Cl (Chloride)	20,000
Ca (Calcium)	3000
Fe (Iron)	2500
Na (Sodium)	2500
C (Carbon)	2000
Al (Aluminum)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
K (Potassium)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check 6020 #2

AG-INTFR2-6020-ASL-1 / 100 mL
AG-INTFR2-6020-ASL-5 / 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 11 comps.

Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Environmental Spike Mix

AG-SPIKE-ASL-1 100 mL
AG-SPIKE-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	100
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	100
Be (Beryllium)	100
Cd (Cadmium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Mn (Manganese)	100
Mo (Molybdenum)	100
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
V (Vanadium)	100
Zn (Zinc)	100
U (Uranium)	100

Environmental Internal Standard

AG-INT-ASL-1 100 mL
AG-INT-ASL-5 500 mL
10 µg/mL each in 5-10% HNO₃ 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ge (Germanium)	Tb (Terbium)
In (Indium)	Y (Yttrium)
Li-6 (Lithium)	

Multi-Element Calibration Std. #1

AG-MECAL1-ASL-1 100 mL
AG-MECAL1-ASL-5 500 mL
10 µg/mL each in 5% HNO₃ 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sc (Scandium)
Er (Erbium)	Sm (Samarium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Y (Yttrium)
Lu (Lutetium)	Yb (Ytterbium)
Nd (Neodymium)	

Multi-Element Calibration Std.#2A

AG-MECAL2-ASL-1 100 mL
AG-MECAL2-ASL-5 500 mL
10 µg/mL each in 5% HNO₃ 25 comps.

Ag (Silver)	K (Potassium)
Al (Aluminum)	Li (Lithium)
As (Arsenic)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Be (Beryllium)	Pb (Lead)
Ca (Calcium)	Rb (Rubidium)
Cd (Cadmium)	Se (Selenium)
Co (Cobalt)	Sr (Strontium)
Cr (Chromium)	Tl (Thallium)
Cs (Cesium)	U (Uranium)
Cu (Copper)	V (Vanadium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

Multi-Element Calibration Std. #3

AG-MECAL3-ASL-1 100 mL
AG-MECAL3-ASL-5 500 mL
10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Std. #4

AG-MECAL4-ASL-1 * 100 mL
AG-MECAL4-ASL-5 * 500 mL
10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

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ICP

Alternate Source

AccuStandard equivalent of Jobin Yvon (JY)

NEW

Instrument Calibration Standard Heavy Metals

JY-CALHM-ASL-1 100 mL
JY-CALHM-ASL-5 500 mL
At stated conc. (µg/mL) in 2-5% HNO₃ 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	30

Instrument Calibration Standard

JY-CAL-ASL-1 100 mL
JY-CAL-ASL-5 500 mL
5000 µg/mL each in 2-5% HNO₃ 4 comps.

Ca (Calcium)	K (Potassium)
Mg (Magnesium)	Na (Sodium)

Instrument Check Standard

JY-CHK-ASL-1 100 mL
JY-CHK-ASL-5 500 mL
50 µg/mL each in 2-5% HNO₃ 9 comps.

Al (Aluminum)	K (Potassium)
As (Arsenic)	Na (Sodium)
Co (Cobalt)	P (Phosphorus)
Cr (Chromium)	Pb (Lead)
Cu (Copper)	

Instrument Check Standard 1

JY-CHK1-ASL-1 100 mL
JY-CHK1-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

K (Potassium)	1500
Pb (Lead)	1000
Al (Aluminum)	500
Mg (Magnesium)	500
Cd (Cadmium)	100

Quality Control Standard 7

JY-QC7-ASL-1 100 mL
JY-QC7-ASL-5 500 mL
At stated conc. (µg/mL) in 2-5% HNO₃ 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

Quality Control Standard 21

JY-QC21-ASL-1 100 mL
JY-QC21-ASL-5 500 mL
100 µg/mL each in 2-5% HNO₃ tr. HF 21 comps.

As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Sb (Antimony)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
Li (Lithium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)
Mn (Manganese)	

Quality Control Standard 23

JY-QC23-ASL-1 100 mL
JY-QC23-ASL-5 500 mL
1000 µg/mL each in 2-5% HNO₃ 23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Cd (Cadmium)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cr (Chromium)	Pb (Lead)
Co (Cobalt)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

AccuStandard equivalent of Perkin Elmer (PE)

NEW

Alternate Interferents A

PE-ALTINTA-ASL-1 100 mL
PE-ALTINTA-ASL-5 500 mL
1000 µg/mL each in 5% HNO₃ 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Analytes B

PE-ANAB-ASL-1 100 mL
PE-ANAB-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ tr. HF, tr. Tartaric acid 14 comps.

Cd (Cadmium)	100
Ni (Nickel)	100
Zn (Zinc)	100
Sb (Antimony)	60
Ba (Barium)	50
Be (Beryllium)	50
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
Mn (Manganese)	50
V (Vanadium)	50
Ag (Silver)	20
As (Arsenic)	10
Tl (Thallium)	10

Alternate Analytes B

PE-ALTB-ASL-1 100 mL
PE-ALTB-ASL-5 500 mL
At stated conc. (µg/mL) in 5% HNO₃ tr. HF, tr. Tartaric acid 12 comps.

Al (Aluminum)	100
As (Arsenic)	100
B (Boron)	100
Mo (Molybdenum)	100
Na (Sodium)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
Ca (Calcium)	10
Fe (Iron)	10
Mg (Magnesium)	10
Si (Silicon)	10

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AccuStandard equivalent of Perkin Elmer (PE)

NEW

Instrument Calibration Std. 1

PE-CAL1-ASL-1 100 mL
PE-CAL1-ASL-5 500 mL
 20 µg/mL each in 2% HNO₃ tr. Tartaric acid
 20 comps.

Ag (Silver)	Mo (Molybdenum)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Th (Thorium)
Co (Cobalt)	Tl (Thallium)
Cr (Chromium)	U (Uranium)
Cu (Copper)	V (Vanadium)
Mn (Manganese)	Zn (Zinc)

Instrument Calibration Std. 2

PE-CAL2-ASL-1 100 mL
PE-CAL2-ASL-5 500 mL
 100 µg/mL each in 5% HNO₃ tr. HF, tr. Tartaric acid
 26 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Mo (Molybdenum)
As (Arsenic)	Na (Sodium)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Pb (Lead)
Ca (Calcium)	Sb (Antimony)
Cd (Cadmium)	Se (Selenium)
Co (Cobalt)	Sn (Tin)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
K (Potassium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)

Instrument Calibration Std. 3

PE-CAL3-ASL-1 100 mL
PE-CAL3-ASL-5 500 mL
 1000 µg/mL each in 5% HNO₃ 5 comps.

Fe (Iron)	Na (Sodium)
K (Potassium)	Mg (Magnesium)
Ca (Calcium)	

Initial Calibration Verification Std.

PE-CRDL1-ASL-1 100 mL
PE-CRDL1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. Tartaric acid
 21 comps.

Ca (Calcium)	5000
Mg (Magnesium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Al (Aluminum)	200
Fe (Iron)	100
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
As (Arsenic)	10
Cr (Chromium)	10
Ag (Silver)	10
Tl (Thallium)	10
Cd (Cadmium)	5
Se (Selenium)	5
Pb (Lead)	3

Supplied as a 10X concentration for better stability.

Instrument Calibration Std. 1

PE-CAL4-ASL-1 100 mL
PE-CAL4-ASL-5 500 mL
 5000 µg/mL each in 5% HNO₃ 4 comps.

Ca (Calcium)	Mg (Magnesium)
K (Potassium)	Na (Sodium)

Instrument Calibration Std. 2

PE-CAL5-ASL-1 100 mL
PE-CAL5-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Ni (Nickel)	400
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
Cr (Chromium)	100

Instrument Calibration Std. 3

PE-CAL6-ASL-1 100 mL
PE-CAL6-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Co (Cobalt)	500
V (Vanadium)	500
Cu (Copper)	250

Instrument Calibration Std. 4

PE-CAL7-ASL-1 100 mL
PE-CAL7-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	30

Detection Limit

PE-CRDL2-ASL-1 100 mL
PE-CRDL2-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF tr.
 Tartaric acid 15 comps.

Sb (Antimony)	120
Co (Cobalt)	100
V (Vanadium)	100
Ni (Nickel)	80
Cu (Copper)	50
Zn (Zinc)	40
Mn (Manganese)	30
Ag (Silver)	20
As (Arsenic)	20
Cr (Chromium)	20
Tl (Thallium)	20
Be (Beryllium)	10
Cd (Cadmium)	10
Se (Selenium)	10
P (Phosphorus)	6

Instrument Check Standard 1

PE-CHK1-ASL-1 100 mL
PE-CHK1-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ tr. HF, tr. Tartaric acid
 17 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cr (Chromium)	Zn (Zinc)
Cu (Copper)	

Instrument Check Standard 3

PE-CHK3-ASL-1 100 mL
PE-CHK3-ASL-5 500 mL
 200 µg/mL each in 2% HNO₃ 5 comps.

Ca (Calcium)	Mg (Magnesium)
Fe (Iron)	Na (Sodium)
K (Potassium)	

Instrument Check Standard 4

PE-CHK4-ASL-1 100 mL
PE-CHK4-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 3 comps.

Mo (Molybdenum)	U (Uranium)
Th (Thorium)	

Instrument Check Standard 5

PE-CHK5-ASL-1 100 mL
PE-CHK5-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ tr. HF 4 comps.

Mo (Molybdenum)	Sr (Strontium)
Sn (Tin)	Tl (Thallium)

Detection Limit Standard for use with the ELAN 5000

PE-CRDL3-ASL-1 100 mL
PE-CRDL3-ASL-5 500 mL
 1 µg/mL each in 1% HNO₃ 5 comps.

Be (Beryllium)	Tl (Thallium)
Co (Cobalt)	U (Uranium)
In (Indium)	

Supplied as a 100X concentration for better stability.

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ICP

Alternate Source

AccuStandard equivalent of Perkin Elmer (PE)

NEW

Interference Check Standard 5

PE-ICSS-ASL-1 100 mL
PE-ICSS-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Ca (Calcium)	6000
Fe (Iron)	5000
Mg (Magnesium)	3000
Al (Aluminum)	1200
Na (Sodium)	1000

Interference Check Standard 18

PE-ICS18-ASL-1-SET 2 x 100 mL
PE-ICS18-ASL-5-SET 2 x 500 mL

PE-ICS18-ASL
 At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

K (Potassium)	20000
As (Arsenic)	1000
Pb (Lead)	1000
Tl (Thallium)	1000
Se (Selenium)	500
Ag (Silver)	300
Ba (Barium)	300
Cd (Cadmium)	300
Co (Cobalt)	300
Cr (Chromium)	300
Cu (Copper)	300
Ni (Nickel)	300
V (Vanadium)	300
Zn (Zinc)	300
Mn (Manganese)	200
Be (Beryllium)	100

PE-ICS18-HG-ASL
 100 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Internal Standard Mix

PE-INT-ASL-1 100 mL
PE-INT-ASL-5 500 mL
 10 µg/mL each in 5-10% HNO₃ 7 comps.

Li6 (Lithium)	In (Indium)
Sc (Scandium)	Tb (Terbium)
Ge (Germanium)	Bi (Bismuth)
Y (Yttrium)	

Interferents A

PE-INTA-ASL-1 100 mL
PE-INTA-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Mg (Magnesium)	5000
Fe (Iron)	2000

Interferents Check Solution 1

PE-INTFR1-ASL-1 100 mL
PE-INTFR1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 12 comps.

Cl (Chloride)	10000
C (Calcium)	2000
Al (Aluminum)	100
Ca (Calcium)	100
Fe (Iron)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
P (Phosphorus)	100
S (Sulfur)	100
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Solution 2

PE-INTFR2-ASL-1 100 mL
PE-INTFR2-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 9 comps.

Ag (Silver)	Cu (Copper)
As (Arsenic)	Mn (Manganese)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Zn (Zinc)
Cr (Chromium)	

Interference Check Standard A

PE-INTFRA-ASL-1 100 mL
PE-INTFRA-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF 12 comps.

Cl (Chloride)	21215
Ca (Calcium)	3000
Na (Sodium)	2500
Fe (Iron)	2500
C (Carbon)	2000
Al (Aluminum)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Standard B

PE-INTFRB-ASL-1 100 mL
PE-INTFRB-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 11 comps.

Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Interference Check Standard C

PE-INTFRC-ASL-1-SET 2 x 100 mL
PE-INTFRC-ASL-5-SET 2 x 500 mL
 2 µg/mL each in 2% HNO₃ tr. HF tr. Tartaric acid 16 comps.

Sb (Antimony)	Pb (Lead)
As (Arsenic)	Mn (Manganese)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Ag (Silver)
Cr (Chromium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cu (Copper)	Zn (Zinc)

PE-INTFRC-HG-ASL
 2 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

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AccuStandard equivalent of Perkin Elmer (PE)

NEW

Mixed Calibration Standard

PE-MCS-ASL-1 100 mL
PE-MCS-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 10 comps.

As (Arsenic)	50
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sr (Strontium)	10
Zn (Zinc)	10
Ba (Barium)	1
Mg (Magnesium)	1

Mixed Calibration Standard 1

PE-MCS1-ASL-1 100 mL
PE-MCS1-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 6 comps.

Pb (Lead)	500
Se (Selenium)	200
Cd (Cadmium)	150
Zn (Zinc)	150
Mn (Manganese)	100
Be (Beryllium)	50

Mixed Calibration Standard 2

PE-MCS2-ASL-1 100 mL
PE-MCS2-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

Fe (Iron)	10000
Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
V (Vanadium)	100

Mixed Calibration Standard 3

PE-MCS3-ASL-1 100 mL
PE-MCS3-ASL-5 500 mL
 at stated conc. (µg/mL) in 2% HNO₃ tr. HF 3 comps.

As (Arsenic)	500
Mo (Molybdenum)	100
Si (Silicon)	100

Mixed Calibration Standard 4

PE-MCS4-ASL-1 100 mL
PE-MCS4-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 6 comps.

Ca (Calcium)	1000
K (Potassium)	400
Al (Aluminum)	200
Na (Sodium)	200
Cr (Chromium)	20
Ni (Nickel)	20

Mixed Calibration Standard 5

PE-MCS5-ASL-1 100 mL
PE-MCS5-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃, tr. HF tr.
 Tartaric acid 5 comps.

Mg (Magnesium)	1000
Sb (Antimony)	200
Tl (Thallium)	200
B (Boron)	100
Ag (Silver)	50

Multi-Element Calibration Standard 1

PE-MECAL1-ASL-1 100 mL
PE-MECAL1-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 9 comps.

Be (Beryllium)	Mg (Magnesium)
Bi (Bismuth)	Ni (Nickel)
Ce (Cerium)	Pb (Lead)
Co (Cobalt)	U (Uranium)
In (Indium)	

Multi-Element Calibration Standard 2

PE-MECAL2-ASL-1 100 mL
PE-MECAL2-ASL-5 500 mL
 10 µg/mL each in 5% HNO₃ 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sm (Samarium)
Er (Erbium)	Sc (Scandium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Yb (Ytterbium)
Lu (Lutetium)	Y (Yttrium)
Nd (Neodymium)	

Multi-Element Calibration Standard 3

PE-MECAL3-ASL-1-SET 2 x 100 mL
PE-MECAL3-ASL-5-SET 2 x 500 mL

PE-MECAL3-ASL
 10 µg/mL each in 5% HNO₃ 29 comps.

Ag (Silver)	K (Potassium)
Al (Aluminum)	Li (Lithium)
As (Arsenic)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Be (Beryllium)	Na (Sodium)
Bi (Bismuth)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
In (Indium)	

PE-MECAL3-HG-ASL
 10 µg/mL in 5% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Multi-Element Calibration Standard 4

PE-MECAL4-ASL-1 100 mL
PE-MECAL4-ASL-5 500 mL
 10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Standard 5

PE-MECAL5-ASL-1 * 100 mL
PE-MECAL5-ASL-5 * 500 mL
 10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

Multi-Element Internal Standard

PE-MEINT-ASL-1 100 mL
PE-MEINT-ASL-5 500 mL
 10 µg/mL each in 2% HNO₃ 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ho (Holmium)	Tb (Terbium)
In (Indium)	Y (Yttrium)
Li6 (Lithium)	

Memory Test 1

PE-MEM1-ASL-1 100 mL
PE-MEM1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ 21 comps.

Al (Aluminum)	1000
Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
Pb (Lead)	20
Se (Selenium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Memory Test 2

PE-MEM2-ASL-1 * 100 mL
PE-MEM2-ASL-5 * 500 mL
 At stated conc. (µg/mL) in Water, tr. HF 6 comps.

Cl (Chloride)	7200
C (Carbon)	2000
P (Phosphorus)	1000
Mo (Molybdenum)	20
Sb (Antimony)	20
Tl (Thallium)	20

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ICP

Alternate Source

AccuStandard equivalent of Perkin Elmer (PE)

NEW

QC Standard 7 Elements

PE-QC7-ASL-1 100 mL
PE-QC7-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃ tr. HF
 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

QC Standard 21 Elements

PE-QC21-ASL-1 100 mL
PE-QC21-ASL-5 500 mL
 100 µg/mL each in 5% HNO₃, tr. HF, tr. Tartaric acid
 21 comps.

As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Sb (Antimony)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
Li (Lithium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)
Mn (Manganese)	

Primary Drinking Water Metals

PE-SDWA1-ASL-1-SET 2 x 100 mL
PE-SDWA1-ASL-5-SET 2 x 500 mL

PE-SDWA1-ASL
 At stated conc. (µg/mL) in 2% HNO₃ 7 comps.

Ba (Barium)	100
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Pb (Lead)	10
Cd (Cadmium)	5
Se (Selenium)	5

PE-SDWA1-HG-ASL
 10 µg/mL in 2% HNO₃

Hg (Mercury)

Supplied separately for better product stability.

Secondary Drinking Water Metals

PE-SDWA2-ASL-1 100 mL
PE-SDWA2-ASL-5 500 mL
 At stated conc. (µg/mL) in 2% HNO₃ 4 comps.

Zn (Zinc)	500
Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5

ELAN 5000 Plasma Setup Solution

PE-SETUP-ASL-1 100 mL
PE-SETUP-ASL-5 500 mL
 1 µg/mL each in 1% HNO₃ 11 comps.

Ba (Barium)	Mg (Magnesium)
Cd (Cadmium)	Rh (Rhodium)
Ce (Cerium)	Sc (Scandium)
Cu (Copper)	Tb (Terbium)
Ge (Germanium)	Tl (Thallium)
Pb (Lead)	

Supplied as a 100X concentration for better stability.

ELAN 9000/6X00 Dual Detector Calibration Solution

PE-SETUP1-ASL-1 100 mL
PE-SETUP1-ASL-5 500 mL
 2 µg/mL each in 1% HNO₃ 5 comps.

Cd (Cadmium)	Mg (Magnesium)
Cu (Copper)	Rh (Rhodium)
Pb (Lead)	

Supplied as a 10X concentration for better stability.

ELAN 6000/5000 Plasma Setup Solution

PE-SETUP2-ASL-1 100 mL
PE-SETUP2-ASL-5 500 mL
 1 µg/mL each in 2% HNO₃ 11 comps.

Ba (Barium)	Mg (Magnesium)
Cd (Cadmium)	Rh (Rhodium)
Ce (Cerium)	Sc (Scandium)
Cu (Copper)	Tb (Terbium)
Ge (Germanium)	Tl (Thallium)
Pb (Lead)	

Supplied as a 100X concentration for better stability.

Spike Sample Analysis

PE-SPIKE-ASL-1 100 mL
PE-SPIKE-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 18 comps.

Al (Aluminum)	200
As (Arsenic)	200
Ba (Barium)	200
Se (Selenium)	200
Tl (Thallium)	200
Fe (Iron)	100
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
Pb (Lead)	50
Sb (Antimony)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Ag (Silver)	5
Be (Beryllium)	5
Cd (Cadmium)	5

Spike Sample Standard I (Water)

PE-SPIKE1-ASL-1 100 mL
PE-SPIKE1-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 17 comps.

Fe (Iron)	500
Ba (Barium)	250
Zn (Zinc)	250
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Mn (Manganese)	100
Ni (Nickel)	100
Sb (Antimony)	100
V (Vanadium)	100
As (Arsenic)	50
Pb (Lead)	50
Ag (Silver)	25
Be (Beryllium)	25
Cd (Cadmium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard II (Soil)

PE-SPIKE2-ASL-1 100 mL
PE-SPIKE2-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 15 comps.

Ba (Barium)	250
Cr (Chromium)	250
Cu (Copper)	250
Zn (Zinc)	250
V (Vanadium)	150
Ni (Nickel)	125
Co (Cobalt)	100
Pb (Lead)	100
Sb (Antimony)	100
As (Arsenic)	50
Cd (Cadmium)	50
Ag (Silver)	25
Be (Beryllium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard III (for ILM 05.2)

PE-SPIKE3-ASL-1 100 mL
PE-SPIKE3-ASL-5 500 mL
 At stated conc. (µg/mL) in 5% HNO₃, tr. HF, tr. Tartaric acid 17 comps.

Al (Aluminum)	200
Ba (Barium)	200
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Sb (Antimony)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Ag (Silver)	5
Tl (Thallium)	5
As (Arsenic)	4
Pb (Lead)	2
Se (Selenium)	1

These products require a Hazardous Shipping Fee except products marked with an asterisk *

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AccuStandard equivalent of Perkin Elmer (PE)

NEW

ELAN 9000/6100

Setup/Stab/Masscal Solution

PE-STAB-ASL-1	100 mL
PE-STAB-ASL-5	500 mL
1 µg/mL each in 1% HNO ₃	9 comps.

Ba (Barium)	Pb (Lead)
Cd (Cadmium)	Mg (Magnesium)
Ce (Cerium)	Rh (Rhodium)
Cu (Copper)	U (Uranium)
In (Indium)	

Supplied as a 100X concentration for better stability.

Tuning Solution I

PE-TUNSOL-ASL-1	100 mL
PE-TUNSOL-ASL-5	500 mL
10 µg/mL each in 2% HNO ₃ , tr. HCl	12 comps.

Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Pb (Lead)
Ce (Cerium)	Rh (Rhodium)
Co (Cobalt)	Tl (Thallium)
In (Indium)	U (Uranium)
Li (Lithium)	Y (Yttrium)

Low UV Standard

PE-UV-ASL-1	100 mL
PE-UV-ASL-5	500 mL
10 µg/mL each in 2% HNO ₃	3 comps.

Al (Aluminum)	S (Sulfur)
P (Phosphorus)	

VIS Wavecal Solution

PE-VISWAVE-ASL-1	100 mL
PE-VISWAVE-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃	8 comps.

K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10
Ba (Barium)	1
Ca (Calcium)	1

UV Wavecal Solution

PE-UVWAVE-ASL-1	100 mL
PE-UVWAVE-ASL-5	500 mL
At stated conc. (µg/mL) in 5% HCl	11 comps.

K (Potassium)	100
P (Phosphorus)	100
S (Sulfur)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Na (Sodium)	20
Ni (Nickel)	20
Sc (Scandium)	20

Initial Calibration Verification Standard 1

PE-VER1-ASL-1	100 mL
PE-VER1-ASL-5	500 mL
At stated conc. (µg/mL) in 5% HNO ₃ tr. Tartaric acid	26 comps.

Fe (Iron)	1000
K (Potassium)	1000
Ca (Calcium)	1000
Na (Sodium)	1000
Mg (Magnesium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Initial Calibration Verification Standard 2

PE-VER2-ASL-1	100 mL
PE-VER2-ASL-5	500 mL
10 µg/mL each in 2% HNO ₃ tr. HF	2 comps.

Sn (Tin)	Tl (Thallium)
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Trace Metals I

PE-WPTM1-ASL-1-SET	2 x 100 mL
PE-WPTM1-ASL-5-SET	2 x 500 mL

PE-WPTM1-ASL

At stated conc. (µg/mL) in 5% HNO₃ 14 comps.

Al (Aluminum)	500
V (Vanadium)	250
As (Arsenic)	100
Be (Beryllium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Zn (Zinc)	100
Cd (Cadmium)	25
Se (Selenium)	25

PE-WPTM1-HG-ASL

10 µg/mL in 5% HNO₃

Hg (Mercury) Supplied separately for better product stability.

Trace Metals II

PE-WPTM2-ASL-1	100 mL
PE-WPTM2-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃	3 comps.

Sb (Antimony)	20
Tl (Thallium)	20
Ag (Silver)	10

Trace Metals III

PE-WPTM3-ASL-1	100 mL
PE-WPTM3-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃	6 comps.

Ba (Barium)	500
Ca (Calcium)	500
Mo (Molybdenum)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

Alternate Metals 1

PE-WPAM1-ASL-1	100 mL
PE-WPAM1-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃	11 comps.

Al (Aluminum)	20
Fe (Iron)	20
V (Vanadium)	20
Co (Cobalt)	10
Cu (Copper)	10
Mn (Manganese)	10
Ni (Nickel)	10
Zn (Zinc)	10
Be (Beryllium)	5
Sb (Antimony)	5
Tl (Thallium)	5

Alternate Metals 3

PE-WPAM3-ASL-1	100 mL
PE-WPAM3-ASL-5	500 mL
At stated conc. (µg/mL) in 2% HNO ₃	4 comps.

Ca (Calcium)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

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ICP

Alternate Source

AccuStandard equivalent of Teledyne

NEW

Check Mate 1

TELE-CHK1-ASL-1-SET 2 x 100 mL
TELE-CHK1-ASL-5-SET 2 x 500 mL

TELE-CHK1-AG-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
24 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
As (Arsenic)	10
B (Boron)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Si (Silicon)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK1-AG-ASL

1000 µg/mL in 2% HNO₃

Ag (Silver)

Supplied separately for better product stability.

Check Mate 2

TELE-CHK2-ASL-1-SET 2 x 100 mL
TELE-CHK2-ASL-5-SET 2 x 500 mL

TELE-CHK2-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
17 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sb (Antimony)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK2-AG-ASL

1000 µg/mL in 2% HNO₃

Ag (Silver)

Supplied separately for better product stability.

Check Mate 3

TELE-CHK3-ASL-1-SET 2 x 100 mL
TELE-CHK3-ASL-5-SET 2 x 500 mL

TELE-CHK3-ASL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
17 comps.

Ca (Calcium)	10
K (Potassium)	10
Mg (Magnesium)	10
Na (Sodium)	10
Al (Aluminum)	1
Ba (Barium)	1
Be (Beryllium)	1
Cd (Cadmium)	1
Co (Cobalt)	1
Cr (Chromium)	1
Cu (Copper)	1
Fe (Iron)	1
Mn (Manganese)	1
Ni (Nickel)	1
Sb (Antimony)	1
V (Vanadium)	1
Zn (Zinc)	1

TELE-CHK3-AG-ASL

1000 µg/mL in 2% HNO₃

Ag (Silver)

Supplied
separately
for better
product
stability.

Check Mate 4

TELE-CHK4-ASL-1 100 mL
TELE-CHK4-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Mg (Magnesium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Fe (Iron)	100
Al (Aluminum)	60
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Tl (Thallium)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Pb (Lead)	5
Se (Selenium)	5

Check Mate 5

TELE-CHK5-ASL-1 100 mL
TELE-CHK5-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 16 comps.

Ca (Calcium)	2000
K (Potassium)	2000
Mg (Magnesium)	2000
Na (Sodium)	2000
Al (Aluminum)	1000
Ba (Barium)	1000
Fe (Iron)	1000
Co (Cobalt)	500
Ni (Nickel)	500
V (Vanadium)	500
Cr (Chromium)	200
Cu (Copper)	200
Ag (Silver)	100
Be (Beryllium)	100
Mn (Manganese)	100
Zn (Zinc)	100

Check Mate 6

TELE-CHK6-ASL-1 100 mL
TELE-CHK6-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 5 comps.

As (Arsenic)	500
Pb (Lead)	500
Se (Selenium)	500
Tl (Thallium)	500
Cd (Cadmium)	100

Check Mate 7

TELE-CHK7-ASL-1 100 mL
TELE-CHK7-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HCl, 1% HNO₃
17 comps.

Ca (Calcium)	50
K (Potassium)	50
Mg (Magnesium)	50
Na (Sodium)	50
Al (Aluminum)	5
Ba (Barium)	5
Be (Beryllium)	5
Cd (Cadmium)	5
Co (Cobalt)	5
Cr (Chromium)	5
Cu (Copper)	5
Fe (Iron)	5
Mn (Manganese)	5
Ni (Nickel)	5
Sb (Antimony)	5
V (Vanadium)	5
Zn (Zinc)	5

Check Mate 8

TELE-CHK8-ASL-1 100 mL
TELE-CHK8-ASL-5 500 mL

At stated conc. (µg/mL) in 5% HNO₃ 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Mg (Magnesium)	5000
Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Sb (Antimony)	600
Co (Cobalt)	500
V (Vanadium)	500
Ni (Nickel)	400
Cu (Copper)	250
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
As (Arsenic)	100
Cr (Chromium)	100
Tl (Thallium)	100
Be (Beryllium)	50
Cd (Cadmium)	50
Pb (Lead)	50
Se (Selenium)	50

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EU Formulation

Scope: For the determination of 32 elements by ICP (Inductively Coupled Plasma)

DIN EN ISO 11885 - 32 Element ICP Standard Set

DINENISO-11885-1-SET	2 x 100 mL
DINENISO-11885-5-SET	2 x 500 mL

Part 1

DINENISO-11885A-1	100 mL
DINENISO-11885A-5	500 mL

At stated conc. (µg/mL) in 2-5% HNO₃ tr. HF
24 comps.

Ag (Silver)	20
Al (Aluminum)	40
As (Arsenic)	80
Ba (Barium)	2
Be (Beryllium)	2
Bi (Bismuth)	40
Ca (Calcium)	2
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	20
K (Potassium)	50
Li (Lithium)	2
Mg (Magnesium)	1
Mn (Manganese)	2
Na (Sodium)	20
Ni (Nickel)	50
Pb (Lead)	50
Sb (Antimony)	50
Se (Selenium)	50
Sr (Strontium)	0.5
V (Vanadium)	10
Zn (Zinc)	5

Part 2

DINENISO-11885B-1	100 mL
DINENISO-11885B-5	500 mL

At stated conc. (µg/mL) in 2-5% HNO₃ tr. HF
8 comps.

B (Boron)	5
Mo (Molybdenum)	30
P (Phosphorus)	50
S (Sulfur)	50
Si (Silicon)	20
Sn (Tin)	50
Ti (Titanium)	5
Zr (Zirconium)	10

Gun Powder Residue

This is used in forensic applications for analyzing wipes for the presence of gun powder residue.

ICP-PWDRES-5	500 mL
3 components in 5% HNO ₃	

Element	µg/mL
Pb (Lead)	5
Ba (Barium)	5
Sb (Antimony)	0.2

ASTM D5184 Aluminum and Silicon in Fuel Oils by Ashing, Fusion, ICP-AES Spectrometry & AA Spectrometry

Tartaric Acid / Hydrochloric Acid Solution

D-5184-91-TA-5	1 x 500 mL
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Tartaric acid @ 0.5% w/v in 4% HCl

Silicon Standard Solution

D-5184-91-SI-1	1 x 100 mL
D-5184-91-SI-5	1 x 500 mL

Silicon @ 1000 µg/mL in trace NaOH

Aluminum Standard Solution

D-5184-91-AL-1	1 x 100 mL
D-5184-91-AL-5	1 x 500 mL

Aluminum @ 1000 µg/mL in 5 % HCl

Technical Note

Contact our Technical Service Department for **Ready-to-Aspirate** working level calibration curves designed for your laboratories' specific calibration ranges.

ASTM D5600 Trace Metals in Petroleum Coke by ICP-AES

Multi-Element Calibration Standard

D-5600-01-1	1 x 100 mL
500 µg/mL each in 2-5% HNO ₃ tr. HF	
12 comps.	

Aluminum	Magnesium	Sodium
Barium	Manganese	Titanium
Calcium	Nickel	Vanadium
Iron	Silicon	Zinc

Hydrochloric Acid Diluent

D-5600-BLH-5	1 x 500 mL
D-5600-BLH-L-VAP	L (2 x 500 mL)

20% HCl in ASTM Type II water

Lithium Borate Diluent

D-5600-LIB-1	1 x 100 mL
D-5600-LIB-5	1 x 500 mL

2.0% Lithium Borate in 10% HCl

These products require a Hazardous Shipping Fee except products marked with an asterisk *



ICP/MS

Multi-Element Standards

■ Ultra Pure Matrix ■ Special Packaging ■ Traceability to National Reference Materials

AccuStandard's ICP/MS Standards are formulated to meet the needs of this very special instrument. As matrix effect is of utmost concern each standard is formulated in specially purified 18 megohm de-ionized water. After both wet chemical and instrumental analysis, the standards are packaged in acid leached FLPE containers to provide required protection and, of course, all standards are traceable to the National Institute of Standards and Technology (NIST) weights and Reference Materials.

Calibration Standards

These five standards encompass the entire range of elements all at 10 ppm.

Calibration Standard 1

ICP-MS-CAL1-1 100 mL
10 µg/mL each in 5% HNO₃ 17 comps.

Element	Isotope
Ce (Cerium)	140
Dy (Dysprosium)	164
Er (Erbium)	166
Eu (Europium)	153
Gd (Gadolinium)	158
Ho (Holmium)	165
La (Lanthanum)	139
Lu (Lutetium)	175
Nd (Neodymium)	143
Pr (Praseodymium)	141
Sm (Samarium)	152
Sc (Scandium)	45
Tb (Terbium)	159
Th (Thorium)	232
Tm (Thulium)	169
Yb (Ytterbium)	174
Y (Yttrium)	89

Calibration Standard 2

ICP-MS-CAL2-1 100 mL
10 µg/mL each in 5% HNO₃ 29 comps.

Element	Isotope
Al (Aluminum)	27
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Bi (Bismuth)	209
Cd (Cadmium)	114
Ca (Calcium)	40
Cs (Cesium)	133
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Ga (Gallium)	69
In (Indium)	115
Fe (Iron)	56
Pb (Lead)	208
Li (Lithium)	7
Mg (Magnesium)	24
Mn (Manganese)	55
Ni (Nickel)	58
K (Potassium)	39
Rb (Rubidium)	85
Se (Selenium)	80
Ag (Silver)	107
Na (Sodium)	23
Sr (Strontium)	88
Tl (Thallium)	205
U (Uranium)	238
V (Vanadium)	51
Zn (Zinc)	64

Calibration Standard 3

ICP-MS-CAL3-1 100 mL
10 µg/mL each in 10% HCl 10 comps.

Element	Isotope
Sb (Antimony)	121
Au (Gold)	197
Hf (Hafnium)	180
Ir (Iridium)	193
Pd (Palladium)	106
Pt (Platinum)	195
Rh (Rhodium)	103
Ru (Ruthenium)	102
Te (Tellurium)	130
Sn (Tin)	120

Calibration Standard 5

ICP-MS-CAL5-1 100 mL
10 µg/mL in 5% HNO₃

Element	Isotope
Hg (Mercury)	202

Calibration Standard 4

ICP-MS-CAL4-1 * 100 mL
10 µg/mL each in H₂O trace HF 12 comps.

Element	Isotope
B (Boron)	11
Ge (Germanium)	74
Mo (Molybdenum)	98
Nb (Niobium)	93
P (Phosphorous)	31
Re (Rhenium)	187
Si (Silicon)	28
S (Sulphur)	32
Ta (Tantalum)	181
Ti (Titanium)	48
W (Tungsten)	184
Zr (Zirconium)	90

Calibration Standard Set

ICP-MS-CAL1-SET	5 x 100 mL
ICP-MS-CAL1-1	ICP-MS-CAL4-1
ICP-MS-CAL2-1	ICP-MS-CAL5-1
ICP-MS-CAL3-1	



Matrix Blanks

Nitric Acid Blank

ICP-MS-BLN-1 100 mL
ICP-MS-BLN-5 500 mL

5% HNO₃ in ASTM Type I Water

These blanks are prepared from the same water source and acids as your standards and therefore provide a consistent matrix. They are excellent as a blank, preparing a standard curve, or as a diluent for standards and samples.

Hydrochloric Acid Blank

ICP-MS-BLH-1 100 mL
ICP-MS-BLH-5 500 mL

5% HCl in ASTM Type I Water

Water Blank

ICP-MS-BLW-1 * 100 mL
ICP-MS-BLW-5 * 500 mL

ASTM Type I Water

These products require a Hazardous Shipping Fee except products marked with an asterisk *

ICP/MS

Multi-Element Standards



Tuning Solutions

We offer two tuning solutions, both range from 7-238 mass units. Choose the one which best suits your needs.

ICP-MS-TUNSOL1-1 100 mL
100 µg/mL each in 2% HNO₃ 8 comps.

Element	Most Abundant Isotope
Ba (Barium)	138
Be (Beryllium)	9
Cu (Copper)	63
In (Indium)	115
Li (Lithium)	7
Mg (Magnesium)	24
Tl (Thallium)	205
U (Uranium)	238

ICP-MS-TUNSOL2-1 100 mL
100 µg/mL each in 2% HNO₃ 13 comps.

Element	Most Abundant Isotope
Ba (Barium)	138
Be (Beryllium)	9
Bi (Bismuth)	209
Ce (Cerium)	140
Cu (Copper)	63
Ho (Holmium)	165
In (Indium)	115
Pb (Lead)	208
Li (Lithium)	7
Mg (Magnesium)	24
Tl (Thallium)	205
U (Uranium)	238
Y (Yttrium)	89

Interference Check Standards

Solution A

ICP-MS-INTA-1 100 mL
At stated conc. (µg/mL) in 1% HNO₃ 12 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	1000	27
C (Carbon)	2000	12
Ca (Calcium)	3000	40
Cl (Chloride)	18000	35
Fe (Iron)	2500	56
Mg (Magnesium)	1000	24
Mo (Molybdenum)	20	98
P (Phosphorous)	1000	31
K (Potassium)	1000	39
Na (Sodium)	2500	23
S (Sulphur)	1000	32
Ti (Titanium)	20	48

Solution B

ICP-MS-INTB-1 100 mL
At stated conc. (µg/mL) in 2% HNO₃ 11 comps.

Element	µg/mL	Most Abundant Isotope
As (Arsenic)	10	75
Cd (Cadmium)	10	114
C (Carbon)	20	12
Cr (Chromium)	20	52
Cu (Copper)	20	63
Mn (Manganese)	20	55
Ni (Nickel)	20	58
Se (Selenium)	10	80
Ag (Silver)	20	107
V (Vanadium)	20	51
Zn (Zinc)	10	64

Interference Check Standard Set

ICP-MS-INT-1-SET 2 x 100 mL

ICP-MS-INTA-1 ICP-MS-INTB-1

Memory Check Solution

Memory Check Solution Sets

ICP-MS-MEMCHKA-R1-SET

2 x 100 mL

ICP-MS-MEMCHKA1-R1
ICP-MS-MEMCHKA2-R1

ICP-MS-MEMCHK-R1-SET

3 x 100 mL

ICP-MS-MEMCHKA1-R1
ICP-MS-MEMCHKA2-R1
ICP-MS-MEMCHKB-R1

Solution A

ICP-MS-MEMCHKA1-R1 100 mL
At stated conc. (µg/mL) in 2% HNO₃ 24 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	1000	27
Sb (Antimony)	20	121
As (Arsenic)	20	75
Ba (Barium)	20	138
Be (Beryllium)	20	9
Cd (Cadmium)	20	114
Ca (Calcium)	1000	40
C (Carbon)	2000	12
Cr (Chromium)	20	52
Co (Cobalt)	20	59
Cu (Copper)	20	63
Fe (Iron)	1000	56
Pb (Lead)	20	208
Mg (Magnesium)	1000	24
Mo (Molybdenum)	20	98
K (Potassium)	1000	39
Ti (Titanium)	20	48
Mn (Manganese)	20	55
Ni (Nickel)	20	58
Se (Selenium)	20	80
Na (Sodium)	1000	23
Tl (Thallium)	20	205
V (Vanadium)	20	51
Zn (Zinc)	20	64

ICP-MS-MEMCHKA2-R1 100 mL
20 µg/mL In 2% HNO₃

Element	Most Abundant Isotope
Ag (Silver)	107

Solution B

ICP-MS-MEMCHKB-R1 * 100 mL
At stated conc. (µg/mL) in H₂O 3 comps.

Element	µg/mL	Most Abundant Isotope
Cl (Chloride)	7200	35
P (Phosphorous)	1000	31
S (Sulphur)	1000	32

Technical Note

These memory check solutions are not designed to be used as standards. The solutions should be mixed together right before aspiration. Precipitate will form over time - this is normal and will not affect the performance of the solution. The mixture is used only to determine the memory or "carry-over" that occurs after running a "concentrated" solution.





ICP/MS

Multi-Element Standards

Spiking Standards

Spiking Standard for Water

ICP-MS-SPIKE-W-1 100 mL

At stated conc. (µg/mL) in 5% HNO₃ 17 comps.

Most Abundant

Element	µg/mL	Isotope
Sb (Antimony)	100	121
As (Arsenic)	50	75
Ba (Barium)	250	138
Be (Beryllium)	25	9
Cd (Cadmium)	25	114
Cr (Chromium)	100	52
Co (Cobalt)	100	59
Cu (Copper)	100	63
Fe (Iron)	500	56
Pb (Lead)	50	208
Mn (Manganese)	100	55
Ni (Nickel)	100	58
Se (Selenium)	25	80
Ag (Silver)	25	107
Tl (Thallium)	25	205
V (Vanadium)	100	51
Zn (Zinc)	250	64

Spiking Standard for Soil

ICP-MS-SPIKE-S-1 100 mL

At stated conc. (µg/mL) in 5% HNO₃ 15 comps.

Most Abundant

Element	µg/mL	Isotope
Sb (Antimony)	100	121
As (Arsenic)	50	75
Ba (Barium)	250	138
Be (Beryllium)	25	9
Cd (Cadmium)	50	114
Cr (Chromium)	250	52
Co (Cobalt)	100	59
Cu (Copper)	250	63
Pb (Lead)	100	208
Ni (Nickel)	125	58
Se (Selenium)	25	80
Ag (Silver)	25	107
Tl (Thallium)	25	205
V (Vanadium)	150	51
Zn (Zinc)	250	90

Spiking Standard Set

ICP-MS-SPIKE-1-SET

2 x 100 mL

ICP-MS-SPIKE-W-1

ICP-MS-SPIKE-S-1

Quality Control

Sample 1

ICP-MS-QC1-1

10 µg/mL each in 2% HNO₃

100 mL

9 comps.

Most Abundant

Element	Isotope
Be (Beryllium)	9
Bi (Bismuth)	209
Ce (Cerium)	140
Co (Cobalt)	59
In (Indium)	115
Pb (Lead)	208
Mg (Magnesium)	24
Ni (Nickel)	58
U (Uranium)	238

Sample 2

ICP-MS-QC2-1

10 µg/mL each in 5% HNO₃

100 mL

25 comps

Most Abundant

Element	Isotope
Al (Aluminium)	27
Sb (Antimony)	121
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Cd (Cadmium)	114
Ca (Calcium)	40
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Fe (Iron)	56
Pb (Lead)	208
Mg (Magnesium)	24
Mn (Manganese)	55
Mo (Molybdenum)	98
Ni (Nickel)	56
K (Potassium)	39
Se (Selenium)	80
Ag (Silver)	107
Na (Sodium)	23
Tl (Thallium)	205
Th (Thorium)	232
U (Uranium)	238
V (Vanadium)	51
Zn (Zinc)	64

Sample 3

ICP-MS-QC3-1

10 µg/mL each in 5% HNO₃ tr. HF

100 mL

21 comps.

Most Abundant

Element	Isotope
Sb (Antimony)	121
As (Arsenic)	75
Be (Beryllium)	9
Cd (Cadmium)	114
Ca (Calcium)	40
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Fe (Iron)	56
Pb (Lead)	208
Li (Lithium)	7
Mg (Magnesium)	24
Mn (Manganese)	55
Mo (Molybdenum)	98
Ni (Nickel)	58
Se (Selenium)	80
Sr (Strontium)	88
Tl (Thallium)	205
Ti (Titanium)	48
V (Vanadium)	51
Zn (Zinc)	64

Internal Standards

Single Internal Standards

For convenience we offer two concentrations - You decide which is most convenient.

Element	Matrix	Unit	10 µg/mL	100 µg/mL
Bismuth	5% HNO ₃	100 mL	ICP-MS-IS-BI-1	ICP-MS-IS-BI-1-10X
Indium	5% HNO ₃	100 mL	ICP-MS-IS-IN-1	ICP-MS-IS-IN-1-10X
Rhodium	10% HCl	100 mL	ICP-MS-IS-RH-1	ICP-MS-IS-RH-1-10X
Scandium	5% HNO ₃	100 mL	ICP-MS-IS-SC-1	ICP-MS-IS-SC-1-10X
Terbium	5% HNO ₃	100 mL	ICP-MS-IS-TB-1	ICP-MS-IS-TB-1-10X
Yttrium	5% HNO ₃	100 mL	ICP-MS-IS-Y-1	ICP-MS-IS-Y-1-10X

Internal Standard Mix

These internal standards have been chosen because they all have nearly 100% abundance of a single isotope and they are not commonly found in routine samples.

ICP-MS-IS-MIX1-1

10 µg/mL each in 2% HNO₃

100 mL

7 comps.

Most Abundant

Element	Isotope
Bi (Bismuth)	209
Ho (Holmium)	165
In (Indium)	115
6-Li (Lithium-6)	6
Sc (Scandium)	45
Tb (Terbium)	159
Y (Yttrium)	89

These products require a Hazardous Shipping Fee except products marked with an asterisk *



Method 200.8 Determination of Trace Elements in Water and Waste by ICP/MS

Calibration Standards

Calibration Standard #1 (1991 Version)

ICP-MS-200.8-CAL1-1
10 µg/mL each in 5% HNO₃ tr. HF 100 mL
18 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Be (Beryllium)	9
Cd (Cadmium)	114
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Pb (Lead)	208
Mn (Manganese)	55
Mo (Molybdenum)	98
Ni (Nickel)	58
Se (Selenium)	80
Tl (Thallium)	205
Th (Thorium)	232
U (Uranium)	238
V (Vanadium)	51
Zn (Zinc)	64

Calibration Standard #2

ICP-MS-200.8-CAL2-1
10 µg/mL each in 2% HNO₃ tr. HF 100 mL
2 comps.

Element	Most Abundant Isotope
Ba (Barium)	138
Ag (Silver)	67

Calibration Standard #1R (1994 Version)

ICP-MS-200.8-CAL1R-1
At stated conc. (µg/mL) in 2% HNO₃ tr. HF 100 mL
18 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	10	27
Sb (Antimony)	10	121
As (Arsenic)	10	75
Be (Beryllium)	10	9
Cd (Cadmium)	10	114
Cr (Chromium)	10	52
Co (Cobalt)	10	59
Cu (Copper)	10	63
Pb (Lead)	10	208
Mn (Manganese)	10	55
Mo (Molybdenum)	10	98
Ni (Nickel)	10	58
Se (Selenium)	50	80
Tl (Thallium)	10	205
Th (Thorium)	10	232
U (Uranium)	10	238
V (Vanadium)	10	51
Zn (Zinc)	10	64

Calibration Standard #3

ICP-MS-200.8-CAL3-1
1 component in 5% HNO₃ 100 mL

Element	µg/mL	Most Abundant Isotope
Hg (Mercury)	5	202

Internal Standards

Internal Standard #1

ICP-MS-200.8-IS-1
100 µg/mL each in 2% HNO₃ 100 mL
5 comps.

Element	Most Abundant Isotope
Sc (Scandium)	45
Y (Yttrium)	89
In (Indium)	115
Tb (Terbium)	159
Bi (Bismuth)	209

Internal Standard #2

ICP-MS-200.8-IS2-1
100 µg/mL in 2% HNO₃ 100 mL

Element	Most Abundant Isotope
Au (Gold)	197

Tuning Standard

ICP-MS-200.8-TUN-1
10 µg/mL each in 2% HNO₃ 100 mL
5 comps.

Element	Most Abundant Isotope
Be (Beryllium)	75
Mg (Magnesium)	24
Co (Cobalt)	59
In (Indium)	115
Pb (Lead)	208

Method 6020 Standards for Inductively Coupled Mass Spectrometry

Calibration Standard

ICP-MS-6020-CAL-R-1
10 µg/mL each in 2% HNO₃ 100 mL
22 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Cd (Cadmium)	114
Ca (Calcium)	40
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Fe (Iron)	56
Pb (Lead)	208
Mg (Magnesium)	24
Mn (Manganese)	55
Ni (Nickel)	58
K (Potassium)	39
Se (Selenium)	80
Ag (Silver)	107
Na (Sodium)	23
Tl (Thallium)	205
V (Vanadium)	51
Zn (Zinc)	64



Calibration Standard

ICP-MS-6020-CAL-1
10 µg/mL each in 2% HNO₃ 100 mL
15 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Cd (Cadmium)	114
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Pb (Lead)	208
Mn (Manganese)	55
Ni (Nickel)	58
Ag (Silver)	107
Tl (Thallium)	205
Zn (Zinc)	64

Interference Check Standard #1

ICP-MS-6020-INT1-1
At stated conc. (µg/mL) in 2% HNO₃ 100 mL
12 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	1000	27
Cl (Chloride)	10000	35
Ca (Calcium)	1000	40
C (Carbon)	2000	12
Fe (Iron)	1000	56
Mg (Magnesium)	1000	24
Mo (Molybdenum)	20	98
P (Phosphorus)	1000	31
K (Potassium)	1000	39
Na (Sodium)	1000	23
S (Sulfur)	1000	32
Ti (Titanium)	20	48

Interference Check Standard #2

ICP-MS-6020-INT2-1
2 µg/mL each in 5% HNO₃ tr. HF 100 mL
9 comps.

Element	Most Abundant Isotope
As (Arsenic)	75
Cd (Cadmium)	114
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Mn (Manganese)	55
Ni (Nickel)	58
Ag (Silver)	107
Zn (Zinc)	64

Internal Standard

ICP-MS-6020-IS-1
10 µg/mL each in 2% HNO₃ 100 mL
7 comps.

Element	Most Abundant Isotope
Bi (Bismuth)	209
Ho (Holmium)	165
In (Indium)	115
Li (Lithium-6)	6
Sc (Scandium)	45
Tb (Terbium)	159
Y (Yttrium)	89

Tuning Standard

ICP-MS-6020-TUN-1
10 µg/mL each in 2% HNO₃ 100 mL
4 comps.

Element	Most Abundant Isotope
Co (Cobalt)	59
In (Indium)	115
Li (Lithium)	7
Tl (Thallium)	205



Organometallic Standards

AA, ICP, DCP & XRF Analysis

These Standards were formulated for the analysis of metals in oils and other organic matrices. These Standards and curves provide a convenient way to analyze for metals (wear metals, additives and contaminants) in lubricating oils, gasolines, residual oils, crude oils, turbine fuels and environmental samples. All standards undergo rigorous quality assurance checks. Major constituents in the final Standard are typically analyzed by both plasma emission and rotrode techniques. Organometallic Standards listed on this page may contain sulfur which can be introduced by possible sulfonate starting materials used to formulate the actual organometallic standard. We developed a Premium Organometallic line for chemists preferring to have organometallic standards with <1 ppm sulfur or phosphorous (see Table of Contents).

- Single & Multi Element Standards
- Prepared Calibration Curves
- Formulated from Ultra High Purity Organometallic starting materials & matrices
- Certificate of Analysis

Single Element Wear Metals

Organometallic ICP/XRF

Element	1000 µg/g in 75 cSt base oil Cat. No. (50 g)	5000 µg/g in 75 cSt base oil Cat. No. (50 g)
Al (Aluminum)	WM-75CST-01	WM-75CST-01-5X
Sb (Antimony)	WM-75CST-02	WM-75CST-02-5X
As (Arsenic)	WM-75CST-03	
Ba (Barium)	WM-75CST-04	WM-75CST-04-5X
Be (Beryllium) NEW	WM-75CST-05	
Bi (Bismuth)	WM-75CST-06	WM-75CST-06-5X
B (Boron)	WM-75CST-07	WM-75CST-07-5X
Cd (Cadmium)	WM-75CST-08	WM-75CST-08-5X
Ca (Calcium)	WM-75CST-09	WM-75CST-09-5X
Cr (Chromium)	WM-75CST-13	WM-75CST-13-5X
Co (Cobalt) NEW	WM-75CST-14	WM-75CST-14-5X
Cu (Copper)	WM-75CST-15	WM-75CST-15-5X
Fe (Iron)	WM-75CST-27	WM-75CST-27-5X
La (Lanthanum) NEW	WM-75CST-28	
Pb (Lead)	WM-75CST-29	WM-75CST-29-5X
Li (Lithium)	WM-75CST-30	WM-75CST-30-5X
Mg (Magnesium)	WM-75CST-32	WM-75CST-32-5X
Mn (Manganese)	WM-75CST-33	WM-75CST-33-5X
Hg (Mercury)	WM-75CST-34	
Mo (Molybdenum)	WM-75CST-35	WM-75CST-35-5X
Ni (Nickel)	WM-75CST-37	WM-75CST-37-5X
P (Phosphorous)	WM-75CST-41	WM-75CST-41-5X
K (Potassium)	WM-75CST-43	WM-75CST-43-5X
Sc (Scandium)	WM-75CST-50	
Se (Selenium) NEW	WM-75CST-51	WM-75CST-51-5X
Si (Silicon)	WM-75CST-52	WM-75CST-52-5X
Ag (Silver)	WM-75CST-53	WM-75CST-53-5X
Na (Sodium)	WM-75CST-54	WM-75CST-54-5X
Sr (Strontium)	WM-75CST-55	
S (Sulfur) NEW	WM-75CST-56	WM-75CST-56-5X
Tl (Thallium)	WM-75CST-60	
Sn (Tin)	WM-75CST-63	WM-75CST-63-5X
Ti (Titanium)	WM-75CST-64	WM-75CST-64-5X
V (Vanadium)	WM-75CST-67	WM-75CST-67-5X
Y (Yttrium) NEW	WM-75CST-69	WM-75CST-69-5X
Zn (Zinc)	WM-75CST-70	WM-75CST-70-5X
Zr (Zirconium)	WM-75CST-71	WM-75CST-71-5X

Matrix Oil and Stabilizer

75 cSt Oil

MOSOL-75 400 g

Stabilizer

WM-STAB 1 x 50 g

Technical Note

Used to improve the stability of Organometallic Standards when diluting into solvents such as Kerosene.

Metals Additives

Metals Additives Standard

MA-900-100G	100 g
MA-900-200G	200 g
900 µg/g each in Hydrocarbon oil	
MA-1000-100G	100 g
MA-1000-200G	200 g
1000 µg/g each in Hydrocarbon oil	
MA-3000-100G	100 g
MA-3000-200G	200 g
3000 µg/g each in Hydrocarbon oil	
MA-5000-100G	100 g
MA-5000-200G	200 g
5000 µg/g each in Hydrocarbon oil	5 comps.

Ba (Barium) P (Phosphorous)
Ca (Calcium) Zn (Zinc)
Mg (Magnesium)



See our BioFuel Standards in the Petrochemical Section of this Catalog for Wear Metals in BioFuels.

These products do not require Hazardous Shipping Fee at this time.

Organometallic Standards

AA, ICP, DCP & XRF Analysis



12 Wear Metal Multi-Element

Conc.	Unit	Cat. No.
10 µg/g	100 g	WM-12-1X-100G
	200 g	WM-12-1X-200G
30 µg/g	100 g	WM-12-3X-100G
	200 g	WM-12-3X-200G
50 µg/g	100 g	WM-12-5X-100G
	200 g	WM-12-5X-200G
100 µg/g	100 g	WM-12-10X-100G
	200 g	WM-12-10X-200G
300 µg/g	100 g	WM-12-30X-100G
	200 g	WM-12-30X-200G
500 µg/g	100 g	WM-12-50X-100G
	200 g	WM-12-50X-200G
900 µg/g	100 g	WM-12-90X-100G
	200 g	WM-12-90X-200G

100 gram Set WM-12-100G-SET
set of above 7 x 100 g

200 gram Set WM-12-200G-SET
set of above 7 x 200 g

Each Wear Metal Standard contains 12 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)	Na (Sodium)
Al (Aluminum)	Ni (Nickel)
Cr (Chromium)	Pb (Lead)
Cu (Copper)	Si (Silicon)
Fe (Iron)	Sn (Tin)
Mg (Magnesium)	Ti (Titanium)

22 Wear Metal Multi-Element



Conc.	Unit	Cat. No.
10 µg/g	100 g	WM-22-1X-100G
	200 g	WM-22-1X-200G
30 µg/g	100 g	WM-22-3X-100G
	200 g	WM-22-3X-200G
50 µg/g	100 g	WM-22-5X-100G
	200 g	WM-22-5X-200G
100 µg/g	100 g	WM-22-10X-100G
	200 g	WM-22-10X-200G
300 µg/g	100 g	WM-22-30X-100G
	200 g	WM-22-30X-200G
500 µg/g	100 g	WM-22-50X-100G
	200 g	WM-22-50X-200G
900 µg/g	100 g	WM-22-90X-100G
	200 g	WM-22-90X-200G

100 gram Set WM-22-100G-SET
set of above 7 x 100 g

200 gram Set WM-22-200G-SET
set of above 7 x 200 g

Each Wear Metal Standard contains 22 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)	Fe (Iron)	P (Phosphorus)
Al (Aluminum)	K (Potassium)	Pb (Lead)
B (Boron)	Mg (Magnesium)	Si (Silicon)
Ba (Barium)	Mn (Manganese)	Sn (Tin)
Ca (Calcium)	Mo (Molybdenum)	Ti (Titanium)
Cd (Cadmium)	Na (Sodium)	V (Vanadium)
Cr (Chromium)	Ni (Nickel)	Zn (Zinc)
Cu (Copper)		

21 Wear Metal Multi-Element

Conc.	Unit	Cat. No.
10 µg/g	100 g	WM-21-1X-100G
	200 g	WM-21-1X-200G
30 µg/g	100 g	WM-21-3X-100G
	200 g	WM-21-3X-200G
50 µg/g	100 g	WM-21-5X-100G
	200 g	WM-21-5X-200G
100 µg/g	100 g	WM-21-10X-100G
	200 g	WM-21-10X-200G
300 µg/g	100 g	WM-21-30X-100G
	200 g	WM-21-30X-200G
500 µg/g	100 g	WM-21-50X-100G
	200 g	WM-21-50X-200G
900 µg/g	100 g	WM-21-90X-100G
	200 g	WM-21-90X-200G

100 gram Set WM-21-100G-SET
set of above 7 x 100 g

200 gram Set WM-21-200G-SET
set of above 7 x 200 g

Each Wear Metal Standard contains 21 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)	Cu (Copper)	P (Phosphorus)
Al (Aluminum)	Fe (Iron)	Pb (Lead)
B (Boron)	Mg (Magnesium)	Si (Silicon)
Ba (Barium)	Mn (Manganese)	Sn (Tin)
Ca (Calcium)	Mo (Molybdenum)	Ti (Titanium)
Cd (Cadmium)	Na (Sodium)	V (Vanadium)
Cr (Chromium)	Ni (Nickel)	Zn (Zinc)

23 Wear Metal Multi-Element



Conc.	Unit	Cat. No.
10 µg/g	100 g	WM-23-1X-100G
	200 g	WM-23-1X-200G
30 µg/g	100 g	WM-23-3X-100G
	200 g	WM-23-3X-200G
50 µg/g	100 g	WM-23-5X-100G
	200 g	WM-23-5X-200G
100 µg/g	100 g	WM-23-10X-100G
	200 g	WM-23-10X-200G
300 µg/g	100 g	WM-23-30X-100G
	200 g	WM-23-30X-200G
500 µg/g	100 g	WM-23-50X-100G
	200 g	WM-23-50X-200G
900 µg/g	100 g	WM-23-90X-100G
	200 g	WM-23-90X-200G

100 gram Set WM-23-100G-SET
set of above 7 x 100 g

200 gram Set WM-23-200G-SET
set of above 7 x 200 g

Each Wear Metal Standard contains 23 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)	Fe (Iron)	Pb (Lead)
Al (Aluminum)	K (Potassium)	Sb (Antimony)
B (Boron)	Mg (Magnesium)	Si (Silicon)
Ba (Barium)	Mn (Manganese)	Sn (Tin)
Ca (Calcium)	Mo (Molybdenum)	Ti (Titanium)
Cd (Cadmium)	Na (Sodium)	V (Vanadium)
Cr (Chromium)	Ni (Nickel)	Zn (Zinc)
Cu (Copper)	P (Phosphorus)	

These products do not require Hazardous Shipping fee at this time.





Organometallic Standards

Premium Sulfur-Free

- Highly Concentrated Liquid Organometallic Standards
- Stabilized

- Sulfur/Phosphorous free (< 1 ppm)
- Ready for Use

Organometallic Single Element Stock Standards

Sulfur free Element	@ 1000 µg/g Cat. No.	50 mL	@ 5000 µg/g Cat. No.	50 mL
Al (Aluminum)	WM-NMS-01		WM-NMS-01-5X	
Sb (Antimony)	WM-NMS-02		WM-NMS-02-5X	
As (Arsenic) NEW	WM-NMS-03		WM-NMS-03-5X	
Ba (Barium)	WM-NMS-04		WM-NMS-04-5X	
Be (Beryllium) NEW	WM-NMS-05		WM-NMS-05-5X	
Cd (Cadmium)	WM-NMS-08		WM-NMS-08-5X	
Ca (Calcium)	WM-NMS-09		WM-NMS-09-5X	
Ce (Cerium) NEW	WM-NMS-11		WM-NMS-11-5X	
Cr (Chromium)	WM-NMS-13		WM-NMS-13-5X	
Co (Cobalt)	WM-NMS-14		WM-NMS-14-5X	
Cu (Copper)	WM-NMS-15		WM-NMS-15-5X	
Ga (Gallium) NEW	WM-NMS-20		WM-NMS-20-5X	
Au (Gold) NEW	WM-NMS-22		-----	----
Fe (Iron)	WM-NMS-27		WM-NMS-27-5X	
Pb (Lead)	WM-NMS-29		WM-NMS-29-5X	
Li (Lithium) NEW	WM-NMS-30		WM-NMS-30-5X	
Mg (Magnesium)	WM-NMS-32		WM-NMS-32-5X	
Mn (Manganese)	WM-NMS-33		WM-NMS-33-5X	
Hg (Mercury) NEW	WM-NMS-34		WM-NMS-34-5X	
Mo (Molybdenum)	WM-NMS-35		WM-NMS-35-5X	
Ni (Nickel)	WM-NMS-37		WM-NMS-37-5X	
P (Phosphorous)	WM-NMS-41		WM-NMS-41-5X	
K (Potassium)	WM-NMS-43		WM-NMS-43-5X	
Se (Selenium)	WM-NMS-51		WM-NMS-51-5X	
Si (Silicon)	WM-NMS-52		WM-NMS-52-5X	
Ag (Silver) NEW	WM-NMS-53		WM-NMS-53-5X	
Na (Sodium)	WM-NMS-54		WM-NMS-54-5X	
Sr (Strontium)	WM-NMS-55		WM-NMS-55-5X	
Tl (Thallium)	WM-NMS-60		WM-NMS-60-5X	
Sn (Tin) NEW	WM-NMS-63		WM-NMS-63-5X	
Ti (Titanium)	WM-NMS-64		WM-NMS-64-5X	
V (Vanadium)	WM-NMS-67		WM-NMS-67-5X	
Y (Yttrium)	WM-NMS-69		WM-NMS-69-5X	
Zn (Zinc)	WM-NMS-70		WM-NMS-70-5X	
Zr (Zirconium)	WM-NMS-71		WM-NMS-71-5X	

Stabilization Solutions

The solutions were specifically designed for chelating & solubilizing our line of Sulfur-Free Organometallic Standards. Contact Tech Service for additional information.

Stabilizer Solution A

ASTM-P-0122-0.5	50 mL
ASTM-P-0122-1	100 mL

Stabilizer Solution B

ASTM-P-0123-0.5	50 mL
ASTM-P-0123-1	100 mL

Stabilizer Solution C

ASTM-P-0124-0.5	50 mL
ASTM-P-0124-1	100 mL

Stabilizer Solution D

ASTM-P-0125-0.5	50 mL
ASTM-P-0125-1	100 mL

**Premium
Sulfur-Free**
**Sulfur below
detection limits**

**Contains
No Metallic
Sulfonates**

These highly concentrated stabilized solutions can be used for customer specific formulations of additive elements in lubricating oils, iron, nickel and vanadium in residual oil, and wear metals in oils. These organometallic solutions can also be used to prepare single element or multi-element standards for plasma emission (ICP or DCP), rotating disk (rotrode), or atomic absorption spectroscopy (AA). The starting materials are PURE REAGENTS and have been certified against NIST SRM's whenever available. **THEY DO NOT CONTAIN PHOSPHORUS OR SULFUR.**

Organometallic Single Element Concentrates

Element	Conc. (Wt. %)	Cat. No.	25 grams	Cat. No.	50 grams
Al (Aluminum)	3	WM-NMS-01-30X-25G		WM-NMS-01-30X-50G	
Sb (Antimony) NEW		WM-NMS-02-20X-25G		WM-NMS-02-20X-50G	
Ba (Barium)	12.5	WM-NMS-04-125X-25G		WM-NMS-04-125X-50G	
Cd (Cadmium)	10	WM-NMS-08-100X-25G		WM-NMS-08-100X-50G	
Ca (Calcium)	5	WM-NMS-09-50X-25G		WM-NMS-09-50X-50G	
Ce (Cerium) NEW		WM-NMS-11-50X-25G		WM-NMS-11-50X-50G	
Cr (Chromium)	3.5	WM-NMS-13-35X-25G		WM-NMS-13-35X-50G	
Co (Cobalt)	7.5	WM-NMS-14-75X-25G		WM-NMS-14-75X-50G	
Cu (Copper)	6	WM-NMS-15-60X-25G		WM-NMS-15-60X-50G	
Fe (Iron)	4	WM-NMS-27-40X-25G		WM-NMS-27-40X-50G	
Pb (Lead)	20	WM-NMS-29-200X-25G		WM-NMS-29-200X-50G	
Li (Lithium) NEW	1.5	WM-NMS-30-15X-25G		WM-NMS-30-15X-50G	
Mg (Magnesium422)	3	WM-NMS-32-30X-25G		WM-NMS-32-30X-50G	
Mn (Manganese)	6	WM-NMS-33-60X-25G		WM-NMS-33-60X-50G	
Mo (Molybdenum)	5	WM-NMS-35-50X-25G		WM-NMS-35-50X-50G	
Ni (Nickel)	5	WM-NMS-37-50X-25G		WM-NMS-37-50X-50G	
P (Phosphorus)	5	WM-NMS-41-50X-25G		WM-NMS-41-50X-50G	
K (Potassium) NEW		WM-NMS-43-75X-25G		WM-NMS-43-75X-50G	
Pr (Praseodymium)	3	WM-NMS-44-30X-25G		WM-NMS-44-30X-50G	
Se (Selenium)	3.5	WM-NMS-51-35X-25G		WM-NMS-51-35X-50G	
Si (Silicon) NEW	7.5	WM-NMS-52-75X-25G		WM-NMS-52-75X-50G	
Na (Sodium) NEW	2.5	WM-NMS-54-25X-25G		WM-NMS-54-25X-50G	
Sr (Strontium)	10	WM-NMS-55-100X-25G		WM-NMS-55-100X-50G	
Tl (Thallium)	5	WM-NMS-60-50X-25G		WM-NMS-60-50X-50G	
Sn (Tin) NEW		WM-NMS-63-75X-25G		WM-NMS-63-75X-50G	
Ti (Titanium)	5	WM-NMS-64-50X-25G		WM-NMS-64-50X-50G	
V (Vanadium)	4	WM-NMS-67-40X-25G		WM-NMS-67-40X-50G	
Y (Yttrium) NEW	2.5	WM-NMS-69-25X-25G		WM-NMS-69-25X-50G	
Zn (Zinc)	6	WM-NMS-70-60X-25G		WM-NMS-70-60X-50G	
Zr (Zirconium)	5	WM-NMS-71-50X-25G		WM-NMS-71-50X-50G	

Technical Note

These standards are **sulfur free** (below detection limits) **organometallic standards** for X-ray Fluorescence (XRF), plasma emission (ICP or DCP), rotating disk (rotrode), or atomic absorption (AA). They are stabilized for blending together with other Analytes to prepare multi-element standards.

Organometallic Standards

Premium Sulfur-Free



11 Wear Metal Multi-Element

Conc.	Unit	Cat. No.
10 µg/g	100 mL	WM-11-NMS-1X-1
30 µg/g	100 mL	WM-11-NMS-3X-1
50 µg/g	100 mL	WM-11-NMS-5X-1
100 µg/g	100 mL	WM-11-NMS-10X-1
300 µg/g	100 mL	WM-11-NMS-30X-1
500 µg/g	100 mL	WM-11-NMS-50X-1
900 µg/g	100 mL	WM-11-NMS-90X-1

100 mL Set **WM-11-NMS-1-SET**
set of above 7 x 100 mL

Each Wear Metal Standard contains 11 elements listed below in hydrocarbon oil at the stated concentration.

Al (Aluminum)	Mg (Magnesium)	Si (Silicon)
Cr (Chromium)	Na (Sodium)	Sn (Tin)
Cu (Copper)	Ni (Nickel)	Ti (Titanium)
Fe (Iron)	Pb (Lead)	

12 Wear Metal Multi-Element

Conc.	Unit	Cat. No.
10 µg/g	100 mL	WM-12-NMS-1X-1
30 µg/g	100 mL	WM-12-NMS-3X-1
50 µg/g	100 mL	WM-12-NMS-5X-1
100 µg/g	100 mL	WM-12-NMS-10X-1
300 µg/g	100 mL	WM-12-NMS-30X-1
500 µg/g	100 mL	WM-12-NMS-50X-1
900 µg/g	100 mL	WM-12-NMS-90X-1

100 mL Set **WM-12-NMS-1-SET**
set of above 7 x 100 mL

Each Wear Metal Standard contains 12 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)	Fe (Iron)	Pb (Lead)
Al (Aluminum)	Mg (Magnesium)	Si (Silicon)
Cr (Chromium)	Na (Sodium)	Sn (Tin)
Cu (Copper)	Ni (Nickel)	Ti (Titanium)

Contains
No Metallic
Sulfonates

Premium
Sulfur-Free

Sulfur below
detection limits

20 Wear Metal Multi-Element

Conc.	Unit	Cat. No.
10 µg/g	100 mL	WM-20-NMS-1X-1
30 µg/g	100 mL	WM-20-NMS-3X-1
50 µg/g	100 mL	WM-20-NMS-5X-1
100 µg/g	100 mL	WM-20-NMS-10X-1
300 µg/g	100 mL	WM-20-NMS-30X-1
500 µg/g	100 mL	WM-20-NMS-50X-1
900 µg/g	100 mL	WM-20-NMS-90X-1

100 mL Set **WM-20-NMS-1-SET**
set of above 7 x 100 mL

Each Wear Metal Standard contains 20 elements listed below in hydrocarbon oil at the stated concentration.

Al (Aluminum)	Fe (Iron)	Pb (Lead)
B (Boron)	Mg (Magnesium)	Si (Silicon)
Ba (Barium)	Mn (Manganese)	Sn (Tin)
Ca (Calcium)	Mo (Molybdenum)	Ti (Titanium)
Cd (Cadmium)	Na (Sodium)	V (Vanadium)
Cr (Chromium)	Ni (Nickel)	Zn (Zinc)
Cu (Copper)	P (Phosphorus)	

21 Wear Metal Multi-Element

Conc.	Unit	Cat. No.
10 µg/g	100 mL	WM-21-NMS-1X-1
30 µg/g	100 mL	WM-21-NMS-3X-1
50 µg/g	100 mL	WM-21-NMS-5X-1
100 µg/g	100 mL	WM-21-NMS-10X-1
300 µg/g	100 mL	WM-21-NMS-30X-1
500 µg/g	100 mL	WM-21-NMS-50X-1
900 µg/g	100 mL	WM-21-NMS-90X-1

100 mL Set **WM-21-NMS-1-SET**
set of above 7 x 100 mL

Each Wear Metal Standard contains 21 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)	Cu (Copper)	P (Phosphorus)
Al (Aluminum)	Fe (Iron)	Pb (Lead)
B (Boron)	Mg (Magnesium)	Si (Silicon)
Ba (Barium)	Mn (Manganese)	Sn (Tin)
Ca (Calcium)	Mo (Molybdenum)	Ti (Titanium)
Cd (Cadmium)	Na (Sodium)	V (Vanadium)
Cr (Chromium)	Ni (Nickel)	Zn (Zinc)

Recommended
Internal Standard

Organometallic (Internal Standard) Sulfur free

	Conc.	Cat. No.	50 mL
Cobalt	1000 µg/g	WM-NMS-14	
	5000 µg/g	WM-NMS-14-5X	

These products do not require Hazardous Shipping fee at this time.



Organometallic Standards

AA, ICP, DCP & XRF Analysis

Sulfur and Metals in Oil

Sulfur and Metals in Mineral Oil

ASTM-P-0100-SET				12 x 100 mL 100 mL
Cat. No.	Sulfur (Wt. %)	Nickel (µg/g)	Vanadium (µg/g)	
ASTM-P-0100-01	0.00	0	0	
ASTM-P-0100-02	0.50	10	500	
ASTM-P-0100-03	1.00	100	25	
ASTM-P-0100-04	1.50	80	250	
ASTM-P-0100-05	2.00	40	100	
ASTM-P-0100-06	2.50	5	400	
ASTM-P-0100-07	3.00	60	300	
ASTM-P-0100-08	3.50	0	200	
ASTM-P-0100-09	4.00	100	0	
ASTM-P-0100-10	4.50	50	250	
ASTM-P-0100-11	5.00	20	500	
ASTM-P-0100-12	5.50	100	50	

Sulfur and Metals in Residual Fuel Oil

ASTM-P-0101-SET				12 x 100 mL 100 mL
Cat. No.	Sulfur (Wt. %)	Nickel (µg/g)	Vanadium (µg/g)	
ASTM-P-0101-01	0.00	0	0	
ASTM-P-0101-02	0.50	10	500	
ASTM-P-0101-03	1.00	100	25	
ASTM-P-0101-04	1.50	80	250	
ASTM-P-0101-05	2.00	40	100	
ASTM-P-0101-06	2.50	5	400	
ASTM-P-0101-07	3.00	60	300	
ASTM-P-0101-08	3.50	0	200	
ASTM-P-0101-09	4.00	100	0	
ASTM-P-0101-10	4.50	50	250	
ASTM-P-0101-11	5.00	20	500	
ASTM-P-0101-12	5.50	100	50	

Test Method A - ICP with an Organic Solvent Specimen Solution

Sulfur and Metals in Mineral Oil

Designed for ASTM D5708

ASTM-P-0102-SET					12 x 100 mL 100 mL
Cat. No.	Sulfur (Wt. %)	Iron (µg/g)	Nickel (µg/g)	Vanadium (µg/g)	
ASTM-P-0102-01	0.00	0	0	0	
ASTM-P-0102-02	0.50	300	10	500	
ASTM-P-0102-03	1.00	500	100	25	
ASTM-P-0102-04	-----	100	80	250	
ASTM-P-0102-05	2.00	200	40	100	
ASTM-P-0102-06	2.50	400	5	400	
ASTM-P-0102-07	3.00	0	60	300	
ASTM-P-0102-08	3.50	500	0	200	
ASTM-P-0102-09	-----	100	100	0	
ASTM-P-0102-10	4.50	300	50	250	
ASTM-P-0102-11	5.00	200	20	500	
ASTM-P-0102-12	5.50	50	100	50	

Sulfur and Metals in Residual Fuel Oil

Designed for
ASTM D5708

ASTM-P-0103-SET					12 x 100 mL 100 mL
Cat. No.	Sulfur (Wt. %)	Iron (µg/g)	Nickel (µg/g)	Vanadium (µg/g)	
ASTM-P-0103-01	0.00	0	0	0	
ASTM-P-0103-02	0.50	300	10	500	
ASTM-P-0103-03	1.00	500	100	25	
ASTM-P-0103-04	-----	100	80	250	
ASTM-P-0103-05	2.00	200	40	100	
ASTM-P-0103-06	2.50	400	5	400	
ASTM-P-0103-07	3.00	0	60	300	
ASTM-P-0103-08	3.50	500	0	200	
ASTM-P-0103-09	-----	100	100	0	
ASTM-P-0103-10	4.50	300	50	250	
ASTM-P-0103-11	5.00	200	20	500	
ASTM-P-0103-12	5.50	50	100	50	

Stock Multi-Element in Mineral Oil

D-5708-A-10X 100 mL
100 µg/g in 20 cSt mineral oil 3 comps.

Iron
Nickel
Vanadium

After Acid Decomposition of Sample

Working Level Multi-Element Aqueous Standard

D-5708-B-5 Δ 500 mL
10 µg/mL each in 2-5% HNO₃ 3 comps.

Iron
Nickel
Vanadium

Stock Multi-Element Aqueous Standard

D-5863-95A-10X-1 Δ 1 x 100 mL
2-5% HNO₃ 3 comps.

Iron 100
Nickel 200
Vanadium 200

Nitric Acid Blank

CLP-BLN-5 Δ 500 mL
CLP-BLN-L-VAP Δ 1 L (2 x 500 mL)

5% HNO₃ in ASTM Type I Water

Stock Multi-Element Aqueous Standard

D-5708-B-10X-1 Δ 100 mL
D-5708-B-10X-5 Δ 500 mL
100 µg/mL each in 2-5% HNO₃ 3 comps.

Iron
Nickel
Vanadium

Stock Multi-Element Standard in Mineral Oil

D-5863-95B-10X 1 x 100 g
At stated conc. (µg/g) in 20 cst Mineral Oil 3 comps.

Sodium 50
Nickel 200
Vanadium 150

ISO/CD 14597 Vanadium and Nickel Standards with Manganese (Internal Standard)

Vanadium Standards - Low Range for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0104-SET			9 x 100 mL
Cat. No.	Vanadium Conc. (Wt.%)	100 mL	
ASTM-P-0104-01	0.0005		
ASTM-P-0104-02	0.0025		
ASTM-P-0104-03	0.0050		
ASTM-P-0104-04	0.0075		
ASTM-P-0104-05	0.0100		
ASTM-P-0104-06	0.0125		
ASTM-P-0104-07	0.0150		
ASTM-P-0104-08	0.0175		
ASTM-P-0104-09	0.0200		

Vanadium Standards - High Range for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0105-SET			7 x 100 mL
Cat. No.	Vanadium Conc. (Wt.%)	100 mL	
ASTM-P-0105-01	0.0000		
ASTM-P-0105-02	0.0300		
ASTM-P-0105-03	0.0400		
ASTM-P-0105-04	0.0500		
ASTM-P-0105-05	0.0600		
ASTM-P-0105-06	0.0800		
ASTM-P-0105-07	0.1000		

Internal Standard

ASTM-P-0107-5 500 mL

Manganese @ 0.05 Wt. % in Xylene-Mineral Oil

Nickel Standards for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0106-SET			7 x 100 mL
Cat. No.	Nickel Conc. (Wt.%)	100 mL	
ASTM-P-0106-01	0.0000		
ASTM-P-0106-02	0.0005		
ASTM-P-0106-03	0.0010		
ASTM-P-0106-04	0.0025		
ASTM-P-0106-05	0.0050		
ASTM-P-0106-06	0.0075		
ASTM-P-0106-07	0.0100		

Δ Requires a Hazardous Shipping Fee

Organometallic Standards

AA, ICP, DCP & XRF Analysis



Lubricating Oil Standards

ASTM-P-0108-SET

17 x 100 mL

Designed for ASTM D6481

Cat. No.	Ca	P	S	Zn
Nominal Value	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)
ASTM-P-0108-01	0.600	0.005	0.175	0.060
ASTM-P-0108-02	0.500	0.200	0.050	0.080
ASTM-P-0108-03	0.400	0.150	0.300	0.180
ASTM-P-0108-04	0.260	0.250	0.150	0.120
ASTM-P-0108-05	0.005	0.005	0.450	0.070
ASTM-P-0108-06	0.400	0.025	0.350	0.100
ASTM-P-0108-07	0.300	0.060	0.250	0.120
ASTM-P-0108-08	0.200	0.100	0.450	0.100
ASTM-P-0108-09	0.060	0.080	0.300	0.130
ASTM-P-0108-10	0.060	0.050	0.200	0.050
ASTM-P-0108-11	0.050	0.120	0.100	0.075
ASTM-P-0108-12	0.025	0.150	0.200	0.130
ASTM-P-0108-13	0.005	0.200	0.400	0.150
ASTM-P-0108-14	0.170	0.250	0.550	0.110
ASTM-P-0108-15	0.100	0.100	0.200	0.200
ASTM-P-0108-16	0.010	0.010	0.600	0.250
ASTM-P-0108-17	0.000	0.000	0.000	0.000

ASTM-P-0109-SET

17 x 100 mL

Cat. No.	Ca	Cl	P	S	Zn
Nominal Value	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)
ASTM-P-0109-01	0.600	0.100	0.005	0.175	0.060
ASTM-P-0109-02	0.500	0.000	0.200	0.050	0.080
ASTM-P-0109-03	0.400	0.010	0.150	0.300	0.180
ASTM-P-0109-04	0.260	0.500	0.250	0.150	0.120
ASTM-P-0109-05	0.005	1.000	0.005	0.450	0.070
ASTM-P-0109-06	0.400	0.400	0.025	0.350	0.100
ASTM-P-0109-07	0.300	0.100	0.060	0.250	0.120
ASTM-P-0109-08	0.200	0.010	0.100	0.450	0.100
ASTM-P-0109-09	0.060	0.050	0.080	0.300	0.130
ASTM-P-0109-10	0.060	0.200	0.050	0.200	0.050
ASTM-P-0109-11	0.050	0.500	0.120	0.100	0.075
ASTM-P-0109-12	0.025	0.800	0.150	0.200	0.130
ASTM-P-0109-13	0.005	1.000	0.200	0.400	0.150
ASTM-P-0109-14	0.170	0.600	0.250	0.550	0.110
ASTM-P-0109-15	0.100	0.200	0.100	0.200	0.200
ASTM-P-0109-16	0.010	0.400	0.010	0.600	0.250
ASTM-P-0109-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0110-SET

17 x 100 mL

Designed for ASTM D4927

Cat. No.	Ba	Ca	P	S	Zn
Nominal Value	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)
ASTM-P-0110-01	0.100	0.600	0.005	0.175	0.060
ASTM-P-0110-02	0.175	0.500	0.200	0.050	0.080
ASTM-P-0110-03	0.000	0.400	0.150	0.300	0.180
ASTM-P-0110-04	0.025	0.260	0.250	0.150	0.120
ASTM-P-0110-05	0.150	0.005	0.005	0.450	0.070
ASTM-P-0110-06	0.000	0.400	0.025	0.350	0.100
ASTM-P-0110-07	0.200	0.300	0.060	0.250	0.120
ASTM-P-0110-08	0.000	0.200	0.100	0.450	0.100
ASTM-P-0110-09	0.100	0.060	0.080	0.300	0.130
ASTM-P-0110-10	0.050	0.060	0.050	0.200	0.050
ASTM-P-0110-11	0.075	0.050	0.120	0.100	0.075
ASTM-P-0110-12	0.010	0.025	0.150	0.200	0.130
ASTM-P-0110-13	0.005	0.005	0.200	0.400	0.150
ASTM-P-0110-14	0.000	0.170	0.250	0.550	0.110
ASTM-P-0110-15	0.000	0.100	0.100	0.200	0.200
ASTM-P-0110-16	0.005	0.010	0.010	0.600	0.250
ASTM-P-0110-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0111-SET

17 x 100 mL

Designed for ASTM D4927

Cat. No.	Ba	Ca	Cl	P	S	Zn
Nominal Value	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)
ASTM-P-0111-01	0.100	0.600	0.100	0.005	0.175	0.060
ASTM-P-0111-02	0.175	0.500	0.000	0.200	0.050	0.080
ASTM-P-0111-03	0.000	0.400	0.010	0.150	0.300	0.180
ASTM-P-0111-04	0.025	0.260	0.500	0.250	0.150	0.120
ASTM-P-0111-05	0.150	0.005	1.000	0.005	0.450	0.070
ASTM-P-0111-06	0.000	0.400	0.400	0.025	0.350	0.100
ASTM-P-0111-07	0.200	0.300	0.100	0.060	0.250	0.120
ASTM-P-0111-08	0.000	0.200	0.010	0.100	0.450	0.100
ASTM-P-0111-09	0.100	0.060	0.050	0.080	0.300	0.130
ASTM-P-0111-10	0.050	0.060	0.200	0.050	0.200	0.050
ASTM-P-0111-11	0.075	0.050	0.500	0.120	0.100	0.075
ASTM-P-0111-12	0.010	0.025	0.800	0.150	0.200	0.130
ASTM-P-0111-13	0.005	0.005	1.000	0.200	0.400	0.150
ASTM-P-0111-14	0.000	0.170	0.600	0.250	0.550	0.110
ASTM-P-0111-15	0.000	0.100	0.200	0.100	0.200	0.200
ASTM-P-0111-16	0.005	0.010	0.400	0.010	0.600	0.250
ASTM-P-0111-17	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0112-SET

17 x 100 mL

Cat. No.	Ca	Mg	P	S	Zn
Nominal Value	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)
ASTM-P-0112-01	0.600	0.100	0.005	0.175	0.060
ASTM-P-0112-02	0.500	0.150	0.200	0.050	0.080
ASTM-P-0112-03	0.400	0.350	0.150	0.300	0.180
ASTM-P-0112-04	0.260	0.225	0.250	0.150	0.120
ASTM-P-0112-05	0.005	0.450	0.005	0.450	0.070
ASTM-P-0112-06	0.400	0.500	0.025	0.350	0.100
ASTM-P-0112-07	0.300	0.325	0.060	0.250	0.120
ASTM-P-0112-08	0.200	0.250	0.100	0.450	0.100
ASTM-P-0112-09	0.060	0.100	0.080	0.300	0.130
ASTM-P-0112-10	0.060	0.400	0.050	0.200	0.050
ASTM-P-0112-11	0.050	0.300	0.120	0.100	0.075
ASTM-P-0112-12	0.025	0.200	0.150	0.200	0.130
ASTM-P-0112-13	0.005	0.375	0.200	0.400	0.150
ASTM-P-0112-14	0.170	0.175	0.250	0.550	0.110
ASTM-P-0112-15	0.100	0.425	0.100	0.200	0.200
ASTM-P-0112-16	0.010	0.275	0.010	0.600	0.250
ASTM-P-0112-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0113-SET

17 x 100 mL

Designed for ASTM D4628 & D4927

Cat. No.	Ba	Ca	Mg	P	S	Zn
Nominal Value	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)	(Wt.%)
ASTM-P-0113-01	0.025	0.600	0.100	0.005	0.175	0.060
ASTM-P-0113-02	0.000	0.500	0.150	0.200	0.050	0.080
ASTM-P-0113-03	0.100	0.400	0.350	0.150	0.300	0.180
ASTM-P-0113-04	0.175	0.260	0.225	0.250	0.150	0.120
ASTM-P-0113-05	0.150	0.005	0.450	0.005	0.450	0.070
ASTM-P-0113-06	0.000	0.400	0.500	0.025	0.350	0.100
ASTM-P-0113-07	0.100	0.300	0.325	0.060	0.250	0.120
ASTM-P-0113-08	0.200	0.200	0.250	0.100	0.450	0.100
ASTM-P-0113-09	0.050	0.060	0.100	0.080	0.300	0.130
ASTM-P-0113-10	0.075	0.060	0.400	0.050	0.200	0.050
ASTM-P-0113-11	0.010	0.050	0.300	0.120	0.100	0.075
ASTM-P-0113-12	0.000	0.025	0.200	0.150	0.200	0.130
ASTM-P-0113-13	0.175	0.005	0.375	0.200	0.400	0.150
ASTM-P-0113-14	0.005	0.170	0.175	0.250	0.550	0.110
ASTM-P-0113-15	0.000	0.100	0.425	0.100	0.200	0.200
ASTM-P-0113-16	0.005	0.010	0.275	0.010	0.600	0.250
ASTM-P-0113-17	0.000	0.000	0.000	0.000	0.000	0.000

These products do not require Hazardous Shipping Fees at this time.



Organometallic Standards

AA, ICP, DCP & XRF Analysis

Lubricating Oil Standards (Continued)

ASTM-P-0114-SET

17 x 100 mL

EDXRF ASTM Method

Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0114-01	0.005	0.005	0.050	0.050
ASTM-P-0114-02	0.600	0.000	0.000	0.000
ASTM-P-0114-03	0.000	0.300	0.000	0.000
ASTM-P-0114-04	1.000	0.000	1.000	0.000
ASTM-P-0114-05	0.000	0.000	0.000	0.300
ASTM-P-0114-06	0.005	0.250	0.800	0.300
ASTM-P-0114-07	0.500	0.150	0.500	0.150
ASTM-P-0114-08	0.010	0.200	0.100	0.250
ASTM-P-0114-09	0.050	0.010	0.400	0.075
ASTM-P-0114-10	0.100	0.150	0.200	0.200
ASTM-P-0114-11	0.200	0.200	0.800	0.100
ASTM-P-0114-12	0.400	0.005	0.800	0.300
ASTM-P-0114-13	0.600	0.100	0.500	0.050
ASTM-P-0114-14	0.800	0.010	0.050	0.100
ASTM-P-0114-15	1.000	0.300	1.000	0.150
ASTM-P-0114-16	0.400	0.050	0.600	0.250
ASTM-P-0114-17	0.000	0.000	0.000	0.000

ASTM-P-0115-SET

17 x 100 mL

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)	Mg (Wt.%)
ASTM-P-0115-01	0.005	0.005	0.050	0.050	0.100
ASTM-P-0115-02	0.600	0.000	0.000	0.000	0.150
ASTM-P-0115-03	0.000	0.300	0.000	0.000	0.350
ASTM-P-0115-04	1.000	0.000	1.000	0.000	0.225
ASTM-P-0115-05	0.000	0.000	0.000	0.300	0.450
ASTM-P-0115-06	0.005	0.250	0.800	0.300	0.500
ASTM-P-0115-07	0.500	0.150	0.500	0.150	0.325
ASTM-P-0115-08	0.010	0.200	0.100	0.250	0.250
ASTM-P-0115-09	0.050	0.010	0.400	0.075	0.050
ASTM-P-0115-10	0.100	0.150	0.200	0.200	0.400
ASTM-P-0115-11	0.200	0.200	0.800	0.100	0.300
ASTM-P-0115-12	0.400	0.005	0.800	0.300	0.200
ASTM-P-0115-13	0.600	0.100	0.500	0.050	0.375
ASTM-P-0115-14	0.800	0.010	0.050	0.100	0.175
ASTM-P-0115-15	1.000	0.300	1.000	0.150	0.425
ASTM-P-0115-16	0.400	0.050	0.600	0.250	0.275
ASTM-P-0115-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0116-SET

11 x 100 mL

Additives

Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0116-01	0.500	1.000	0.500	0.500
ASTM-P-0116-02	3.000	1.000	3.000	2.000
ASTM-P-0116-03	2.000	1.250	1.000	1.500
ASTM-P-0116-04	5.000	1.500	0.500	1.200
ASTM-P-0116-05	4.000	0.500	1.500	0.750
ASTM-P-0116-06	2.500	0.750	4.000	1.000
ASTM-P-0116-07	4.000	0.500	2.000	1.250
ASTM-P-0116-08	0.500	2.000	5.000	1.000
ASTM-P-0116-09	1.000	0.750	2.000	1.500
ASTM-P-0116-10	2.500	1.200	3.000	0.500
ASTM-P-0116-11	0.000	0.000	0.000	0.000

ASTM-P-0117-SET

10 x 100 mL

WLXRF ASTM Method

Designed for ASTM D6443

Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0117-01	0.020	0.030	0.010	0.200	0.250	1.000	0.020
ASTM-P-0117-02	0.020	0.020	0.050	0.200	0.020	0.020	0.250
ASTM-P-0117-03	0.020	0.200	0.010	0.040	0.250	0.150	0.250
ASTM-P-0117-04	0.020	0.200	0.050	0.040	0.020	1.000	0.020
ASTM-P-0117-05	0.400	0.020	0.010	0.040	0.020	1.000	0.250
ASTM-P-0117-06	0.400	0.020	0.050	0.040	0.250	0.020	0.020
ASTM-P-0117-07	0.400	0.200	0.010	0.200	0.020	0.020	0.050
ASTM-P-0117-08	0.400	0.200	0.050	0.200	0.250	1.000	0.250
ASTM-P-0117-09	0.200	0.100	0.025	0.080	0.150	0.500	0.100
ASTM-P-0117-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0118-SET

10 x 100 mL

WLXRF ASTM Method

Designed for ASTM D4628, D4927, D4951, D6443

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0118-01	0.020	0.020	0.030	0.010	0.200	0.250	1.000	0.020
ASTM-P-0118-02	0.250	0.020	0.020	0.050	0.200	0.020	0.020	0.250
ASTM-P-0118-03	0.020	0.020	0.200	0.010	0.040	0.250	0.150	0.250
ASTM-P-0118-04	0.250	0.020	0.200	0.050	0.040	0.020	1.000	0.020
ASTM-P-0118-05	0.020	0.400	0.020	0.010	0.040	0.020	1.000	0.250
ASTM-P-0118-06	0.250	0.400	0.020	0.050	0.040	0.250	0.020	0.020
ASTM-P-0118-07	0.020	0.400	0.200	0.010	0.200	0.020	0.020	0.050
ASTM-P-0118-08	0.250	0.400	0.200	0.050	0.200	0.250	1.000	0.250
ASTM-P-0118-09	0.130	0.200	0.100	0.025	0.080	0.150	0.500	0.100
ASTM-P-0118-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



Lubricating Oil Standards (Continued)

ASTM-P-0119-SET

22 x 100 mL

Designed for ASTM D4628, D4927, D4951, D6443

Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0119-01	0.300	0.080	0.030	0.060	0.060	0.275	0.060
ASTM-P-0119-02	0.250	0.100	0.000	0.010	0.150	0.000	0.150
ASTM-P-0119-03	0.500	0.000	0.035	0.160	0.150	0.000	0.020
ASTM-P-0119-04	0.350	0.010	0.000	0.120	0.080	0.200	0.000
ASTM-P-0119-05	0.110	0.000	0.015	0.100	0.100	0.300	0.050
ASTM-P-0119-06	0.200	0.100	0.000	0.200	0.050	0.250	0.150
ASTM-P-0119-07	0.000	0.050	0.025	0.000	0.000	0.450	0.020
ASTM-P-0119-08	0.150	0.030	0.000	0.100	0.030	0.400	0.040
ASTM-P-0119-09	0.250	0.150	0.010	0.160	0.000	0.350	0.080
ASTM-P-0119-10	0.110	0.150	0.040	0.005	0.030	0.750	0.150
ASTM-P-0119-11	0.260	0.050	0.000	0.000	0.000	0.750	0.000
ASTM-P-0119-12	0.200	0.000	0.005	0.140	0.080	0.500	0.080
ASTM-P-0119-13	0.000	0.000	0.005	0.020	0.020	0.200	0.020
ASTM-P-0119-14	0.070	0.150	0.020	0.080	0.140	0.650	0.150
ASTM-P-0119-15	0.050	0.000	0.000	0.000	0.150	0.000	0.000
ASTM-P-0119-16	0.400	0.000	0.001	0.080	0.000	0.500	0.020
ASTM-P-0119-17	0.180	0.020	0.020	0.000	0.020	0.600	0.060
ASTM-P-0119-18	0.400	0.010	0.001	0.010	0.020	0.000	0.000
ASTM-P-0119-19	0.010	0.020	0.040	0.010	0.020	0.200	0.100
ASTM-P-0119-20	0.050	0.005	0.050	0.000	0.008	0.000	0.120
ASTM-P-0119-21	0.200	0.050	0.020	0.080	0.050	0.275	0.050
ASTM-P-0119-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Standards of Interest

Concentration for the sets on pages 409-411 are targets. Actual production lots may vary.

These products do not require Hazardous Shipping charges at this time.

ASTM-P-0120-SET

23 x 100 mL

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0120-01	0.100	0.300	0.080	0.030	0.060	0.060	0.275	0.060
ASTM-P-0120-02	0.175	0.250	0.100	0.000	0.010	0.150	0.000	0.150
ASTM-P-0120-03	0.040	0.500	0.000	0.035	0.160	0.150	0.000	0.020
ASTM-P-0120-04	0.020	0.350	0.010	0.000	0.120	0.080	0.200	0.000
ASTM-P-0120-05	0.150	0.110	0.000	0.015	0.100	0.100	0.300	0.050
ASTM-P-0120-06	0.000	0.200	0.100	0.000	0.200	0.050	0.250	0.150
ASTM-P-0120-07	0.200	0.000	0.050	0.025	0.000	0.000	0.450	0.020
ASTM-P-0120-08	0.000	0.150	0.030	0.000	0.100	0.030	0.400	0.040
ASTM-P-0120-09	0.000	0.250	0.150	0.010	0.160	0.000	0.350	0.080
ASTM-P-0120-10	0.000	0.110	0.150	0.040	0.005	0.030	0.750	0.150
ASTM-P-0120-11	0.100	0.260	0.050	0.000	0.000	0.000	0.750	0.000
ASTM-P-0120-12	0.050	0.200	0.000	0.005	0.140	0.080	0.500	0.080
ASTM-P-0120-13	0.000	0.000	0.000	0.005	0.020	0.020	0.200	0.020
ASTM-P-0120-14	0.080	0.070	0.150	0.020	0.080	0.140	0.650	0.150
ASTM-P-0120-15	0.010	0.050	0.000	0.000	0.000	0.150	0.000	0.000
ASTM-P-0120-16	0.000	0.400	0.000	0.001	0.080	0.000	0.500	0.020
ASTM-P-0120-17	0.000	0.180	0.020	0.020	0.000	0.020	0.600	0.060
ASTM-P-0120-18	0.000	0.400	0.010	0.001	0.010	0.020	0.000	0.000
ASTM-P-0120-19	0.150	0.010	0.020	0.040	0.010	0.020	0.200	0.100
ASTM-P-0120-20	0.005	0.050	0.005	0.050	0.000	0.008	0.000	0.120
ASTM-P-0120-21	0.100	0.200	0.050	0.020	0.080	0.050	0.275	0.050
ASTM-P-0120-22	0.120	0.200	0.000	0.000	0.000	0.000	0.750	0.000
ASTM-P-0120-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Metal Working Fluids

ASTM-P-0121-SET

13 x 100 mL

Cat. No. Nominal Value	Cl (Wt.%)	P (Wt.%)	S (Wt.%)
ASTM-P-0121-01	0.000	0.000	0.000
ASTM-P-0121-02	0.750	0.025	0.500
ASTM-P-0121-03	0.050	0.100	3.000
ASTM-P-0121-04	1.000	0.500	2.500
ASTM-P-0121-05	0.100	0.005	2.000
ASTM-P-0121-06	1.500	0.200	1.000
ASTM-P-0121-07	2.000	0.005	3.000
ASTM-P-0121-08	1.000	0.050	0.100
ASTM-P-0121-09	0.500	0.400	0.000
ASTM-P-0121-10	2.000	0.200	1.500
ASTM-P-0121-11	0.000	0.500	1.500
ASTM-P-0121-12	1.250	0.010	0.050
ASTM-P-0121-13	0.050	0.300	0.050

Stabilization Solutions

The solutions were specifically designed for chelating & solubilizing our line of Sulfur-Free Organometallic Standards. Contact Tech Service for additional information.

Stabilizer Solution A

ASTM-P-0122-0.5
ASTM-P-0122-1

50 mL
100 mL

Stabilizer Solution C

ASTM-P-0124-0.5
ASTM-P-0124-1

50 mL
100 mL

Stabilizer Solution B

ASTM-P-0123-0.5
ASTM-P-0123-1

50 mL
100 mL

Stabilizer Solution D

ASTM-P-0125-0.5
ASTM-P-0125-1

50 mL
100 mL

ASTM D3230 Determination of Salts in Crude Oil

Mixed Salt Solution

D-3230-89-1 Δ 100 mL
 D-3230-89-5 Δ 500 mL
 At stated conc. in Alcohol Solution (1-butanol : MeOH) (ratio 63:37) tr. H₂O 3 comps.

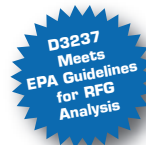
Calcium chloride	10 µg/mL	Sodium chloride	70 µg/mL
Magnesium chloride	20 µg/mL		

ASTM D3237 Lead in Gasoline by AA Spectroscopy

Lead Standard Calibration Curve

D-3237-CAL-SET Δ 4 x 100 mL
 Set includes the following Catalog Numbers:

Description	Cat. No.	100 mL
Blank 1% Aliquot 336/MIBK	D-3237-01	
0.02 g Pb / gal (5.3 mg Pb/ L) in 1% Aliquot 336 / MIBK	D-3237-02	
0.05 g Pb / gal (13.2 mg Pb/ L) in 1% Aliquot 336 / MIBK	D-3237-03	
0.10 g Pb / gal (26.4 mg Pb/ L) in 1% Aliquot 336 / MIBK	D-3237-04	



ASTM D3605 Trace Metals in Gas Turbine Fuels by AA & Flame Emission & Spectroscopy

Trace Metals Standard

D-3605-91-1 1 x 100 mL
 At stated conc. in 1,2,3,4-Tetrahydronaphthalene 4 comps.

Na (Sodium)	(250 µg/mL)	Ca (Calcium)	(250 µg/mL)
Pb (Lead)	(250 µg/mL)	V (Vanadium)	(250 µg/mL)

Standards of Interest

See Table of Contents for a complete listing of Wear Metal Standards.

ASTM D3831 Manganese in Gasoline by AA Spectroscopy

Manganese Stock Solution

D-3831 Δ 1 x 100 mL

Manganese @ 1.0 g Mn / gal (264.2 mg Mn / L) in Methyl isobutyl ketone

Δ Requires a Hazardous Shipping Fee



Over 40,000 Standards, just a click away

(Over 10,000 Listed and over 30,000 formulated custom standards)

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Solid Waste Analysis

Solid Matrix Standards



AccuStandard offers a broad range of trace element standards in Solid Matrices to meet the requirements for “real world” solid waste reference materials. All Standards are furnished with a Certificate of Analysis, with the mean values, standard deviations, confidence intervals and performance intervals. A list of additional elements/analytes, instructions and other pertinent information is also included. Values listed on the Certificate are generally the result of round robin analyses consisting of testing conducted by an average of 20 independent laboratories.

- Ideal for both AA and ICP Analysis
- Certified by EPA Methods and Protocols
- NATURAL Matrix, Not spiked or fortified

- US EPA SW-846, 3rd Edition Method 3050
- Method 1311
- Lead Abatement Program Material

Metals in Sludges

Metal Concentration (in mg/Kg)	Paint Sludge CRM006-050 50 g	Plating Sludge #1 CRM009-100 120 g	Plating Sludge #2 CRM010-100 100 g	Plating Sludge #3 (POTW) CRM011-100 100 g	Raw Sewage CRM018-050 50 g
Al (Aluminum)	73	(890)	692	(20)	22,436
Sb (Antimony)	----	(9)	----	(10)	ND
As (Arsenic)	----	(20)	----	(20)	6.63
Ba (Barium)	9,970	(50)	175	(5)	1,103
Be (Beryllium)	----	----	----	----	0.30
B (Boron)	(53)	(150)	102	(18,000)	(25.8)
Cd (Cadmium)	32	(1)	----	(4)	5.57
Ca (Calcium)	111	(1,100)	563	(180)	49,068
Cr (Chromium)	11	50	79	59,225	40.1
Co (Cobalt)	----	(7)	----	(10)	3.22
Cu (Copper)	(6)	121,415	63,169	108	840
Fe (Iron)	64	(3,800)	2,699	(4,700)	9,903
Pb (Lead)	753	(14,230)	119,344	269	126
Mg (Magnesium)	47	(150)	(80)	(50)	4,302
Mn (Manganese)	(1)	(40)	17	(30)	200
Hg (Mercury)	----	(1)	(2)	(10)	4.78
Mo (Molybdenum)	----	(20)	(32)	----	10.5
Ni (Nickel)	(2)	343	194	41,975	20.4
P (Phosphorus)	----	----	----	----	----
K (Potassium)	8,710	(640)	----	(49,000)	2,657
Se (Selenium)	(3)	----	----	(4)	8.38
Si (Silicon)	----	----	----	----	(609)
Ag (Silver)	----	9	56	(1)	72.1
Na (Sodium)	91	(18,000)	1,576	(23,000)	1,002
Sr (Strontium)	(90)	(30)	----	(1)	420
Tl (Thallium)	(40)	(30)	----	(20)	ND
Sn (Tin)	(100)	(38,000)	----	(120)	----
Ti (Titanium)	(2)	(70)	----	(2)	----
V (Vanadium)	----	(1)	----	(20)	39.2
Zn (Zinc)	737,431	(40)	183	----	1,121

All values expressed in mg/Kg, parts per million (ppm) unless otherwise noted.

TCLP Metals - Method 1311

Metal Conc. in mg/L	Soil from Superfund Site CRM202-225 225 g	Soil from Superfund Site CRM204-225 225 g	Ash from Incinerator CRM205-225 225 g	Soil from Superfund Site CRM206-225 225 g	Soil from Superfund Site CRM207-225 225 g	TCLP Metals in Soil CRM208-225 225 g
As (Arsenic)	1.44	0.82	89.5	13.9	9.51	3.93
Ba (Barium)	5.85	(0.04)	0.44	0.38	0.40	32.8
Cd (Cadmium)	19.6	14.4	144	8.3	7.45	46.7
Cr (Chromium)	11.1	4.46	12.7	0.13	1.36	0.87
Pb (Lead)	48.5	10.7	155	2.16	2.76	2.14
Hg (Mercury)	5.58	(< 0.0025)	ND	0.65	0.02	0.62
Se (Selenium)	1.38	Trace	ND	20.5	20.8	ND
Ag (Silver)	5.01	(< 0.1)	ND	1.04	0.99	ND

NOTES:

1. These values are as extracted into Fluid #1.
2. All values expressed in mg/L, parts per million (ppm) unless otherwise noted.
3. Values in parenthesis are not certified and are given for information only.
4. ND is not detected.

Solid Matrix Standards continued on next page

These products do not require Hazardous Shipping Fee at this time.



Solid Waste Analysis

Solid Matrix Standards

Metals in Soil

Metals Conc. (in mg/Kg) Metal	Sewage Sludge Amended Soil CRM005-050 50g	Soil/ Sediment #4 CRM008-050 50g	Dry Soil #2 Certified pH 2.96 CRM020-050 ** 50g	Dry Soil #3 CRM021-100 100g	Dry soil #5 plus Cyanide CRM022-030 30g	Metals in Soil CRM028-050 50g
Al (Aluminum)	15,333	23,906	2,755	2,725	10,060	7,562
Sb (Antimony)	----	(3)	8.38	4,955	(<0.2)	----
As (Arsenic)	7	14	400	25	5	3.83
Ba (Barium)	853	54	24.8	586	109	73.2
Be (Beryllium)	1	1	----	----	0.5	0.38
B (Boron)	----	(27)	----	----	(16)	ND
Cd (Cadmium)	14	(1)	15.4	1	3	0.50
Ca (Calcium)	119,477	2,935	25,584	5,426	27,242	5,883
Cr (Chromium)	41	48	13.6	11	19	19.0
Co (Cobalt)	6	11	4.51	(3)	6	4.30
Cu (Copper)	465	36	729	4,792	12	8.51
Fe (Iron)	12,650	33,042	191,706	6,481	13,555	10,000
Pb (Lead)	89	95	5,111	(144,742)	415	10.4
Mg (Magnesium)	6,706	6,742	2,687	(2,367)	9,524	2,995
Mn (Manganese)	172	261	945	174	318	209
Hg (Mercury)	3	1	1.12	5	(0.02)	----
Mo (Molybdenum)	14	(2)	----	----	(<1)	----
Ni (Nickel)	26	26	16.9	13	16	13.4
P (Phosphorus)	(10,071)	----	----	----	----	----
K (Potassium)	6,229	3,948	(857)	1,006	3,170	2,045
Se (Selenium)	20	(1)	6.57	----	(0.3)	ND
Si (Silicon)	----	(471)	----	----	(80)	----
Ag (Silver)	36	(1)	38.5	7	(<0.5)	----
Na (Sodium)	2,488	8,706	(79.2)	380	268	3.31
Sr (Strontium)	----	42	(24.7)	----	(54)	ND
Tl (Thallium)	(2)	(<1)	5.91	(<1)	(<0.2)	----
Sn (Tin)	----	----	----	(304)	----	----
Ti (Titanium)	----	----	----	----	----	----
V (Vanadium)	109	44	6.47	(8.7)	23	19.2
Zn (Zinc)	625	134	3,011	546	46	75.0
pH	----	----	2.96	----	----	----
CN	----	----	----	----	26.6	----

Continued (in mg/Kg) Metal	Sediment, + CN CRM015-050 50g	Sediment CRM016-050 50g	Soil CRM023-050 50g	Soil CRM025-050 50g	Soil CRM026-050 50g	Soil CRM027-050 50g	Soil CRM024-050 50g
Al (Aluminum)	9,200	8,920	8,472	7,637	17,730	9,149	8,681
Sb (Antimony)	(ND)	(ND)	----	(<3.2)	(<3.2)	----	(1.17)
As (Arsenic)	6.6	6.48	380	339	5.64	12.5	3.42
Ba (Barium)	83.0	79.3	75.5	1,839	214	167	79.6
Be (Beryllium)	0.47	0.49	0.4	0.33	18.0	----	0.43
B (Boron)	(8.6)	(13.0)	(11.2)	(17.2)	(25.4)	2.74	7.22
Cd (Cadmium)	(ND)	0.47	0.9	369	11.7	11.9	2.15
Ca (Calcium)	23,463	22,646	5,425	28,320	6,221	5,963	5,534
Cr (Chromium)	14.3	14.5	31.1	441	27.2	27.0	25.4
Co (Cobalt)	6.04	5.96	8.9	4.07	6.77	4.77	----
Cu (Copper)	16.1	15.5	4.7	7.76	18.8	9.79	8.70
Fe (Iron)	17,070	16,831	10,678	9,439	21,906	11,299	10,196
Pb (Lead)	15.04	14.1	213	1,447	25.6	51.7	15.7
Mg (Magnesium)	13,611	13,246	3,064	4,376	2,837	2,786	2,945
Mn (Manganese)	183.4	180.0	206	173	633	258	199
Hg (Mercury)	0.10	0.11	77.8	99.8	2.42	3.85	0.71
Mo (Molybdenum)	1.16	(0.97)	----	----	----	----	0.58
Ni (Nickel)	17.5	16.7	11.0	12.2	14.4	10.7	15.0
P (Phosphorus)	----	----	----	----	----	----	----
K (Potassium)	2,074	1,958	2,231	1,992	3,600	2,115	2,102
Se (Selenium)	(1.0)	(1.0)	116	518	(1.86)	13.8	(0.54)
Si (Silicon)	(491)	(347)	(352)	(171)	(166)	387	(404)
Ag (Silver)	(ND)	(0.7)	132	(0.57)	5.90	----	13.3
Na (Sodium)	400	292.0	295	313	199	241	287
Sr (Strontium)	(62)	(61)	(32)	(408)	38.4	42.7	35.4
Tl (Thallium)	(ND)	(4.6)	111	(<4.8)	(<4.8)	----	(13.6)
Sn (Tin)	----	----	----	----	----	----	----
Ti (Titanium)	----	----	----	----	----	----	----
V (Vanadium)	22.1	22.5	21.7	19.3	32.0	21.8	20.8
Zn (Zinc)	69.9	69.7	93.8	51.8	140	51.5	37.3
pH	----	----	----	----	----	----	----
CN	6.04	----	----	----	----	----	----

Solid Waste Analysis

Solid Matrix Standards



Metals in Ashes

Metals Conc. (in mg/Kg)	Ash #1 CRM001-100	Ash #2 CRM012-100	Ash #3 CRM019-050	Ash #4 CRM205-225
Metal	100 g	100 g	100 g	100 g
Al (Aluminum)	----	2,160	(2, 759)	----
Sb (Antimony)	----	----	(223)	----
As (Arsenic)	----	----	78	90
Ba (Barium)	428	19	342	0.4
Be (Beryllium)	----	----	(2)	----
B (Boron)	----	----	(336)	----
Cd (Cadmium)	----	362	432	147
Ca (Calcium)	----	2,111	(51,949)	----
Cr (Chromium)	30	161,520	55	13
Co (Cobalt)	----	(22)	(26)	----
Cu (Copper)	40	3,015	279	----
Fe (Iron)	(16,300)	28,664	(12,693)	----
Pb (Lead)	----	120	4,414	155
Mg (Magnesium)	----	1,506	6,307	----
Mn (Manganese)	(300)	202	(480)	----
Hg (Mercury)	----	----	(2)	ND
Mo (Molybdenum)	----	----	(26)	----
Ni (Nickel)	20	13,279	22	----
P (Phosphorus)	----	----	----	----
K (Potassium)	----	73,324	(49,344)	----
Se (Selenium)	----	----	2	ND
Ag (Silver)	----	55	6	ND
Na (Sodium)	----	29,200	(50,522)	----
Sr (Strontium)	(1,016)	(10)	(173)	----
Tl (Thallium)	----	----	(42)	----
Sn (Tin)	----	(2,055)	(410)	----
Ti (Titanium)	(465)	(20)	(2,870)	----
V (Vanadium)	----	(52)	29	----
Zn (Zinc)	----	635	22,217	----

NOTES:

1. All values expressed in mg/Kg, parts per million (ppm) unless otherwise noted.
2. Values in parenthesis are not certified and are given for information only.
3. ND is not detected.

** Values certified by analysis from 260 independent laboratories

Lead Reference Materials

- Natural matrix, not spiked or fortified
- Samples tested & suitable for lead abatement program

Paint Sludge

CRM006-050	50 g
Certified lead value	753 mg/kg

Paint Waste

CRM013-050	50 g
Certified lead value	643 mg/kg

Dust

CRM014-050	50 g
Certified lead value	1,914 mg/kg

Metals in Particulates & Water Treatment Media

Metals Conc. (in mg/Kg)	Activated Charcoal Filter	Diatomaceous Earth Filter	Paint Chips	Baghouse Dust
Metal	CRM002-100 100 g	CRM004-100 100 g	CRM013-050 50 g	CRM014-050 50 g
Al (Aluminum)	(1,800)	(29,000)	(1,200)	(6,000)
Sb (Antimony)	(2)	(5)	(20)	(20)
As (Arsenic)	(30)	----	(1)	(2)
Ba (Barium)	(80)	1,595	(1,200)	(1,930)
Be (Beryllium)	----	----	----	----
B (Boron)	(80)	(1,160)	12	(50)
Cd (Cadmium)	(1)	2	38	510
Ca (Calcium)	(980)	(28,000)	(1,500)	(3,900)
Cr (Chromium)	36,339	21	618	2,228
Co (Cobalt)	(10)	(140)	(10)	(10)
Cu (Copper)	96,935	(20)	(30)	(110)
Fe (Iron)	(1,150)	----	(1,400)	(5,860)
Pb (Lead)	(5)	11,871	643	1,914
Mg (Magnesium)	(190)	(17,000)	(430)	(1,100)
Mn (Manganese)	(8)	(90)	(120)	(110)
Hg (Mercury)	(5)	(3)	----	(2)
Mo (Molybdenum)	----	(4)	(1)	(30)
Ni (Nickel)	(30)	(140)	(10)	(10)
P (Phosphorus)	----	----	----	----
K (Potassium)	(490)	----	(170)	(340)
Se (Selenium)	(4)	(2,000)	----	(1)
Ag (Silver)	18	(1)	----	(10)
Na (Sodium)	(480)	(4,200)	(310)	(780)
Sr (Strontium)	(110)	(80)	(950)	(1,900)
Tl (Thallium)	(20)	(30)	(4)	(10)
Sn (Tin)	(120)	(580)	(80)	(140)
Ti (Titanium)	(210)	(100)	(70)	(130)
V (Vanadium)	(40)	(28)	(1)	(2)
Zn (Zinc)	----	(8,500)	(2,370)	(3,150)

NOTES:

1. All values expressed in mg/Kg, parts per million (ppm) unless otherwise noted
2. Values in parenthesis are not certified and are given for information only.
3. ND is not detected.

These products do not require Hazardous Shipping Fee at this time.

Periodic Table

1		IA																																	
1.00794		1																																	
H																																			
1s																																			
bp: -259.3°C																																			
d: 0.088 g/l																																			
Hydrogen																																			
2		IIA																																	
6.941		3		9.012182		4																													
Li				Be																															
[He] 2s				[He] 2s²																															
mp: 180.5°C				mp: 1287°C																															
d: 0.53 g/cc				d: 1.848 g/cc																															
Lithium				Beryllium																															
22.989768		11		24.3050		12																													
Na				Mg																															
[Ne] 3s				[Ne] 3s²																															
mp: 97.72°C				mp: 650°C																															
d: 0.968 g/cc				d: 1.738 g/cc																															
Sodium				Magnesium																															
								5		VB		6		VIB		7		VIIB		8		VIII		9		VIII									
39.0983		19		40.078		20		44.955910		21		47.88		22		50.9415		23		51.9961		24		54.93805		25		55.847		26		58.93320		27	
K				Ca				Sc				Ti				V				Cr				Mn				Fe				Co			
[Ar] 4s				[Ar] 4s²				[Ar] 3d 4s²				[Ar] 3d³ 4s²				[Ar] 3d³ 4s²				[Ar] 3d⁵ 4s				[Ar] 3d⁵ 4s²				[Ar] 3d⁶ 4s²				[Ar] 3d⁷ 4s²			
mp: 63.3°C				mp: 842°C				mp: 1541°C				mp: 1668°C				mp: 1910°C				mp: 1907°C				mp: 1246°C				mp: 1538°C				mp: 1495°C			
d: 0.856 g/cc				d: 1.54 g/cc				d: 2.989 g/cc				d: 4.506 g/cc				d: 6.11 g/cc				d: 7.19 g/cc				d: 7.3 g/cc				d: 7.87 g/cc				d: 8.92 g/cc			
Potassium				Calcium				Scandium				Titanium				Vanadium				Chromium				Manganese				Iron				Cobalt			
85.4678		37		87.62		38		88.90585		39		91.224		40		92.9064		41		95.94		42		98		43		101.07		44		102.9055		45	
Rb				Sr				Y				Zr				Nb				Mo				Tc				Ru				Rh			
[Kr] 5s				[Kr] 5s²				[Kr] 4d 5s²				[Kr] 4d² 5s²				[Kr] 4d⁴ 5s				[Kr] 4d⁵ 5s				[Kr] 4d⁵ 5s²				[Kr] 4d⁷ 5s				[Kr] 4d⁸ 5s			
mp: 39°C				mp: 777°C				mp: 1522°C				mp: 1855°C				mp: 2477°C				mp: 2623°C				mp: 2157°C				mp: 2334°C				mp: 1964°C			
d: 1.532 g/cc				d: 2.64 g/cc				d: 4.47 g/cc				d: 6.52 g/cc				d: 8.57 g/cc				d: 10.22 g/cc				d: 11.0 g/cc				d: 12.1 g/cc				d: 12.41 g/cc			
Rubidium				Strontium				Yttrium				Zirconium				Niobium				Molybdenum				Technetium				Ruthenium				Rhodium			
132.9054		55		137.327		56		57-71				178.49		72		180.9479		73		183.84		74		186.207		75		190.23		76		192.22		77	
Cs				Ba				La-Lu				Hf				Ta				W				Re				Os				Ir			
[Xe] 6s				[Xe] 6s²								[Xe] 4f¹⁴ 5d² 6s²				[Xe] 4f¹⁴ 5d³ 6s²				[Xe] 4f¹⁴ 5d⁴ 6s²				[Xe] 4f¹⁴ 5d⁵ 6s²				[Xe] 4f¹⁴ 5d⁶ 6s²				[Xe] 4f¹⁴ 5d⁷ 6s²			
mp: 28.4°C				mp: 727°C								mp: 2227°C				mp: 2996°C				mp: 3410°C				mp: 3180°C				mp: 3045°C				mp: 2410°C			
d: 1.93 g/cc				d: 3.62 g/cc								d: 13.31 g/cc				d: 16.4 g/cc				d: 19.3 g/cc				d: 20.8 g/cc				d: 22.61 g/cc				d: 22.5 g/cc			
Cesium				Barium								Hafnium				Tantalum				Tungsten				Rhenium				Osmium				Iridium			
223.0197		87		226.0254		88		89-103				261.1087		104		262.1138		105		263.1182		106		262.1229		107		265		108		266		109	
Fr				Ra				Ac-Lr				Rf				Db				Sg				Bh				Hs				Mt			
[Rn] 7s				[Rn] 7s²								[Rn] 5f¹⁴ 6d² 7s²				[Rn] 5f¹⁴ 6d³ 7s²				[Rn] 5f¹⁴ 6d⁴ 7s²				[Rn] 5f¹⁴ 6d⁵ 7s²				[Rn] 5f¹⁴ 6d⁶ 7s²				[Rn] 5f¹⁴ 6d⁷ 7s²			
mp: 27°C				mp: 700°C								mp: none				mp: none				mp: none				mp: none				mp/bp: none				mp/bp: none			
d: 2.29 g/cc				d: 2.29 g/cc								d: none				d: none				d: none				d: none				d: none				d: none			
Francium				Radium								Rutherfordium				Dubnium				Seaborgium				Bohrium				Hassium				Meitnerium			

Oxidation States
listed on following page

57 138.9055 La [Xe] 5d 6s² mp: 920°C d: 6.17 g/cc Lanthanum	58 140.115 Ce [Xe] 4f¹ 6s² mp: 798°C d: 6.77 g/cc Cerium	59 140.90765 Pr [Xe] 4f³ 6s² mp: 935°C d: 6.77 g/cc Praseodymium	60 144.24 Nd [Xe] 4f⁴ 6s² mp: 1021°C d: 7.00 g/cc Neodymium	61 146.9151 Pm [Xe] 4f⁵ 6s² mp: 1080°C d: 7.22 g/cc Promethium	62 150.36 Sm [Xe] 4f⁶ 6s² mp: 1072°C d: 7.54 g/cc Samarium	63 151.965 Eu [Xe] 4f⁷ 6s² mp: 822°C d: 5.25 g/cc Europium
89 227.0278 Ac [Rn] 6d 7s² mp: 1050°C d: 10.07 g/cc Actinium	90 232.0381 Th [Rn] 6d² 7s² mp: 1750°C d: 11.72 g/cc Thorium	91 231.0359 Pa [Rn] 5f² 6d 7s² mp: 1560°C d: 15.37 g/cc Protactinium	92 238.0289 U [Rn] 5f³ 6d 7s² mp: 1132.3°C d: 19.07 g/cc Uranium	93 237.0482 Np [Rn] 5f⁴ 6d 7s² mp: 637°C d: 20.45 g/cc Neptunium	94 244.0642 Pu [Rn] 5f⁶ 7s² mp: 641°C d: 19.86 g/cc Plutonium	95 243.0614 Am [Rn] 5f⁷ 7s² mp: 1173°C d: 13.67 g/cc Americium

										18VIIIA	
										4.002602	2
										He	
										1s ² bp: -268.9°C d: 0.179 g/l	
										Helium	
			13IIIA	14IVA	15VA	16VIA	17VIIA				
			10.8115	12.0116	14.006747	15.99948	18.99840329	20.179710			
			B	C	N	O	F	Ne			
			[He] 2s ² 2p mp: 2075°C d: 2.34 g/cc	[He] 2s ² 2p ² mp: 3650°C d: 2.26 g/cc	[He] 2s ² 2p ³ bp: -195.8°C d: 1.25 g/l	[He] 2s ² 2p ⁴ bp: -183.0°C d: 1.404 g/l	[He] 2s ² 2p ⁵ bp: -188.1°C d: 1.696 g/l	[He] 2s ² 2p ⁶ bp: -246.1°C d: 0.8999 g/l			
			Boron	Carbon	Nitrogen	Oxygen	Fluorine	Neon			
			26.98153913	28.085514	30.97376215	32.06616	35.452717	39.94818			
			Al	Si	P	S	Cl	Ar			
			[Ne] 3s ² 3p mp: 660.4°C d: 2.70 g/cc	[Ne] 3s ² 3p ² mp: 1414°C d: 2.33 g/cc	[Ne] 3s ² 3p ³ mp: 44.2°C d: 1.82 g/cc	[Ne] 3s ² 3p ⁴ mp: 115.21°C d: 2.07 g/cc	[Ne] 3s ² 3p ⁵ bp: -34.0°C d: 2.95 g/l	[Ne] 3s ² 3p ⁶ bp: -185.9°C d: 1.784 g/l			
			Aluminum	Silicon	Phosphorus	Sulfur	Chlorine	Argon			
10VIII	11IB	12IIB	58.693428	63.54629	65.3830	69.72331	72.6132	74.9215933	78.9634	79.90435	83.8036
Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr			
[Ar] 3d ⁸ 4s ² mp: 1455°C d: 8.908 g/cc	[Ar] 3d ¹⁰ 4s mp: 1083.0°C d: 8.84 g/cc	[Ar] 3d ¹⁰ 4s ² mp: 419.5°C d: 7.14 g/cc	[Ar] 3d ¹⁰ 4s ² 4p mp: 29.8°C d: 5.91 g/cc	[Ar] 3d ¹⁰ 4s ² 4p ² mp: 937.2°C d: 5.32 g/cc	[Ar] 3d ¹⁰ 4s ² 4p ³ 818°C subl. d: 5.778 g/cc	[Ar] 3d ¹⁰ 4s ² 4p ⁴ mp: 217°C d: 4.28 g/cc	[Ar] 3d ¹⁰ 4s ² 4p ⁵ bp: 59.47°C d: 3.10 g/cc	[Ar] 3d ¹⁰ 4s ² 4p ⁶ bp: -157.36°C d: 3.677 g/cL			
Nickel	Copper	Zinc	Gallium	Germanium	Arsenic	Selenium	Bromine	Krypton			
106.4246	107.86847	112.41148	114.81849	118.71050	121.7551	127.6052	126.904553	131.2954			
Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe			
[Kr] 4d ¹⁰ mp: 1554.9°C d: 12.02 g/cc	[Kr] 4d ¹⁰ 5s mp: 961.8°C d: 10.5 g/cc	[Kr] 4d ¹⁰ 5s ² mp: 321.1°C d: 8.69 g/cc	[Kr] 4d ¹⁰ 5s ² 5p mp: 156.6°C d: 7.31 g/cc	[Kr] 4d ¹⁰ 5s ² 5p ² mp: 232.0°C d: 7.265 g/cc	[Kr] 4d ¹⁰ 5s ² 5p ³ mp: 630.7°C d: 6.68 g/cc	[Kr] 4d ¹⁰ 5s ² 5p ⁴ mp: 449.5°C d: 6.24 g/cc	[Kr] 4d ¹⁰ 5s ² 5p ⁵ mp: 113.7°C d: 4.933 g/cc	[Kr] 4d ¹⁰ 5s ² 5p ⁶ mp: -111.0°C d: 5.761 g/l			
Palladium	Silver	Cadmium	Indium	Tin	Antimony	Tellurium	Iodine	Xenon			
195.0878	196.9665479	200.5980	204.383381	207.282	208.9803783	208.982484	209.987185	222.017686			
Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn			
[Xe] 4f ¹⁴ 5d ⁹ 6s mp: 1768.4°C d: 21.45 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s mp: 1064.2°C d: 19.32 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² bp: 356.73°C d: 13.534 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p mp: 303.5°C d: 11.85 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ² mp: 327.5°C d: 11.34 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ³ mp: 271.4°C d: 9.79 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴ mp: 254°C d: 9.20 g/cc	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵ mp: 302°C d: none	[Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶ mp: -61.8°C d: 9.72 g/cc			
Platinum	Gold	Mercury	Thallium	Lead	Bismuth	Polonium	Astatine	Radon			
269110	272111	277112									
Uun	Uuu	Uub									
Ununnilium	Unununium	Ununbium									
157.2564	158.9253465	162.5066	164.9303267	167.2668	168.934269	173.0470	174.96771				
Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu				
[Xe] 4f ⁷ 5d6s ² mp: 1311°C d: 7.89 g/cc	[Xe] 4f ⁹ 6s ² mp: 1356°C d: 8.27 g/cc	[Xe] 4f ¹⁰ 6s ² mp: 1409°C d: 8.56 g/cc	[Xe] 4f ¹¹ 6s ² mp: 1474°C d: 8.78 g/cc	[Xe] 4f ¹² 6s ² mp: 1529°C d: 9.05 g/cc	[Xe] 4f ¹³ 6s ² mp: 1545°C d: 9.32 g/cc	[Xe] 4f ¹⁴ 6s ² mp: 819°C d: 6.97 g/cc	[Xe] 4f ¹⁴ 5d6s ² mp: 1663°C d: 9.84 g/cc				
Gadolinium	Terbium	Dysprosium	Holmium	Erbium	Thulium	Ytterbium	Lutetium				
247.070396	247.070397	251.079698	252.082999	257.0951100	258.0986101	259.1009102	262.11103				
Cm	Bk	Cf	Es	Fm	Md	No	Lr				
[Rn] 5f ⁷ 6d7s ² mp: 1345°C d: 13.51 g/cc	[Rn] 5f ⁹ 7s ² mp: 986°C d: 14.78 g/cc	[Rn] 5f ¹⁰ 7s ² mp: 900°C d: 15.1 g/cc	[Rn] 5f ¹¹ 7s ² mp: 860°C d: 8.84 g/cc	[Rn] 5f ¹² 7s ² mp: none d: none	[Rn] 5f ¹³ 7s ² mp: none d: none	[Rn] 5f ¹⁴ 7s ² mp: none d: none	[Rn] 5f ¹⁴ 6d7s ² mp: none d: none				
Curium	Berkelium	Californium	Einsteinium	Fermium	Mendelevium	Nobelium	Lawrencium				

Table of Element Symbol, Oxidation States and Atomic Weights

Oxidation States (bold indicates most stable state, -- = unknown)
Atomic Mass based on the $^{12}\text{C}=12$

Element	Symbol	Oxidation States	Atomic Weight	Element	Symbol	Oxidation States	Atomic Weight
Actinium	Ac	3	227.0278	Mendelevium	Md	2,3	258.0986
Aluminum	Al	3	26.981539	Mercury	Hg	1,2	200.59
Americium	Am	3,4,5,6	243.0614	Molybdenum	Mo	2,3,4,5,6	95.94
Antimony	Sb	±3,5	121.757	Neodymium	Nd	3	144.24
Argon	Ar		39.948	Neon	Ne		20.1797
Arsenic	As	±3,5	74.92159	Neptunium	Np	3,4,5,6	237.0482
Astatine	At	±1,3,5,7	209.9871	Nickel	Ni	2,3	58.6934
Barium	Ba	2	137.327	Niobium	Nb	3,5	92.9064
Berkelium	Bk	3,4	247.0703	Nitrogen	N	2,±3,4,5	14.00674
Beryllium	Be	2	9.012182	Nobelium	No	2,3	259.1009
Bismuth	Bi	3,5	208.98037	Osmium	Os	2,3,4,6,8	190.23
Bohrium	Bh	--	262.1229	Oxygen	O	-2	15.9994
Boron	B	3	10.811	Palladium	Pd	2,4	106.42
Bromine	Br	±1,5	79.904	Phosphorus	P	±3,4,5	30.973762
Cadmium	Cd	2	112.411	Platinum	Pt	2,4	195.08
Calcium	Ca	2	40.078	Plutonium	Pu	3,4,5,6	244.0642
Californium	Cf	3	251.0796	Polonium	Po	2,4	208.9871
Carbon	C	2,±4	12.011	Potassium	K	1	39.0983
Cerium	Ce	3,4	140.115	Praseodymium	Pr	3,4	140.9151
Cesium	Cs	1	132.90543	Promethium	Pm	3	146.9151
Chlorine	Cl	±1,3,5,7	35.4527	Protactinium	Pa	4,5	231.0359
Chromium	Cr	2,3,6	51.9961	Radium	Ra	2	226.0254
Cobalt	Co	2,3	58.93320	Radon	Rn		222.0176
Copper	Cu	1,2	63.546	Rhenium	Re	-1,2,4,6,7	186.207
Curium	Cm	3	247.0703	Rhodium	Rh	2,3,4	102.9055
Dubnium	Db	--	262.1138	Rubidium	Rb	1	85.4678
Dysprosium	Dy	3	162.50	Ruthenium	Ru	2,3,4,6,8	101.07
Einsteinium	Es	3	252.0829	Rutherfordium	Rf	4	261.1087
Erbium	Er	3	167.26	Samarium	Sm	2,3	150.36
Europium	Eu	2,3	151.96	Scandium	Sc	3	44.95591
Fermium	Fm	3	257.0951	Seaborgium	Sg	--	263.1182
Fluorine	F	-1	18.9984032	Selenium	Se	-2,4,6	78.96
Francium	Fr	1	223.0197	Silicon	Si	4	28.0855
Gadolinium	Gd	3	157.25	Silver	Ag	1	107.8682
Gallium	Ga	3	69.723	Sodium	Na	1	22.989768
Germanium	Ge	4	72.61	Strontium	Sr	2	87.62
Gold	Au	1,3	196.96654	Sulfur	S	±2,4,6	32.066
Hafnium	Hf	4	178.49	Tantalum	Ta	5	180.9479
Hassium	Hs	--	265	Technetium	Tc	7	98
Helium	He		4.002602	Tellurium	Te	-2,4,6	127.6
Holmium	Ho	3	164.93032	Terbium	Tb	3,4	158.92534
Hydrogen	H	1	1.00794	Thallium	Tl	1,3	204.3833
Indium	In	3	114.818	Thorium	Th	4	232.0381
Iodine	I	±1,5,7	126.9045	Thulium	Tm	2,3	168.9342
Iridium	Ir	2,3,4,6	192.22	Tin	Sn	2,4	118.710
Iron	Fe	2,3	55.847	Titanium	Ti	3,4	47.88
Krypton	Kr		83.80	Tungsten	W	2,3,4,5,6	183.84
Lanthanum	La	3	138.9055	Uranium	U	3,4,5,6	238.0289
Lawrencium	Lr	3	262.11	Vanadium	V	2,3,4,5	50.9415
Lead	Pb	2,4	207.2	Xenon	Xe		131.29
Lithium	Li	1	6.941	Ytterbium	Yb	2,3	173.04
Lutetium	Lu	3	174.967	Yttrium	Y	3	88.90585
Magnesium	Mg	2	24.3050	Zinc	Zn	2	65.38
Manganese	Mn	2,3,4,6,7	54.93805	Zirconium	Zr	4	91.224
Meitnerium	Mt	--	266				

General Constants

Universal Gas Constant	$R = 0.0821 (\text{Atm})(\text{L})/(\text{K})(\text{mole})$
Acceleration Due to Gravity	$g = 32.17 \text{ ft/sec}^2, 9.8 \text{ m/sec}^2$
Avogadro's Constant	$N = 6.023 \times 10^{23} \text{ molecules/mole}$
Speed of Light	$c = 186,282 \text{ miles/sec}, 3 \times 10^{10} \text{ cm/sec}$
Heat of Fusion (water 1 atm, 0°C)	$\Delta H_{\text{fus}} = 79.7 \text{ cal/g}$
Heat of Vaporization (water 1 atm, 100°C)	$\Delta H_{\text{vap}} = 540 \text{ cal/g}$
Volume of Perfect Gas	22.4L/mol at 0°C, 760 torr
Faraday's Constant	$F = 96485.31 \text{ C/mol}$
Planck's Constant	$h = 6.626 \times 10^{-27} \text{ erg/sec}$
Bragg's Law	$2d \sin \theta = n\lambda$
Absolute Zero	-273.15 °C
Temp. of Liquid Nitrogen	-195.8 °C

Technical Reference

Solvent Miscibility Table, Density and Boiling Point

Acetic acid	(1.049 g/mL)	(117-118°C)
Acetone	(0.791 g/mL)	(56°C)
Acetonitrile (AcCN)	(0.786 g/mL)	(81-82°C)
Benzene	(0.874 g/mL)	(80°C)
2-Butanol	(0.808 g/mL)	(98°C)
Butyl alcohol	(0.81 g/mL)	(116-118°C)
tert-Butylmethyl ether (MtBE)	(0.74 g/mL)	(55-56°C)
Carbon tetrachloride	(1.594 g/mL)	(76-77°C)
Chloroform	(1.492 g/mL)	(60.5-61.5°C)
Cyclohexane	(0.779 g/mL)	(80.7°C)
Cyclopentane	(0.751 g/mL)	(50°C)
Dichloroethane	(1.256 g/mL)	(83°C)
N,N-Dimethylformamide (DMF)	(0.944 g/mL)	(153°C)
1,4-Dioxane	(1.034 g/mL)	(100-102°C)
Dipropyl ether	(0.736 g/mL)	(88-90°C)
Ethyl acetate (EtOAc)	(0.902 g/mL)	(76.5-77.5°C)
Ethyl alcohol (EtOH)	(0.789 g/mL)	(78°C)
Ethyl ether	(0.706 g/mL)	(34.6°C)
n-Heptane	(0.684 g/mL)	(98°C)
n-Hexane	(0.659 g/mL)	(69°C)
Isooctane	(0.692 g/mL)	(98-99°C)
Isopropyl alcohol	(0.785 g/mL)	(82°C)
Methanol (MeOH)	(0.791 g/mL)	(64.7°C)
Methylene chloride (CH ₂ Cl ₂)	(1.325 g/mL)	(39.8-40°C)
Methyl sulfoxide (DMSO)	(1.10 g/mL)	(189°C)
n-Pentane	(0.626 g/mL)	(35-36°C)
1,1,2,2-Tetrachloroethane	(1.586 g/mL)	(147°C)
Tetrahydrofuran (THF)	(0.889 g/mL)	(65-67°C)
Toluene	(0.865 g/mL)	(110-111°C)
Trichloroethane	(1.336 g/mL)	(74-76°C)
Water	(1 g/mL)	(100°C)
Xylene	(0.868 g/mL)	(138-139°C)

☐ Miscible
☒ Immiscible

Read down column and across for solvent miscibility

Density@25°C
Boiling Point

Unit Conversions

Temperature

°Fahrenheit	°Celsius	(°F - 32) x 5/9
°Celsius	°Fahrenheit	(°C x 9/5) + 32
°Celsius	°Kelvin	°C + 273

Mass

1 ounce	=	28.4 grams
0.03527 grams	=	1 ounces

Liquid Volume

	Multiply by
Ounces (US)	Milliliters 29.57
Pints (US)	Liters 0.47
Quarts (US)	Liters 0.95
Gallons (US)	Liters 3.8
Milliliters	Ounces (US) 0.034
Liters	Pints (US) 2.1
Liters	Quarts (US) 1.06
Liters	Gallons (US) 0.26
Cubic Feet	Cubic meters 0.03
Cubic Yards	Cubic meters 0.76

1 ppm = 1 µg/mL (wt./vol.) and
 1 ppm = 1 µg/g (wt./wt.)
 1% = 10,000 ppm (parts per million)
 1 ppm = 1,000 ppb (parts per billion)
 1 ppb = 1,000 ppt (parts per trillion)

1 g = 1,000 mg (milligram)
 1 mg = 1,000 µg (microgram)
 1 µg = 1,000 ng (nanogram)

1 L = 1,000 mL (milliLiter)
 1 mL = 1,000 µL (microLiter)
 1 µL = 1,000 nL (nanoLiter)

Abbreviations

AA	Atomic Absorption
ACS	American Chemical Society
ANSI	American National Standards Institute
AOAC	Association of Official Analytical Chemists
APHA	American Public Health Association
ASTM	American Society for Testing Materials
BSI	British Standards Institute
CAS	Chemical Abstracts Service
CI	Color Index
EPA	U.S. Environmental Protection Agency
GLC	Gas Liquid Chromatography
GR	Guaranteed Reagent
ICP	Inductively Coupled Plasma
IR	Infrared
KF	Karl Fischer
meq	Milliequivalent
NF	National Formulary
NIST	National Institute of Standards and Technology
OSHA	Occupational Safety and Health Administration
RFA	Renewable Fuel Association
SPE	Solid Phase Extraction
TLC	Thin Layer Chromatography
USDA	U.S. Department of Agriculture
USP	U.S. Pharmacopoeia

Instrumentation for Analysis

GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectroscopy
GC/FID	Gas Chromatography/Flame Ionization Detector
GC/PID	Gas Chromatography/Photoionization Detector
GC/ECD	Gas Chromatography/Electron Capture Detector
GC/ELCD	Gas Chromatography/Electrolytic Conductivity Detector
GC/NPD	Gas Chromatography/Nitrogen phosphorus Detector
HPLC	High Performance Liquid Chromatography
NPD/TEA	Nitrogen-Phosphorus Detector/Thermal Energy Analyzer with the reductive Hall detector
TCD/FID	Thermal Conductivity Detector/ Flame Ionization Detector
NPD/AFD/TSD	Nitrogen-Phosphorus Detector/Alkali-Flame Detector/Thermionic Specific Detector
NPA/ELCD/FPD	Nitrogen-Phosphorus Detector/ Electrolytic Conductivity Detector/Flame Photometric Detector
HRGC/LRMS	High Resolution Gas Chromatography/Low Resolution Mass Spectrometry
FTIR	Fourier Transform Infrared

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43121-43-3	83,138	56219-10-4	98	66640-61-7	47	74472-34-7	31	97886-45-8	74	149949-89-3	47
46438-88-4	53	56399-71-4	109	66840-71-9	74	74472-35-8	32	98168-52-6	109	149949-90-6	47
50471-44-8	83,139	56558-16-8	31	66841-25-6	83	74472-36-9	32	98730-04-2	70	149961-52-4	74
50512-35-1	77	56558-17-9	32	67129-08-2	78,135	74472-37-0	32	98886-44-3	76	150304-08-8	46
50563-36-5	74	56558-18-0	32	67323-56-2	50	74472-38-1	32	98967-40-9	76	152477-96-8	91,133
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50594-66-6	69,129	57117-31-4	52	67564-91-4	75	74472-41-6	32	101007-06-1	69	155999-95-4	53
50594-67-7	69,129	57117-41-6	52,213	67651-34-7	46	74472-42-7	32	101200-48-0	83	158076-63-2	46
51026-28-9	80	57153-17-0	74,133	67651-35-8	46	74472-44-9	32	101205-02-1	72	161050-58-4	78
51207-31-9	52,213	57153-18-1	78,135	67651-36-9	46	74472-45-0	32	101463-69-8	76	161326-34-7	75
51218-45-2	78,136	57369-32-1	81	67651-37-0	46	74472-46-1	32	102783-82-4	109	168316-95-8	81
51218-49-6	80	57383-80-9	61	67746-30-9	115,117	74472-47-2	33	102851-06-9	76,134	171977-44-9	53
51229-78-8	117	57422-77-2	61	67747-09-5	80	74472-48-3	33	103055-07-8	77	173159-57-4	76
51230-49-0	52	57465-28-8	32	67888-96-4	61	74472-49-4	33	103173-66-6	54	175013-18-0	81
51235-04-2	76,135	57646-30-7	76	68186-30-1	106	74472-50-7	33	104040-78-0	76	182346-21-0	54
51338-27-3	74,133	57653-85-7	50	68194-04-7	31	74472-51-8	33	104040-79-1	72	182677-30-1	55
51452-87-0	53	57837-19-1	78,135	68194-05-8	31	74472-52-9	33	104086-16-0	47	189084-57-9	54
51630-58-1	75,134	57966-95-7	72	68194-06-9	31	74472-53-0	33	104086-18-2	47	189084-58-0	55
51707-55-2	82	58200-66-1	50	68194-07-0	31	74474-43-8	32	104086-19-3	47	189084-59-1	53
51908-16-8	32	58200-70-7	50	68194-08-1	32	74487-85-7	33	105024-66-6	81	189084-60-4	53
51930-04-2	53	58718-66-4	48,49,105	68194-09-2	32	74845-58-2	63	107534-96-3	82,138	189084-61-5	54
51939-55-1	60	58718-67-5	48,49,105	68194-10-5	32	74992-96-4	52	108698-01-7	108	189084-62-6	54
52315-07-8	72,131	58769-20-3	77	68194-11-6	32	75321-20-9	65	108698-02-8	108	189084-63-7	54
52645-53-1	80,137	58802-08-7	50	68194-12-7	32	75685-75-5	109	108736-08-9	47	189084-64-8	54,105
52663-58-8	31	58802-09-8	50	68194-13-8	32	75736-33-3	74	109041-38-5	65	189084-65-9	54
52663-59-9	31	58810-48-3	79	68194-14-9	32	76578-14-8	81,138	110235-47-7	78	189084-66-0	54
52663-60-2	31	59080-32-9	61	68194-15-0	32	76674-21-0	76	110488-70-5	74	189084-67-1	55
52663-61-3	31	59080-33-0	61	68194-16-1	33	76738-62-0	71	111812-58-9	75	189084-68-2	55
52663-62-4	31	59080-34-1	61	68194-17-2	33	76842-07-4	32	111988-49-9	82	207122-15-4	55,105
52663-63-5	32	59080-35-2	61	68359-37-5	72	77102-82-0	61	111991-09-4	79	207122-16-5	55,105
52663-64-6	33	59080-35-3	61	68411-46-1	104	77182-82-2	76	112281-77-3	82	211519-85-6	105
52663-65-7	33	59080-37-4	61	68412-48-6	104	77458-01-6	81	112410-23-8	82	243982-82-3	54
52663-66-8	32	59080-39-6	61	68476-30-2	322	77607-09-1	61	113096-99-4	72	243982-83-4	55
52663-67-9	33	59080-40-9	61	68476-31-3	322	77732-09-3	79	113260-74-5	52,86	327185-09-1	54
52663-68-0	33	59229-75-3	100,132	68476-43-6	322	78491-02-8	114	113728-10-2	109	337513-53-8	53
52663-69-1	33	59261-08-4	61	68515-40-2	106	78587-05-0	77	114369-43-6	75	337513-54-9	53
52663-70-4	33	59291-64-4	32	68515-47-9	106	79127-80-3	75,134	115044-19-4	76	337513-55-0	54
52663-71-5	33	59291-65-5	32	68515-48-0	106,114,118	79241-46-6	76,134	115245-07-3	61	337513-56-1	53
52663-72-6	32	59447-55-1	60	68515-49-1	106	79270-78-3	74,133	116255-48-2	71	337513-67-4	53
52663-73-7	33	59536-65-1	60	68553-00-4	322	79277-27-3	82	116806-76-9	47	337513-68-5	54
52663-74-8	33	59669-26-0	82	68610-51-5	103,104	79538-32-2	82,138	116807-23-9	47	337513-75-4	53
52663-75-9	33	59756-60-4	76,134	68631-49-2	55	79622-59-6	76	116807-52-4	47	358730-88-8	98,107
52663-76-0	33	60044-24-8	61	68694-11-1	83	79983-71-4	76	116807-53-5	47	358730-89-9	98,107
52663-77-1	33	60444-25-9	61	69119-90-0	108	80380-39-8	109	116889-69-1	50	358731-25-6	98,107
52663-78-2	33	60145-20-2	31	69119-99-9	108	80844-07-1	75	116889-70-4	50	358731-29-0	98,107
52663-79-3	33	60145-21-3	31	69278-58-6	46	81334-34-1	77	117428-22-5	80	373594-78-6	54
52704-70-8	32	60145-22-4	32	69327-76-0	71	81335-37-7	77	118134-30-8	81	407606-55-7	53
52712-04-6	32	60145-23-5	33	69377-81-7	76	81335-77-5	77,84	118712-89-3	83	446254-14-4	53
52712-05-7	33	60168-88-9	71,130	69782-90-7	32	81405-85-8	77	119446-68-3	74	446254-15-5	53
52744-13-5	32	60207-90-1	82,138	69782-91-8	33	81777-89-1	72	120067-83-6	76,134	446254-16-6	53
52756-22-6	70	62027-93-4	75	69797-51-9	47	82097-50-5	83	120068-36-2	76,134	446254-17-7	53
52756-25-9	76,134	60233-24-1	31	69797-52-0	47	82239-20-1	48,97	120068-37-3	76,134	446254-18-8	54
52888-80-9	81	60233-25-2	31	69806-34-4	76,134	82291-37-0	50	120738-89-8	79	446254-19-9	54
52918-63-5	73,132	60238-56-4	72	69806-40-2	76,134	82306-65-8	50	120923-37-7	69	446254-20-2	54
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53494-70-5	75,134	60640-54-2	47	70331-94-1	104	82657-04-3	70,130	122548-33-8	77	446254-25-7	54
53555-66-1	30	60640-55-3	47	70356-09-1	113,118	83055-99-6	70,129	122931-48-0	81	446254-31-5	54
53558-25-1	83,139	60825-26-5	139	70362-41-3	32	83121-18-0	82	123312-89-0	81	446254-32-6	54
53563-63-6	109	61012-47-3	108	70362-45-7	31	83164-33-4	74	123333-56-2	95,114	446254-33-7	54
53592-10-2	61	61213-25-0	76	70362-46-8	31	83463-62-1	87,130	123359-41-1	113	446254-34-8	54
53894-23-8	106	61592-45-8	70,129	70362-47-9	31	83547-96-0	88	125116-23-6	78	446254-37-1	54
53905-28-5	46	61798-70-7	32	70362-48-0	31	83657-24-3	74	126535-15-7	83	446254-38-2	54
53905-29-6	46	61951-51-7	119	70362-49-1	31	83694-71-7	53	126801-58-9	75	446254-39-3	54
53905-30-9	46	62610-77-9	78	70362-50-4	31	83844-21-7	63	126833-17-8	75	446254-40-6	54
53905-33-2	46	62796-65-0	31	70424-67-8	31	84087-01-4	81	129322-83-4	92,139	446254-41-7	54
53988-07-1	109	62924-70-3	76	70424-68-9	32	84332-86-5	72	131341-86-1	76	446254-42-8	54
53988-10-6	104	63041-76-9	63	70424-69-0	31	85380-74-1	94	131807-57-3	75	446254-43-9	54
54230-22-7	31	63041-77-0	63	70424-70-3	32	85509-19-9	76	131860-33-8	70	446254-45-1	54
54406-48-3	75	63041-90-7	65	70644-19-8	63	86209-51-0	80	131983-72-7	83	446254-48-4	54
54536-17-3	50	63104-32-5	63	70892-10-3	322	86479-06-3	76	135410-20-7	69	446254-50-8	54
54589-71-8	52	63104-33-6	62	71133-14-7	97,130	87130-20-9	74	137888-64-3	98	446254-51-9	54
54827-17-7	96	63284-71-9	83	71238-80-2	75	87674-68-8	74	138261-41-3	77,135	446254-53-1	54
54886-63-9	62	63449-39-8	60,105	71561-11-0	81,138	87820-88-0	83	140923-17-7	77	446254-54-2	54
54965-21-8	69	63496-31-1	105	71626-11-4	70	88283-41-4	81	141112-29-0	77	446254-55-3	54
55179-31-2	71,130	63496-31-2	48	71751-41-2	69	88671-89-0	79,136	141517-21-7	83	446254-57-5	54
55215-17-3	31	64529-56-2	75	71888-89-6	106	90028-67-4	117	141776-32-1	81	446254-59-7	54
55215-18-4	32	64628-44-0	83	71925-18-3	50	90288-68-5	116,117	142022-58-0	97	446254-61-1	54
55219-65-3	83	64700-56-7	83	71998-76-0	50	90717-03-6	81	142022-61-5	97	446254-64-4	54
55283-68-6	75,134	64742-47-8	322	72375-21-4	311	90982-32-4	72,130	143390-89-0	77	446254-65-5	54
55285-14-8	71,130	64742-54-7	322	7237							

Organic Analyte Index

This is a listing of Analytes used in single analyte solutions. It does not include organic analytes in mixtures or inorganic elements.
For the complete list, visit www.accustandard.com.

ANALYTE	PAGE	ANALYTE	PAGE	ANALYTE	PAGE	ANALYTE	PAGE	ANALYTE	PAGE
Abamectin	69	Antioxidant S	104	Benzophenone-3	113,118	Bueno	71,130	4-Chlorodibenzofuran	52
Abate	69	Antiozonant NIBUD	103	5,6-Benzoquinoline	62	Bupirimate	71	1-Chlorodibenzo-p-dioxin	50
Accelerator BBTS	103	Aramite	70,129,212	7,8-Benzoquinoline	62	Buprofezin	71	2-Chlorodibenzo-p-dioxin	50
Accelerator ETU-22 PM	103	Arctic Diesel	322	Benzoylprop ethyl	70	Busan	71	Chlorodibromoacetic acid	97,131,179
Accelerator EZ & EZ-SP	103	Aroclor 1016	44,105,154,162,170,188,193, 213,224,243,289,312	Benzyl alcohol	91,113,117,130,212	Butachlor	71,130	2-Chloro-2'-diethylacetanilide	72
Accelerator MBT, MBT/MG	103	Aroclor 1221	44,105,154,162,188,193, 213,224,243,289,312	Benzyl benzoate	113,117,130,222	1,3-Butadiene	87,130	1-Chloro-1,1-difluoroethane	115,118,122,131
Acenaphthene	62,64,129,212,249	Aroclor 1232	44,105,154,162,188,193, 213,224,243,289,312	Benzyl butyl phthalate	98,113,118,130	Butanal	91,130,180	Chlorodifluoromethane	115,118,122,131
Acenaphthene-d10	129,176	Aroclor 1242	44,105,154,162,188,193, 213,224,243,289,312	Benzyl chloride	87,130	Butanal-DNPH	91,130	Chloroethane	87,115,118,122,131,212
Acenaphthylene	62,64,129,212,249	Aroclor 1248	44,105,154,162,188,193, 213,224,243,289,312	Benzyl cinnamate	113,117	1-Butanethiol	301	bis(2-Chloroethoxy)methane	87,131,212
Acephate	69,129	Aroclor 1254	44,105,154,162,170, 188,193,213,224,243,289,312	Benzyl cyanide	113,117	(S)-(-)-1,2,4-Butanetriol	315,319	2-Chloro-4-ethylamino-6-propylamino-s-triazine	72
Acetaldehyde	91,129,180	Aroclor 1260	44,105,154,162,164,170, 188,193,213,224,243,289,312	Benzyl paraben	113,118	1-Butanol	91,130,218	2-Chloro-4-ethylamino-6-methylethylamino-s-triazine	72
Acetaldehyde-DNPH	91,129	Aroclor 1262	44,105,154,162, 188,193,213,224,243,289,312	Benzyl salicylate	113,117	Isobutanol	91	bis(2-Chloroethyl)ether	96,131,212
2-Acetamidofluorene	66	Aroclor 1268	44,105,154,162, 188,193,213,224,243,289,312	a-BHC	70,130,212	t-Butanol	91,130,218	Bis(2-Chloroethyl)ether	60
Acetamidiprid	69	Aroclor 1269	44,105,154,162,170, 188,193,213,224,243,289,312	b-BHC	70,130,212	Butocarbaxim	71	2-Chloroethylvinyl ether	96,131,186,187,216
Acetochlor	69,129	Aroclor 1270	44,105,154,162,170, 188,193,213,224,243,289,312	g-BHC	70,130,212	Butocarbaxim sulfonide	71	1-Chloro-2-fluorobenzene	87,131
Acetone	92,129,212,218	Aroclor 1271	44,105,154,162,170, 188,193,213,224,243,289,312	d-BHC	212	Butoxy carbaxim	71	1-Chloro-4-fluorobenzene	87,131,322,327
Acetone-DNPH	92,129	Aroclor 1272	44,105,154,162,170, 188,193,213,224,243,289,312	BHC Tech	70,130	Butralin	71	Chloroform	87,114,131,212
Acetonitrile	87,129,212,218	Aroclor 1273	44,105,154,162, 188,193,213,224,243,289,312	Bifenox	70,130	Buturon	71	1-Chlorohexane	88,131
Acetophenone	92,129,212	Aroclor 1274	44,105,154,162, 188,193,213,224,243,289,312	Bifenthrin	70,130	Isobutyl alcohol	135,212,218	p-Chloro-m-cresol	212
2-Acetylaminofluorene	129,212	Aroclor 1275	44,105,154,162, 188,193,213,224,243,289,312	Binapacryl	70,130	Butyl benzyl phthalate	212	Chloromethane	88,115,118,122,131,212
2-Acetylpyridine	113	Aroclor 1276	44,105,154,162, 188,193,213,224,243,289,312	2,2'-Binaphthyl	62	Butyl paraben	112,113,118	2-Chloro-4-methylamino-6-diethylamino-s-triazine	72
Acid Red 26	119	Aroclor 1277	44,105,154,162, 188,193,213,224,243,289,312	Bioallethrin	70	Isobutyl paraben	115,118		
Acilofluorin	69,129	Aroclor 1278	44,105,154,162, 188,193,213,224,243,289,312	S-Bioallethrin	70	Butylate	71,130,270	2-Chloro-4-methylamino-6-sec-butylamino-s-triazine	72
Acilofluorin methyl ester	69,129	Aroclor 1279	44,105,154,162, 188,193,213,224,243,289,312	Biodesel 100	322,323	Butylated hydroxyanisole	113	bis-(Chloromethyl)ether	131
Acridine	62	Aroclor 1280	44,105,154,162, 188,193,213,224,243,289,312	Biodesel 20	322,323	Butylated hydroxytoluene	113	4-Chloro-3-methylphenol	131
Acridinethrin	69	Aroclor 1281	44,105,154,162, 188,193,213,224,243,289,312	Biofuel 100	315,319	iso-Butylbenzene	89	1-Chloronaphthalene	48
Acrolein	91,129,212,218	Aroclor 1282	44,105,154,162, 188,193,213,224,243,289,312	Biofuel 20	315,319	n-Butylbenzene	87,130	2-Chloronaphthalene	48,131,212,233
Acrolein-DNPH	91,129	Aroclor 1283	44,105,154,162, 188,193,213,224,243,289,312	b-Ionone	115	sec-Butylbenzene	87,130	Chloroneb	72
Acrylamide	87,129,220	Aroclor 1284	44,105,154,162, 188,193,213,224,243,289,312	Bioresmethrin	71	tert-Butylbenzene	87,130	4-Chloro-2-nitroaniline	95
Acrylonitrile	87,129,212,218,220	Aroclor 1285	44,105,154,162, 188,193,213,224,243,289,312	Biphenyl	62,248	2-(4-Tert-Butylbenzyl)propionaldehyde	113,117	1-Chloro-3-nitrobenzene	87,231
Activator OT Urea	103	Aroclor 1286	44,105,154,162, 188,193,213,224,243,289,312	Bismuth	292	Isobutyrcyclohexyl phthalate	98	2-Chloronitrobenzene	67
a-Ionone	115	Aroclor 1287	44,105,154,162, 188,193,213,224,243,289,312	Bisphenol A	93,106,271	Butylene glycol	113	4-Chloronitrobenzene	67
Akrofax A	106	Aroclor 1288	44,105,154,162, 188,193,213,224,243,289,312	Bitertanol	71,130	Butyl-methoxydibenzoylmethane	113,118	4-Chloro-3-nitrobenzotrifluoride	131,228,234
Akrofax B	106	Aroclor 1289	44,105,154,162, 188,193,213,224,243,289,312	Bitrionol	113	p-Tert-Butylphenol	114,117	1-Chlorooctadecane	322,332,337
Alachlor	69,129	Aroclor 1290	44,105,154,162, 188,193,213,224,243,289,312	Bitrex	71	Isobutyraldehyde	207	3-Chloro-o-toluidine	95,120
Alanap	69,129	Aroclor 1291	44,105,154,162, 188,193,213,224,243,289,312	Bloc	71,130	Isobutyraldehyde-DNPH	92,207	4-Chloro-o-toluidine	95,120
Alanroot	113,117	Aroclor 1292	44,105,154,162, 188,193,213,224,243,289,312	Bolstar	71,130	Cadusafos	71	Chloropentafluoroethane	115,118,122,131
Alar	69	Aroclor 1293	44,105,154,162, 188,193,213,224,243,289,312	Bonzi	71	Calcium propionate	112	Chlorophacinone	72
Albendazole	69	Aroclor 1294	44,105,154,162, 188,193,213,224,243,289,312	Boscalid	71	Captafol	71,130	2-Chlorophenol	93,131,212
Aldicarb	69,129	Aroclor 1295	44,105,154,162, 188,193,213,224,243,289,312	Botran	71,130	Caplan	71,130	3-Chlorophenol	93
Aldicarb sulfone	69,129	Aroclor 1296	44,105,154,162, 188,193,213,224,243,289,312	Brodifacoum	71	Carbaryl	71,130,195	4-Chlorophenol	93
Aldicarb sulfoxide	69,129	Aroclor 1297	44,105,154,162, 188,193,213,224,243,289,312	Bromacil	71,130	Carbazole	62,130	o-Chlorophenol	93
Aldrin	69,85,129,212	Aroclor 1298	44,105,154,162, 188,193,213,224,243,289,312	Bromadiolone	71	Carbendazim	71,130,196	2-Chlorophenol-d4	93,131,193
Alkanox P27	104	Aroclor 1299	44,105,154,162, 188,193,213,224,243,289,312	Bromide	368	Carbetamide	71	4-Chlorophenyl methyl sulfoxide	52,86
Alkanox TNPP	104	Aroclor 1300	44,105,154,162, 188,193,213,224,243,289,312	Brominal	71,130	Carboturan	71,130,195	4-Chlorophenyl phenyl ether	60,131,212
Allethrin	69,129	Aroclor 1301	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-70-5	60	Carboturan phenol-3-ketone	71	2-Chlorophenyl-4-nitrophenyl ether	48,97,233
Alldochlor	69	Aroclor 1302	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-73-6	60	Carbon disulfide	87,130,212,301	3-Chlorophenyl-4-nitrophenyl ether	48,97,233
Allyl alcohol	91,129,218	Aroclor 1303	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carbon tetrabromide	87	4-Chlorophenyl-4-nitrophenyl ether	48,97,233
Allyl chloride	87,129,212	Aroclor 1304	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carbon tetrachloride	87,130,212,260	Chloropicrin	72,131,137
Allylsulfocyanate	113,117	Aroclor 1305	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carbonyl sulfide	301	Chloroprene	88,131,212,212,220,236
Ametyrin	69,84,129	Aroclor 1306	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carbophenothion	71,130,234	3-Chloro-1,2-propanediol	72,131
Amidosulfuron	69	Aroclor 1307	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carbophenothion methyl oxygen analog	71	3-Chloropropionitrile	88
1-Amino-4-nitronaphthalene	65	Aroclor 1308	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carbosulfan	71,130	Chloropropylate	72,131
1-Aminoanthracene	66	Aroclor 1309	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Carboxin	71,130	2-Chloropyridine	114
2-Aminoanthracene	66	Aroclor 1310	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	CAR-DNPH	267,330	2-Chloro-1,1,1,2-tetrafluoroethane	122,131
1-Aminoanthraquinone	66	Aroclor 1311	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	±-Carotene	112	Chlorothalonil	72,131
2-Aminoanthraquinone	66	Aroclor 1312	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Cartap	71	2-Chlorotoluene	88,131
o-Aminoazobenzene	94,120	Aroclor 1313	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Celogen AZ	105	3-Chlorotoluene	88
o-Aminoazotoluene	94,120	Aroclor 1314	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Celogen SD-125	106	4-Chlorotoluene	88,131
2-Aminobiphenyl	66,120	Aroclor 1315	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Cetene Alpha	114,117	Chlorotrifluoromethane	115,118,122,131
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Aminocarb	70,129,195	Aroclor 1317	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Chenopodium oil	117	Chloroxuron	72
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6-Aminochrysene	66	Aroclor 1319	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Chloral	117	Chlorpyrifos	131
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2-Amino-5-(diethylamino)toluene		Aroclor 1321	44,105,154,162, 188,193,213,224,243,289,312	Bromkal DE-79-8	60	Chloramben	71,130	Chlorpyrifos-oxon	72
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DDT, Tech	73,132	4,4'-Dibromooctadiphenyl	49,132,167,193,235,236,237			Dimethyl isophthalate	98	Disperse Blue 26	119,120
Decabromobiphenyl	61	2,3-Dibromophenol	61,221			Dimethyl phosphate	74,133	Disperse Blue 3	119,120
Decabromobiphenyl ether	55,105	2,4-Dibromophenol	61,221,222			Dimethyl phthalate	98,114,118,133,212,220	Disperse Blue 35	119,120
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	33,37	2,5-Dibromophenol	61,221			Dimethyl phthalate-3,4,5,6-d4	98,107	Disperse Blue 7	119,120
Decachlorobiphenyl	48,132,164,229	2,6-Dibromophenol	61,221			Dimethyl sulfate	89	Disperse Brown 1	119
Decachlorodiphenyl ether	48	3,5-Dibromophenol	61,221			4-Dimethylaminoazobenzene	66,95,133	Disperse Orange 1	119,120
Decafluorobiphenyl	49,132,177,193,248	2,4-Dibromophenyl-4-nitrophenyl ether	48,97,233			2,6-Dimethylaniline	95	Disperse Orange 11	119,120
Decafluorobiphenylphosphine	132,150,151,152,193,196,247	1,2-Dibromopropane	88,132,178,180			2,3-Dimethylantracene	62	Disperse Orange 3	119,120
Decafluorotriphenylphosphine (DFTPP)	42	2,3-Dibromopropanamide	220			9,10-Dimethylantracene	62	Disperse Orange 37	119,120
Decanal	91,132,180	2,3-Dibromopropionic acid	132,178,179			3,9-Dimethylbenz[a]anthracene	62	Disperse Red 1	119,120
Decanal-DNPH	91,132	2,3-Dibromopropionic acid methyl ester	178			6,8-Dimethylbenz[a]anthracene	62	Disperse Red 11	119,120
Decylbenzene	88	1,2-Dibromo-1,1,2,2-tetrafluoroethane	88			7,12-Dimethylbenz[a]anthracene	62,133,212	Disperse Red 17	119,120
Deet	73,132	1,2-Dibromotetrafluoroethane	122,132			2,5-Dimethylbenzaldehyde-DNPH	91,133	Disperse Yellow 3	119,120
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Dithianon	74	Ethylbenzene	89,134,212	2-Fluoro-2,4,4'-tribromodiphenyl ether	59	2,2',3,4,4',6,6'-Heptachlorobiphenyl	33	2,3,4,4',5,6-Hexachlorobiphenyl	32
Dithiopyr	74	Ethylbenzene-d10	89,134	3-Fluoro-2,4,4'-tribromodiphenyl ether	59	2,2',3,4,5,5,6'-Heptachlorobiphenyl	33	2,3,4,4',5,6'-Hexachlorobiphenyl	32
Dithiothreitol	165	6-Ethylchrysene	62	4-Fluoro-2,3,4-tribromodiphenyl ether	59	2,2',3,4,5,5,6'-Heptachlorobiphenyl	33,229	3,3',4,4',5,5'-Hexachlorobiphenyl	32,39
2,3-Diuron	74	Ethylene diamine dihydrochloride	114	4-Fluoro-2,3,6-tribromodiphenyl ether	59	2,2',3,4,5,6,6'-Heptachlorobiphenyl	33	Hexachlorobutadiene	60,89,135,212,233
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Dodecahydrotriphenylene	62	2-Ethylhexyl salicylate	115	Flurofen	76	2,3,3',4,5,5,6'-Heptachlorobiphenyl	33	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	50
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Endosulfan I	75,134,176	Farnesol	115,117	Fostiazate	76	2,2',4,4',6,6'-Hexabromobiphenyl	61	2-Hexanone	92,135,212,297
Endosulfan II	75,134	FD & C Blue 1	119	#1 Fuel oil	322,323	3,3',4,4',5,5'-Hexabromobiphenyl	61	Hexanone	76,135
Endosulfan I	212	FD & C Blue 2	119	#2 Fuel oil	322,323	Hexabromocyclodecane	60	trans-2-Hexenal diethyl acetal	115,117
Endosulfan II	212	FD & C Red 3	119	#3 Fuel oil	322,323	2,2',3,3',4,4'-Hexabromodiphenyl ether	55	trans-2-Hexenal dimethyl acetal	115,117
Endosulfan, mixed isomers	75	FD & C Red 40	119	#4 Fuel oil	322,323	2,2',3,3',4,5'-Hexabromodiphenyl ether	55	cis-3-Hexen-1-ol	121
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Endothal dimethyl ester	75	FD & C Yellow 6	119	#6 Fuel Oil	322	2,2',3,3',4,6'-Hexabromodiphenyl ether	55	Hexyl cinnamaldehyde	115,117
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Endothal dimethyl ester	134	Fenaminosulf	75,134	Furalaxyl	76	2,2',3,3',6,6'-Hexabromodiphenyl ether	55	Hexythiazox	77
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Ethanox 314	103	Fenthion	75,134	Halowax 1001	48,49,105	2,3,3',4,4',5'-Hexabromodiphenyl ether	55	4-Hydroxy-biphenyl	47
Ethanox 323	104,107	Fentin acetate	75	Halowax 1013	48,49,105	2,3,3',4,4',6'-Hexabromodiphenyl ether	55	3-Hydroxycarbofuran	77,135
Ethanox 330	104,107	Fenuron	75,134	Halowax 1014	48,49,105	2,3,3',4,5,5'-Hexabromodiphenyl ether	55	1-Hydroxychloridene	77,135
Ethanox 376	104	Fenuron TCA	75,134	Halowax 1051	48,49,105	2,3,3',4,5,5'-Hexabromodiphenyl ether	55	2-Hydroxy-5-chlorobiphenyl	46
Ethanox 702	104,107	Fenuron-TCA	195	Halowax 1099	48,49,105	2,3,3',4,5,6'-Hexabromodiphenyl ether	55	4-Hydroxy-2-chlorobiphenyl	46
Ethanox 703	103,107	Fenvalerate	75,134	Haloxyp	76,134	2,3,3',4,5,6'-Hexabromodiphenyl ether	55	4-Hydroxy-3-chlorobiphenyl	46
Ethaphos 368	104	Ferbam	75,134	Haloxyp methyl ester	76	2,3,4,4',5,5'-Hexabromodiphenyl ether	55	4-Hydroxy-4'-chlorobiphenyl	46
Ethephon	75,134	Fipronil	76,134	Haloxyp-methyl	134	2,3,4,4',5,6'-Hexabromodiphenyl ether	55	6-Hydroxychrysene	66
Ethidimuron	75	Fipronil desulfuril	76	HCBBCO	60	2,3,4,4',5,6'-Hexabromodiphenyl ether	55	Hydroxy-citronellal	115,117
Ethiofenecarb	75	Fipronil sulfide	134	1,2,3,4,7,8-HCDD	213	3,3',4,4',5,5'-Hexabromodiphenyl ether	55	2-Hydroxy-2,4-dibromodiphenyl ether	58
Ethiofenecarb sulfone	75	Fipronil sulfone	76,134	1,2,3,4,7,8-HCDD	213	Hexachlorobenzene	48,89,135,164,212,231,233	3-Hydroxy-2,4-dibromodiphenyl ether	58
Ethiofenecarb sulfide	75	Firemaster 2100	60	2,2',3,3',4,4',5'-Heptabromodiphenyl ether	55	2,2',3,3',4,4',5'-Hexachlorobiphenyl	32	2-Hydroxy-2',3'-dichlorobiphenyl	46
Ethion	75,134,234	Firemaster 680	60	2,2',3,3',4,4',6'-Heptabromodiphenyl ether	55	2,2',3,3',4,5'-Hexachlorobiphenyl	32	2-Hydroxy-2',5'-dichlorobiphenyl	46
Ethiozin	75	Firemaster BP4A	60,105	2,2',3,3',4,5,5'-Heptabromodiphenyl ether	55	2,2',3,3',4,5'-Hexachlorobiphenyl	32	2-Hydroxy-3',4'-dichlorobiphenyl	46
Ethirimol	75	Firemaster BP-6	60	2,2',3,3',4,5,6'-Heptabromodiphenyl ether	55	2,2',3,3',4,6'-Hexachlorobiphenyl	32	3-Hydroxy-2',5'-dichlorobiphenyl	46
Ethofumesate	75	Firemaster PHT4	60	2,2',3,3',4,5,6'-Heptabromodiphenyl ether	55	2,2',3,3',4,6'-Hexachlorobiphenyl	32	4-Hydroxy-2',5'-dichlorobiphenyl	46
Ethoprop	75,134	Firemaster T23P	60	2,2',3,3',4,6,6'-Heptabromodiphenyl ether	55	2,2',3,3',5,5'-Hexachlorobiphenyl	32	4-Hydroxy-3,5'-dichlorobiphenyl	46
2-Ethoxyethanol	114	Flamprop-methyl	76,134	2,2',3,3',4,6,6'-Heptabromodiphenyl ether	55	2,2',3,3',5,6'-Hexachlorobiphenyl	32	3-Hydroxy-2,2',3,4,4',5,5'-heptachlorobiphenyl	46
2-Ethoxyethanol acetate	114	Flazasulfuron	76	2,2',3,3',5,5,6'-Heptabromodiphenyl ether	55	2,2',3,3',5,6'-Hexachlorobiphenyl	32	4-Hydroxy-2,2',3,3',4,5,5'-heptachlorobiphenyl	46
Ethoxyquin	75	Florasulam	76	2,2',3,4,4',5,5'-Heptabromodiphenyl ether	55	2,2',3,3',6,6'-Hexachlorobiphenyl	32	5-Hydroxy-2,2',3,4,4',5,5'-heptachlorobiphenyl	46
Ethoxysulfuron	75	Fluazifop butyl	76,134	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55,105	2,2',3,4,4',5'-Hexachlorobiphenyl	32,229	3-Hydroxy-2,2',4,4',5,6'-hexabromodiphenyl ether	58
Ethyl acetate	89,134,218	Fluazifop-p-butyl	76,134	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55,56,261	2,2',3,4,4',5'-Hexachlorobiphenyl	32,229	6-Hydroxy-2,2',3,4,4',5'-hexabromodiphenyl ether	58
Ethyl acrylate	114,117	Fluazinam	76	2,2',3,4,4',6,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',6'-Hexachlorobiphenyl	32	6-Hydroxy-2,3,3',4,4',5'-hexabromodiphenyl ether	58
Ethyl arachidate	97,320	Fluchloralin	76,134	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',6'-Hexachlorobiphenyl	32	4-Hydroxy-2,3,3',4,4',5'-hexachlorobiphenyl	46
Ethyl behenate	97,320	Flucytrinate	76	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32,229	4-Hydroxyindole	119
Ethyl caprate	97,320	Fludioxonil	76	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	4-Hydroxylamino-2,6-dinitrotoluene	100,252
Ethyl caprylate	97,320	Flufenoxuron	76	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	2-Hydroxylamino-4,6-dinitrotoluene	100,252
Ethyl carbamate	75,134	Flumetralin	76	2,3,3',4,4',5,5'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	tris(Hydroxymethyl)nitromethane	115
Ethyl erucate	97,320	Flumetsulam	76	2,3,3',4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	Hydroxymethylpentacyclohexene carboxaldehyde	117
Ethyl heptadecanoate	98,320	Flumeturon	76,134,195	2,3,3',4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32,229	Hydroxymethylpentacyclohexene carboxaldehyde	115
Ethyl hexanediol (mixed isomers)	75	Fluoranthene	62,64,134,212,249	2,3,3',4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	2-Hydroxy-4-monobromodiphenyl ether	58
Ethyl laurate	98,320	Fluorene	62,64,134,212,249	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	4-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl lignocerate	98,320	Fluoride	368	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	5-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl linoleate	98,320	2-Fluoroacetamide	89	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl linolenate	98,320	4-Fluoroaniline	95,134,193	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl linolenate gamma	98	Fluorobenzene	89,134,161,168,215	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl mercaptan	301	2-Fluorophenyl	49,134,193	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl methacrylate	89,134,212	3-Fluoro-2,4-dibromodiphenyl ether	59	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl methanesulfonate	89,134	3-Fluoro-2,4,4',5,6-hexabromodiphenyl ether	59	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl methyl sulfide	301	4-Fluoro-2,3,3',4,5,6-hexabromodiphenyl ether	59	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl myristate	98,320	1-Fluoronaphthalene	134,193	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl nervonate	98,320	2-Fluoronaphthalene	134,193	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl oleate	98,320	4-Fluoro-2,2',3,3',4,5,5,6'-nonabromodiphenyl ether	59	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
Ethyl palmitate	98,320	2-Fluoro-2,2',4,4',6-pentabromodiphenyl ether	59	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	55	2,2',3,4,4',5,5'-Hexachlorobiphenyl	32	6-Hydroxy-2,2',3,4,5-pentabromodiphenyl ether	58
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1-Hydroxypyrene	66	JP-10 Aviation Fuel	322	4-Methoxy-m-phenylenediamine-sulfate hydrate	116	3-Methylbenzo(b)thiophene	301	Monomethyltetrachloroteraphthalate	79
2-Hydroxy-2,3,4,5-tetrabromodiphenyl ether	58	JP-10 Fuel	323	4-Methoxy-2,2,3,4,5-pentabromodiphenyl ether	58	5-Methylbenzo(b)thiophene	301	Monolein	315,319
2-Hydroxy-2,4,4',6-tetrabromodiphenyl ether	58	JP-4 Fuel	323	5-Methoxy-2,2,4,4',5-pentabromodiphenyl ether	58	2-Methylbenzofuran	121	2-Monuron	79
3-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	58	JP-4 Jet Fuel	322	6-Methoxy-2,2,3,3',4-pentabromodiphenyl ether	58	4-Methyl-benzylidene camphor	116,118	Monuron	79,136,195
4-Hydroxy-2,2',3,4'-tetrabromodiphenyl ether	58	JP-5 Fuel	322,323	6-Methoxy-2,2,3,4,4'-pentabromodiphenyl ether	58	Methylchloroisothiazolinone	116	Monuron TCA	79,136
4-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	58	JP-7 Fuel	322,323	6-Methoxy-2,2,3,4,5-pentabromodiphenyl ether	58	3-Methylcholanthrene	63,136,212	Monuron-TCA	195
5-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	58	JP-8 Fuel	322,323	6-Methoxy-2,2,4,4',5-pentabromodiphenyl ether	58	4-Methylchrysene	63	Morflex 150	106
6-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	58	JP-TS	323	2-Methoxy-2,3,4,5,5'-pentachlorobiphenyl	46	5-Methylchrysene	63	Morflex 190	106
2-Hydroxy-2',3,4,5-tetrachlorobiphenyl	46	JP-TS Aviation Fuel	322	2-Methoxy-2,3,4,5,6-pentachlorobiphenyl	46	6-Methylchrysene	63	Morflex 560	106
2-Hydroxy-2',3,5,6-tetrachlorobiphenyl	46	Kadethrine	77	2-Methoxy-2,3,5,5',6-pentachlorobiphenyl	46	7-Methylcoumarin	116	Morflex x-1125	106
2-Hydroxy-2',4,5,6'-tetrachlorobiphenyl	46	Karbutilate	77	4-Methoxy-2,2,3,4,5'-pentachlorobiphenyl	46	Methylcoumarin	116,117	Motor Oil	323
3-Hydroxy-2,2',6,6'-tetrachlorobiphenyl	46	Karmex	77,135	4-Methoxy-2,2,3,5,5'-pentachlorobiphenyl	46	Methylchloroglutaronitrile	116	MSTFA	315,319
3-Hydroxy-2',3,4,5-tetrachlorobiphenyl	46	Kethane	77,135	4-Methoxy-2,2,4,4,5,5'-pentachlorobiphenyl	46	2-Methyl-4,6-dinitroanisole	78	MBE	96,136
3-Hydroxy-2',3,5,6-tetrachlorobiphenyl	46	Kemamide E ultra	106	2-Methoxy-2,3,4,5'-tetrabromodiphenyl ether	58	2-Methyl-4,6-dinitrophenol	93	Musk ambrette	116,117
4-Hydroxy-2,2',4,6-tetrachlorobiphenyl	46	Kepon	77,135,212	2-Methoxy-2,4,4,6-tetrabromodiphenyl ether	58	4,4'-Methylene bis(2-chloroaniline)	66	Mycolbutanil	79,136
4-Hydroxy-2',3,4,5-tetrachlorobiphenyl	46	Kerosene	322,323,324	3-Methoxy-2,2,4,4'-tetrabromodiphenyl ether	58	Methylene chloride	89,116	Nabam	79,136
4-Hydroxy-2',3,4,6-tetrachlorobiphenyl	46	3-Ketocarbonyluran	77,135	4-Methoxy-2,2,3,4'-tetrabromodiphenyl ether	58	Methylene chloride-d2	89,136,160	Naled	79,136
4-Hydroxy-2',3,5,5'-tetrachlorobiphenyl	46	Kresoxim-methyl	77	4'-Methoxy-2,2,4,5'-tetrabromodiphenyl ether	58	4,4'-Methylenebis(2-chloroaniline)	95	Naphtha	322,323
4-Hydroxy-2',3,5,6-tetrachlorobiphenyl	46	Lacquer thinner	323	5-Methoxy-2,2,4,4'-tetrabromodiphenyl ether	58	4,4'-Methylenebis(2-chloroaniline)	120	Naphthalene	48,63,64,89,121,136,212,249
5-Hydroxy-2,2',4,6'-tetrachlorobiphenyl	46	Lacquer Thinner	322	6-Methoxy-2,2,4,4'-tetrabromodiphenyl ether	58	4,4'-Methylenebis(phenyl isocyanate)	311	1-Naphthalene acetamide	79,136
2-Hydroxy-2,4,4'-tribromodiphenyl ether	58	Lanolin, anhydrous	115	2-Methoxy-2,3,4,5'-tetrachlorobiphenyl	46	4,5-Methylenebiphenanthrene	63	Naphthalene-d8	136,193
3-Hydroxy-2,4,4'-tribromodiphenyl ether	58	Laurex	106	2-Methoxy-2,3,5,6'-tetrachlorobiphenyl	46	Methyl Eugenol	116,117	2,3-Naphthalenediol	119
4-Hydroxy-2,2',4,6-tribromodiphenyl ether	58	Lead	115	2-Methoxy-2,4,5,6'-tetrachlorobiphenyl	46	2-Methylfluoranthene	63	1-Naphthol	136
2-Hydroxy-2',4,6-trichlorobiphenyl	46	Lenacil	77	3-Methoxy-2,3,4,5'-tetrachlorobiphenyl	46	5-Methyl-2,3-hexanedione	116,117	1,4-Naphthoquinone	136,212
2-Hydroxy-2',5,5'-trichlorobiphenyl	46	Leptophos	77,234	3-Methoxy-2,3,5,6'-tetrachlorobiphenyl	46	4-Methylimidazolidine-2-thione	165	1-Naphthylamine	136,212
3-Hydroxy-2',4,6-trichlorobiphenyl	46	Lethane 384	77	4-Methoxy-2,3,4,5'-tetrachlorobiphenyl	46	2-Methylisoborneol	121	2-Naphthylamine	95,120,136,212
4-Hydroxy-2',5,6-trichlorobiphenyl	46	Lethron	77	4-Methoxy-2,3,4,6'-tetrachlorobiphenyl	46	1-Methylnaphthalene	63,136,249	Napropamide	79,136,195
4-Hydroxy-2',3,5'-trichlorobiphenyl	46	Linalol	115,117	4-Methoxy-2,3,5,5'-tetrachlorobiphenyl	46	2-Methylnaphthalene	63,136,212,249	1-Naphthylacetic acid	79
4-Hydroxy-2',4,6-trichlorobiphenyl	46	Lindane	77,85,135	2-Methoxy-2,4,4'-tribromodiphenyl ether	58	2-Methyl-4-nitroaniline	95,102,136,232	Naugard 412S	104
Hymexazol	77	Linuron	77,135,195	3-Methoxy-2,4,4'-tribromodiphenyl ether	58	3-Methyl-4-nitrophenol	78,136	Naugard 445	104
Imazalil	77	Lontrel	77,135	4-Methoxy-2,2,4,4'-tribromodiphenyl ether	58	N-methyl-N'-nitro-N-nitrosoguanidine	67	Naugard 956	104
Imazamethabenz methyl	77	Lowinox AH25	104	2-Methoxy-2,4,6'-trichlorobiphenyl	46	N-Methyl-N'-nitro-N-nitrosoguanidine	66	Naugard A	104
Imazapyr	77	Lowinox CPL	104	2-Methoxy-2,5,5'-trichlorobiphenyl	46	Methylpentachlorophenyl sulfide	78	Naugard B-25	104
Imazapir	77	Lowinox TBM-6	104	3-Methoxy-2,4,6'-trichlorobiphenyl	46	4-Methyl-2-pentanone	92,136,212,218	Naugard BHT	104
Imazethapyr	77,84	Lufenuron	77	4-Methoxy-2,2,5'-trichlorobiphenyl	46	1-Methylphenanthrene	63	Naugard HM-22	104
Imazosulfuron	77	Malaoxon	77	4-Methoxy-2,3,5'-trichlorobiphenyl	46	2-Methylphenanthrene	63	Naugard J	104
Imidacloprid	77	Malathion	77,135,234	4-Methoxy-2,4,6'-trichlorobiphenyl	46	3-Methylphenanthrene	63	Naugard NBC	104
Imidan	77,135	Maleic hydrazide	178	Methyl bromochloroacetate	89,179	9-Methyl-9-phenylfluorene	63	Naugard PANA	104
Imidazolidinyl urea	115	Mancozeb	77	Methyl 2,3-dibromopropionate	89,179	1-Methyl-1-propanethiol	301	Naugard PHR	104
Indalone	77	Maneb	77	Methyl 2-bromopropionate	89,135,178	2-Methyl-1-propanethiol	301	Naugard PS-30	104
Indan	63,121	Marathon	135	Methyl bromide	89	2-Methyl-2-propanethiol	301	Naugard PS-35	104
Indene	63,121	Markstat 51	106	Methyl bromoacetate	97,135,178,179	2-Methyl-1-propanol	91	Naugard Q Extra	104
Indenyl 1,2,3-cd]pyrene	63,64,135,212,249	Markstat 60	104	Methyl bromochloroacetate	97,135,178,179	1-Methylpyrene	63	Naugard RM-51	104
Indole	63	MCPA	236	Methyl bromodichloroacetate	97,135,179	3-Methylsulfonyl-2,2',3',4',5',5',6'-heptachlorobiphenyl	47	Naugard Super Q	104
Indoxacarb	77	MCPA acid	77,135	Methyl chloride	89	4-Methylsulfonyl-2,2',3',4',5',5',6'-heptachlorobiphenyl	47	Naugard XL-1	104
Iodide	368	MCPA methyl ester	77,135	Methyl chloroacetate	97,178,179	3-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Neburon	79,136,195
Iodofenphos	77,135	MCPB acid	77,135	Methyl chlorodibromoacetate	97,135,179	3-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Nickel	116
Iodosulfuron-methyl-sodium	77	MCPB methyl ester	78,135	Methyl dibromoacetate	97,136,178,179	3-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Niclosamide	79,136
Ioxynil	77,135	MCPD	236	Methyl dichloroacetate	97,136,178,179	3-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Nicosulfuron	112
Iprobenfos	77	MCPD acid	78,135	Methyl disulfide	301	3-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Nicotinamide	79
Iprodione	77,135	MCPD methyl ester	78,135	1-Methyl ethyl benzene	89	4-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Nicotinic acid	112
Iprovalcarb	77	Mecarbin	78	Methyl ethyl ketone	92,136,212,218	3-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Nitenpyram	79
Irganox 1035	104,107	Mecoprop, 2-Ethylhexyl ester	78,135	Methyl heptyne carbonate	116,117	4-Methylsulfonyl-2,2',3',4',5',5',6'-hexachlorobiphenyl	47	Nitralin	79
Irganox 1081	104	Mefenacet	78	Methyl iodide	89,136,217	3-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	Nitrapyrin	79
Irganox 1098	104	Melamine	112	Methyl iodide	106,116,117	3-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	Nitrate-Nitrogen	368
Irganox 1425 WL	104	Menadione	112	Methyl isobutyl ketone	121,136	3-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	Nitrite-Nitrogen	368
Irganox 245	104	Menaquinone	112	Methyl isothiocyanate	89,136,205	3-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	5-Nitroacenaphthene	65
Irganox 259	104	Mepanipyrim	78	Methyl mercaptan	301	3-Methylsulfonyl-2,3',4',5',6'-pentachlorobiphenyl	47	2-Nitroaniline	65,96
Irganox 3114 FF	104	Mephosolan	78	Methyl methacrylate	89,136,212	4-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	3-Nitroaniline	65,96
Irganox 3125	104	Mepronil	78	Methyl methacrylate monomer	116	4-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	4-Nitroaniline	65,96
Irganox 565	104	Mercaptobenzothiazole	135,196	Methyl methanesulfonate	89,136,212	4-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	o-Nitroaniline	96,136,212
Irganox E 201	104	Mercury	115	Methyl nonyl ketone	78,136	4-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	p-Nitroaniline	96,136,213
Irganox MD 1024	104	Merpoph	78,135	Methyl paraben	112,116,118	4-Methylsulfonyl-2,2',3',4',5',5',6'-pentachlorobiphenyl	47	4-Nitroanisole	79,136
Irgarol	77	Metabromsalon	115	Methyl paraoxon	78,136	4-Methylsulfonyl-2,3,3',4',5',6'-pentachlorobiphenyl	47	2-Nitroanthracene	65
Isazophos	77	Metaxyl	78,135	Methyl parathion	78,136,212	3-Methylsulfonyl-2,2',3',4',5',6'-tetrachlorobiphenyl	47	9-Nitroanthracene	65
Isobenzan	77	Metalddehyde	78,135	Methyl sulfide	301	3-Methylsulfonyl-2,2',3',4',5',6'-tetrachlorobiphenyl	47	7-Nitrobenz[a]anthracene	65
2-Isobutyl-3-methoxypyrazine	121	Metamitron	78,135	Methyl t-butyl ether	218,301	3-Methylsulfonyl-2,3',4',5',6'-tetrachlorobiphenyl	47	6-Nitrobenz[a]pyrene	65
Isodrin	77,135,212	Metam-sodium dihydrate	78	Methyl t-butyl ether (MBE)	187	4-Methylsulfonyl-2,2',3',4',5',6'-tetrachlorobiphenyl	47	Nitrobenzene	65,89,100,136,213,252
Isogenol	115,117	Metazachlor	78,135	Methyl trans-2-butoxate	116,117	4-Methylsulfonyl-2,2',3',4',5',6'-tetrachlorobiphenyl	47	Nitrobenzene-d5	89,136,174,193
Isophenphos	77,135	Metconazole	78	Methyl tribromoacetate	97,136,179	4-Methylsulfonyl-2,3',4',5',6'-tetrachlorobiphenyl	47	2-Nitrophenyl	65,67
Isorex 132	104	Methabenzthiazuron	78	Methyl trichloroacetate	97,136,178,179	4-Methylsulfonyl-2,3',4',5',6'-tetrachlorobiphenyl	47	3-Nitrophenyl	65,67
Isorex 232	104	Methacrilos	78	Methyl trithion	78	2-Methylthiophene	301	4-Nitrophenyl	65,67
Isocactene	313	Methacrylonitrile	89,135,212	Methyl Violet 2B	119	3-Methylthiophene	301	6-Nitrochrysene	65
Isophorone	92,135,212	Methanol	91,135,218,330,338	Methyl-2,3-dibromopropionate	135	Metiram	78	3-Nitrodibenzofuran	52,65
Isoprocab	77	Methaparylene	17,135,212	Methyl-2,4-dichlorophenylacetate	78	Metobromuron	78	2-Nitrodibenzothiophene	65
Isopropalin	77,135	Methidathion	78,135	Methyl-2,4-Dichlorophenylacetate	136	Metolachlor	78,136	N-Nitrodiphenylamine	100,252
Isopropanol	91,135,218	Methiocarb	78,135,195	Methyl-3,5-dichlorobenzoate	78,136	Metolcarb	79	Nitrofen	79
Isopropyl ether	206	Methomyl	78,135,195	9-Methylacridine	52,86	Metoxuron	79	3-Nitrofluoranthene	65
Isopropyl paraben	115,118	Methoprene	78,135	Methylamine	95	Metribuzin	79,136	2-Nitrofluorene	65
2-Isopropylamino-4,6-dichloro-s-triazine	77	Methoprotrene	78	Methylamine hydrochloride	78	Metsulfuron methyl	79,136	Nitrogen	290,301,368
Isopropylbenzene	89,135	Methoxychlor	78,85,135,212	1-Methylantracene	63	Mevinphos	79,136	1-Nitroglycerin	100,252
2-Isopropyl-3-methoxypyrazine	121	o,p'-Methoxychlor	78,135	2-Methylantracene	63	Mezocarbamate	79,136,195	2-Nitroglycerin	100,252
2-Isopropyl-6-methyl-4-pyrimidinol	77	2-Methoxy-5-chlorobiphenyl	46	3-Methylantracene	63	MGK 264	79,136	Nitroglycerin	100,252
n,n'-bis(4-isopropylphenyl)urea	52,86	4-Methoxy-2-chlorobiphenyl	46	10-Methylbenz[a]anthracene	63	MGK 326	79,136	Nitroguanidine	100,136,252
2- & 4-isopropylthioxanth-9-one	112	4-Methoxy-3-chlorobiphenyl	46	1-Methylbenz[a]anthracene	63	Mineral spirits	323	Nitromethane	100,136,252
2-Isopropylthioxanth-9-one	112,262	4-Methoxy-4-chlorobiphenyl	46	2-Methylbenz[a]anthracene	63	Mineral Spirits	322	1-Nitronaphthalene	65
Isophtalolane	77	p,p'-Methoxychlor-olefin	78,135	3-Methylbenz[a]anthracene	63	Mirex	79,136	2-Nitronaphthalene	65
Isoproturon	77	7-Methoxycoumarin	115,117	4-Methylbenz[a]anthracene	63	m-Nitroaniline	96,136,213	5-Nitro-o-toluidine	96,136,213
Isquinoline	63	2-Methoxy-2,4-dibromodiphenyl ether	58	5-Methylbenz[a]anthracene	63	Molinate	79,136	3-Nitrophenanthrene	65
Isosafrole	135,212	3-Methoxy-2,4-dibromodiphenyl ether	58	6-Methylbenz[a]anthracene	63	Monalide	79	9-Nitrophenanthrene	65
Isosvaleraldehyde-DNPH	135	2-Methoxy-2,3'-dichlorobiphenyl	46	7-Methylbenz[a]anthracene	63	Monitor	79,136	2-Nitrophenol	65,67,93
Isosaben	77	3-Methoxy-2,5'-dichlorobiphenyl	46	9-Methylbenz[a]anthracene	63	Monobenzyl phthalate	116,118	3-Nitrophenol	93
Isosafutole	77	4-Methoxy-2,5'-dichlorobiphenyl	46	10-Methylbenz[a]pyrene	63	Monobromoacetic acid	97,136,179	4-Nitrophenol	65,67,93
Jayflex 77	106	4-Methoxy-3,5'-dichlorobiphenyl	46	8-Methylbenz[a]pyrene	63	Monobutyl phthalate	116,118	o-Nitrophenol	136,213
Jayflex DDP Plasticizer	106	Methoxyfenozone	78	9-Methylbenz[a]pyrene	63	Monochloroacetic acid	97,136,179	p-Nitrophenol	136,213
Jayflex DNP Plasticizer	106	4-Methoxy-2,2',3',4',5',5'-heptachlorobiphenyl	46	1-Methylbenz[a]phenanthrene	63	Monocrotophos	79,136,234	4-Nitrophenyl phenyl ether	46,97,233
Jayflex DTPD plasticizer	106	6-Methoxy-2,2,3,4,4',5'-hexabromodiphenyl ether	58	2-Methylbenz[c]phenanthrene	63	Monothanolamine	116	2-Nitro-1,4-phenylenediamine	119,120
Jayflex L11P-E plasticizer	106	6-Methoxy-2,2,3,4,4',5'-hexabromodiphenyl ether	58	4-Methylbenz[c]phenanthrene	63	Monothyl phthalate	116,118	1-Nitropyrene	65
Jayflex TINTM plasticizer	106	4-Methoxy-2,3,3',4',5',5'-hexachlorobiphenyl	46	5-Methylbenz[c]phenanthrene	63	Monothylhexyl phthalate	116,118	4-Nitroquinoline-1-oxide	136,213
Jet Fuel	3								

Organic Analyte Index

This is a listing of Analytes used in single analyte solutions. It does not include organic analytes in mixtures or inorganic elements.
For the complete list, visit www.accustandard.com.

ANALYTE	PAGE	ANALYTE	PAGE	ANALYTE	PAGE	ANALYTE	PAGE	ANALYTE	PAGE
N-Nitrosodimethylamine-d6	168	Pencycuron	80	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	50	Potassium n-hydroxymethyl-n-methyl		SAE 50 W motor oil	323
N-Nitrosodi-n-butylamine	96,136,213,218	Pendimethalin	80,137	1,2,3,8,9-Pentachlorodibenzo-p-dioxin	50	dithiocarbamate	80	SAE 50W Motor Oil	323
N-Nitrosodi-n-propylamine	96,136	Pentabromobenzylacrylate	60	1,2,4,7,8-Pentachlorodibenzo-p-dioxin	50	Potassium nitrate	112	SAE 5W30 Motor Oil	323
N-Nitrosodi-n-propylamine-d14	168	Pentabromobenzylbromide	60	Pentachloroethane	89,137,213	Potassium nitrite	112	Safrole	138,213
N-Nitrosodiphenylamine	19,96,136,213	2,2',4,4',5'-Pentabromobiphenyl	61	Pentachloronitrobenzene		Potassium perfluorooctanesulfonate	121	Salicylic acid	117
N-Nitrosodipropylamine	213	2,2',4,4',5'-Pentabromobiphenyl	61	80,137,164,165,213,224,228		Potassium sorbate	112,116,118	Santanox R	107
N-Nitrosomethyl ethylamine	96,136,213	2,2',3,3',4'-Pentabromodiphenyl ether	54	Pentachlorophenol	94,137,193,213	Prallethrin	80	Santicizer 141	106
N-Nitrosomorpholine	136,213	2,2',3,3',5'-Pentabromodiphenyl ether	54	Pentachlorophenol-13C6	94	Prebabe	80,137	Santicizer 148	106
N-Nitroso-N-methyl ethylamine	96	2,2',3,4,4'-Pentabromodiphenyl ether	54	n-Pentadecane	322	Prellachlor	80	Santicizer 160	106
1-Nitrosopiperidine	96	2,2',3,4,5'-Pentabromodiphenyl ether	54	Pentadecylbenzene	89	Primisulfuron-methyl	80	Santicizer 261	106
N-Nitrosopiperidine	136,213	2,2',3',4,5'-Pentabromodiphenyl ether	54	Pentafluorobenzene	90,137	Probenazole	80	Santicizer 278	104
N-Nitrosopyrrolidine	136,213	2,2',3',4',5'-Pentabromodiphenyl ether	54	O-(2,3,4,5,6-Pentafluorobenzyl)hydroxylamine		Prochloraz	80	Santoflex 77PD	103
Nitrothiol-isopropyl	79	2,2',3,4,5'-Pentabromodiphenyl ether	54	hydrochloride	180	Procymidone	80	Santoflex IPPD	103
2-Nitrotoluene	65,67,100,136,252	2,2',3,4,6'-Pentabromodiphenyl ether	54	Pentafluoroethane	122,137	Prodiamine	80	Schradan	81
3-Nitrotoluene	100,136,252	2,2',3,4,6'-Pentabromodiphenyl ether	54	Pentafluorophenol	94,137,193	Profenofos	80,137	Scotchgard	121
4-Nitrotoluene	100,136,252	2,2',3,4,6'-Pentabromodiphenyl ether	54	Pentalan	92,137,180	Profluralin	137	Sebuthylazine	81,84
N,N-Dimethyl-1,4-phenylenediamine	119,120	2,2',3,5,5'-Pentabromodiphenyl ether	54	Pentalan-DNPH	92,137	Profluralin	137	Secbumeton	81,138
2,2',3,3',4',4',5',5'-Nonabromodiphenyl ether	55	2,2',3,5,6'-Pentabromodiphenyl ether	54	2-Pentanone	92,137,218	Promecarb	80,137	Sethoxydim	81
2,2',3,3',4',4',5',6'-Nonabromodiphenyl ether	55	2,2',4,4',5'-Pentabromodiphenyl ether	54,105	Perchlorate	365	Prometon	80,84,137	Siduron	81,138,195
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2,3,4,6-Tetrabromodiphenyl ether	54	Tetrafluoroethane	115,118,122,138	2,3,3'-Tribromodiphenyl ether	53	Tridemorph	83		
2,3,4,6-Tetrabromodiphenyl ether	54	1,2,3,4-Tetrahydrofluoranthene	63	2,3,4-Tribromodiphenyl ether	53	Trietazine	83		
2,3',4',6-Tetrabromodiphenyl ether	54	Tetrahydrofuran	90,138,210	2,3,4-Tribromodiphenyl ether	53	Triethanolamine	117		
2,3,5,5'-Tetrabromodiphenyl ether	54	1,2,3,6-Tetrahydrothiathalimide	82	2,3,4'-Tribromodiphenyl ether	53	O,O,O-Triethyl phosphorothioate	213		
2,3',5',6-Tetrabromodiphenyl ether	54	cis-6,6-Tetrahydrothiathalimide	82	2,3,4-Tribromodiphenyl ether	53	Triethylphosphate	83,139		
2,4,4',6-Tetrabromodiphenyl ether	54	3,4,5,6-Tetrahydro-2-pyrimidinethiol	165	2,3,5-Tribromodiphenyl ether	53	o,o,o-Triethylphosphorothioate	83,139		
2,4,4',6-Tetrabromodiphenyl ether	54	Tetramethrin	82	2,3,5-Tribromodiphenyl ether	53	Trifloxystrobin	83		
3,3',4,4'-Tetrabromodiphenyl ether	54,261	1,2,3,4-Tetramethylbenzene	90	2,3,5-Tribromodiphenyl ether	53	Triflumuron	83		
3,3',4,5'-Tetrabromodiphenyl ether	54	1,2,3,5-Tetramethylbenzene	90	2,3,6-Tribromodiphenyl ether	53	Triflumuron	83		
3,3',4,5-Tetrabromodiphenyl ether	54	1,2,4,5-Tetramethylbenzene	90	2,4,4'-Tribromodiphenyl ether	53	2',4',5'-Trifluoroacetophenone	92,138,180		
3,3',5,5'-Tetrabromodiphenyl ether	54	3,3',5,5'-Tetramethylbenzidine	96	2,4,5-Tribromodiphenyl ether	53	1,1,1-Trifluoroethane	122,139		
3,4,4',5-Tetrabromodiphenyl ether	54	3,3',5,5'-Tetramethylbenzidine	120	2,4,5-Tribromodiphenyl ether	53	Trifluoromethane	115,118,122,139		
Tetrabromo-o-chlorotoluene	60	2,2',6,6'-Tetranitro-4,4'-azotoluene	100,252	2,4,6-Tribromodiphenyl ether	53	±,±,±-Trifluorotoluene	162,187		
2,3,4,5-Tetralenol	61,221	4,4',6,6'-Tetranitro-2,2'-azotoluene	100,252	2,4,6-Tribromodiphenyl ether	53	a,a,a-Trifluorotoluene	139		
2,3,4,6-Tetralenol	61,221	2,2',6,6'-Tetranitro-4,4'-azoxytoluene	100,252	3,3,4-Tribromodiphenyl ether	53	Trifluralin	83,139		
2,3,5,6-Tetralenol	61,221	Tetra-n-propyl tin	251	3,3,5-Tribromodiphenyl ether	53	Trifluorsulfuron-methyl	83		
3,3',4,4'-Tetrachloroazobenzene	52,86	Tetrapentyltin	251	3,4,4'-Tribromodiphenyl ether	53	Trifluorine	83		
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1,2,4,5-Tetrachlorobenzene	90,138,213,233	Thiacloprid	82	2,4,5-Tribromophenol	61,221	Trimethyl phosphate	83,139		
2,2',3,3'-Tetrachlorobiphenyl	31	Thiamethoxam	82	2,4,6-Tribromophenol	61,221	2,4,5-Trimethylaniline	96,120		
2,2',3,4'-Tetrachlorobiphenyl	31	Thiamine	112	61,94,139,151,188,193,221,231		4,6,8-Trimethylazulene	63		
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2,2',3,5-Tetrachlorobiphenyl	31,229	Thianthrene	63	2,4,6-Tribromophenol-PFB	139,188	1,2,3-Trimethylbenzene	90,306,307,308,323,336		
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2,3,4,4'-Tetrachlorobiphenyl	31,229	Thiuram	117	2,3,4-Trichlorobiphenyl	30	Turbine (Jet) fuel	323		
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2,3,4,5-Tetrachlorobiphenyl	31	Tokuthion	82,138	2,3,5-Trichlorobiphenyl	30	Unichlor 502-50	60		
2,3,4,6-Tetrachlorobiphenyl	31	Tolclofos-methyl	83	2,3,6-Trichlorobiphenyl	30	Unichlor 70AX	60		
2,3,4,6-Tetrachlorobiphenyl	31	o-Tolidine	66	2,3,6-Trichlorobiphenyl	30	Uvinul 3000	106		
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2,3,4,6-Tetrachlorobiphenyl	31	o-Tolaldehyde-DNPH	92,138	2,4,5-Trichlorobiphenyl	30	Uvinul 3040	106		
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6 _____	_____	_____	
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