

Single-Element Standards for AAS

1000 mg/l for AAS Flame

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Silver	Ag	in 2-5% HNO ₃	1000 mg/l	100	ml	A001.2NPL1
				500	ml	A001.2NPL5
Aluminium	Al	in 2-5% HCl	1000 mg/l	100	ml	A002.2CPL1
				500	ml	A002.2CPL5
Aluminium	Al	in 2-5% HNO ₃	1000 mg/l	100	ml	A002.2NPL1
				500	ml	A002.2NPL5
Arsenic	As	in 2-5% HCl	1000 mg/l	100	ml	A003.2CPL1
				500	ml	A003.2CPL5
Arsenic	As	in 2-5% HNO ₃	1000 mg/l	100	ml	A003.2NPL1
				500	ml	A003.2NPL5
Gold	Au	in 2-5% HCl	1000 mg/l	100	ml	A004.2CPL1
				500	ml	A004.2CPL5
Boron	B	in H ₂ O	1000 mg/l	100	ml	A005.WL1
				500	ml	A005.WL5
Barium	Ba	in 2-5% HCl	1000 mg/l	100	ml	A006.2CPL1
				500	ml	A006.2CPL5
Barium	Ba	in 2-5% HNO ₃	1000 mg/l	100	ml	A006.2NPL1
				500	ml	A006.2NPL5
Beryllium	Be	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A007.2N1FPL1
				500	ml	A007.2N1FPL5
Beryllium	Be	in 2-5% HCl	1000 mg/l	100	ml	A007.2CPL1
				500	ml	A007.2CPL5
Bismuth	Bi	in 5-10% HNO ₃	1000 mg/l	100	ml	A008.10NPL1
				500	ml	A008.10NPL5
Calcium	Ca	in 2-5% HCl	1000 mg/l	100	ml	A009.2CPL1
				500	ml	A009.2CPL5
Calcium	Ca	in 2-5% HNO ₃	1000 mg/l	100	ml	A009.2NPL1
				500	ml	A009.2NPL5
Cadmium	Cd	in 2-5% HCl	1000 mg/l	100	ml	A010.2CPL1
				500	ml	A010.2CPL5
Cadmium	Cd	in 2-5% HNO ₃	1000 mg/l	100	ml	A010.2NPL1
				500	ml	A010.2NPL5
Cerium	Ce	in 2-5% HNO ₃	1000 mg/l	100	ml	A011.2NPL1
				500	ml	A011.2NPL5
Cobalt	Co	in 2-5% HCl	1000 mg/l	100	ml	A012.2CPL1
				500	ml	A012.2CPL5
Cobalt	Co	in 2-5% HNO ₃	1000 mg/l	100	ml	A012.2NPL1
				500	ml	A012.2NPL5
Chromium	Cr	in 2-5% HCl	1000 mg/l	100	ml	A013.2CPL1
				500	ml	A013.2CPL5
Chromium	Cr	in 2-5% HNO ₃	1000 mg/l	100	ml	A013.2NPL1
				500	ml	A013.2NPL5
Cesium	Cs	in 2-5% HNO ₃	1000 mg/l	100	ml	A014.2NPL1
				500	ml	A014.2NPL5
Copper	Cu	in 2-5% HCl	1000 mg/l	100	ml	A015.2CPL1
				500	ml	A015.2CPL5



* Custom Standards for AAS are available upon request.

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Copper	Cu	in 2-5% HNO ₃	1000 mg/l	100	ml	A015.2NPL1
				500	ml	A015.2NPL5
Dysprosium	Dy	in 2-5% HNO ₃	1000 mg/l	100	ml	A016.2NPL1
				500	ml	A016.2NPL5
Erbium	Er	in 2-5% HNO ₃	1000 mg/l	100	ml	A017.2NPL1
				500	ml	A017.2NPL5
Europium	Eu	in 2-5% HNO ₃	1000 mg/l	100	ml	A018.2NPL1
				500	ml	A018.2NPL5
Iron	Fe	in 2-5% HCl	1000 mg/l	100	ml	A019.2CPL1
				500	ml	A019.2CPL5
Iron	Fe	in 2-5% HNO ₃	1000 mg/l	100	ml	A019.2NPL1
				500	ml	A019.2NPL5
Gallium	Ga	in 2-5% HNO ₃	1000 mg/l	100	ml	A020.2NPL1
				500	ml	A020.2NPL5
Gadolinium	Gd	in 2-5% HNO ₃	1000 mg/l	100	ml	A021.2NPL1
				500	ml	A021.2NPL5
Germanium	Ge	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A022.5N1FPL1
				500	ml	A022.5N1FPL5
Hafnium	Hf	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A023.2N1FPL1
				500	ml	A023.2N1FPL5
Mercury	Hg	in 5-10% HNO ₃	1000 mg/l	100	ml	A024.10NPL1
				500	ml	A024.10NPL5
Holmium	Ho	in 2-5% HNO ₃	1000 mg/l	100	ml	A025.2NPL1
				500	ml	A025.2NPL5
Indium	In	in 2-5% HNO ₃	1000 mg/l	100	ml	A026.2NPL1
				500	ml	A026.2NPL5
Iridium	Ir	in 5-10% HCl	1000 mg/l	100	ml	A027.10CPL1
				500	ml	A027.10CPL5
Potassium	K	in 2-5% HCl	1000 mg/l	100	ml	A028.2CPL1
				500	ml	A028.2CPL5
Potassium	K	in 2-5% HNO ₃	1000 mg/l	100	ml	A028.2NPL1
				500	ml	A028.2NPL5
Lanthanum	La	in 2-5% HCl	1000 mg/l	100	ml	A029.2CPL1
				500	ml	A029.2CPL5
Lanthanum	La	in 2-5% HNO ₃	1000 mg/l	100	ml	A029.2NPL1
				500	ml	A029.2NPL5
Lithium	Li	in 2-5% HNO ₃	1000 mg/l	100	ml	A030.2NPL1
				500	ml	A030.2NPL5
Magnesium	Mg	in 2-5% HCl	1000 mg/l	100	ml	A032.2CPL1
				500	ml	A032.2CPL5
Magnesium	Mg	in 2-5% HNO ₃	1000 mg/l	100	ml	A032.2NPL1
				500	ml	A032.2NPL5
Manganese	Mn	in 2-5% HCl	1000 mg/l	100	ml	A033.2CPL1
				500	ml	A033.2CPL5
Manganese	Mn	in 2-5% HNO ₃	1000 mg/l	100	ml	A033.2NPL1
				500	ml	A033.2NPL5
Molybdenum	Mo	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A034.1N1FPL1
				500	ml	A034.1N1FPL5
Molybdenum	Mo	in H ₂ O	1000 mg/l	100	ml	A034.W.L1
				500	ml	A034.W.L5

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Sodium	Na	in 1% HCl	1000 mg/l	100	ml	A035.1CPL1
				500	ml	A035.1CPL5
Sodium	Na	in 2-5% HNO ₃	1000 mg/l	100	ml	A035.2NPL1
				500	ml	A035.2NPL5
Sodium	Na	in H ₂ O	1000 mg/l	100	ml	A035.WL1
				500	ml	A035.WL5
Niobium	Nb	in 2-5 %HNO ₃ / tr.HF	1000 mg/l	100	ml	A036.5N1FPL1
				500	ml	A036.5N1FPL5
Neodymium	Nd	in 2-5% HNO ₃	1000 mg/l	100	ml	A037.2NPL1
				500	ml	A037.2NPL5
Nickel	Ni	in 2-5% HNO ₃	1000 mg/l	100	ml	A038.2NPL1
				500	ml	A038.2NPL5
Phosphorus	P	in H ₂ O	1000 mg/l	100	ml	A040.WL1
				500	ml	A040.WL5
Lead	Pb	in 2-5% HNO ₃	1000 mg/l	100	ml	A041.2NPL1
				500	ml	A041.2NPL5
Palladium	Pd	in 2-5% HCl	1000 mg/l	100	ml	A042.5CPL1
				500	ml	A042.5CPL5
Palladium	Pd	in 2-5% HNO ₃	1000 mg/l	100	ml	A042.5NPL1
				500	ml	A042.5NPL5
Platinum	Pt	in 5-10% HCl	1000 mg/l	100	ml	A044.10CPL1
				500	ml	A044.10CPL5
Rubidium	Rb	in 2-5% HNO ₃	1000 mg/l	100	ml	A045.2NPL1
				500	ml	A045.2NPL5
Rhenium	Re	in 2-5% HNO ₃	1000 mg/l	100	ml	A046.5NPL1
				500	ml	A046.5NPL5
Rhodium	Rh	in 2-5% HCl	1000 mg/l	100	ml	A047.5CPL1
				500	ml	A047.5CPL5
Ruthenium	Ru	in 2-5% HCl	1000 mg/l	100	ml	A048.5CPL1
				500	ml	A048.5CPL5
Sulphur	S	in H ₂ O	1000 mg/l	100	ml	A049.WL1
				500	ml	A049.WL5
Antimony	Sb	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A050.5N1FPL1
				500	ml	A050.5N1FPL5
Antimony	Sb	in 10-20% HCl	1000 mg/l	100	ml	A050.20CPL1
				500	ml	A050.20CPL5
Scandium	Sc	in 2-5% HNO ₃	1000 mg/l	100	ml	A051.2NPL1
				500	ml	A051.2NPL5
Selenium	Se	in 2-5% HNO ₃	1000 mg/l	100	ml	A052.2NPL1
				500	ml	A052.2NPL5
Silicon	Si	in H ₂ O	1000 mg/l	100	ml	A053.WL1
				500	ml	A053.WL5
Samarium	Sm	in 2-5% HNO ₃	1000 mg/l	100	ml	A054.2NPL1
				500	ml	A054.2NPL5
Tin	Sn	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A055.1N1FPL1
				500	ml	A055.1N1FPL5
Tin	Sn	in 10-20% HCl	1000 mg/l	100	ml	A055.20CPL1
				500	ml	A055.20CPL5
Strontium	Sr	in 2-5% HCl	1000 mg/l	100	ml	A056.2CPL1
				500	ml	A056.2CPL5



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TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Strontium	Sr	in 2-5% HNO ₃	1000 mg/l	100	ml	A056.2NPL1
				500	ml	A056.2NPL5
Tantalum	Ta	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A057.5N1FPL1
				500	ml	A057.5N1FPL5
Tellurium	Te	in 5-10% HNO ₃	1000 mg/l	100	ml	A059.10NPL1
				500	ml	A059.10NPL5
Tellurium	Te	in 10-20% HCl	1000 mg/l	100	ml	A059.20CPL1
				500	ml	A059.20CPL5
Titanium	Ti	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A061.5N05FPL1
				500	ml	A061.5N05FPL5
Thallium	Tl	in 2-5% HNO ₃	1000 mg/l	100	ml	A062.2NPL1
				500	ml	A062.2NPL5
Thulium	Tm	in 2-5% HNO ₃	1000 mg/l	100	ml	A063.2NPL1
				500	ml	A063.2NPL5
Vanadium	V	in 2-5% H ₂ SO ₄	1000 mg/l	100	ml	A065.2SPL1
				500	ml	A065.2SPL5
Vanadium	V	in 2-5% HNO ₃	1000 mg/l	100	ml	A065.2NPL1
				500	ml	A065.2NPL5
Tungsten	W	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A066.1N2FPL1
				500	ml	A066.1N2FPL5
Yttrium	Y	in 2-5% HNO ₃	1000 mg/l	100	ml	A067.2NPL1
				500	ml	A067.2NPL5
Ytterbium	Yb	in 2-5% HNO ₃	1000 mg/l	100	ml	A068.2NPL1
				500	ml	A068.2NPL5
Zinc	Zn	in 2-5% HCl	1000 mg/l	100	ml	A069.2CPL1
				500	ml	A069.2CPL5
Zinc	Zn	in 2-5% HNO ₃	1000 mg/l	100	ml	A069.2NPL1
				500	ml	A069.2NPL5
Zirconium	Zr	in 2-5% HNO ₃ / tr.HF	1000 mg/l	100	ml	A070.2N05FPL1
				500	ml	A070.5C05FPL5
Zirconium	Zr	in 2-5% HCl/tr.HF	1000 mg/l	100	ml	A070.5C05FPL1
				500	ml	A070.2N05FPL5

10 000 mg/l for AAS Flame

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Aluminium	Al	in 2-5% HCl	10 000 mg/l	20	ml	S102.5CPL02
Aluminium	Al	in 2-5% HNO ₃	10 000 mg/l	20	ml	S102.5NPL02
Antimony	Sb	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S150.5N2FPL02
Arsenic	As	in 2-5% HNO ₃	10 000 mg/l	20	ml	S103.5NPL02
Barium	Ba	in 2-5% HNO ₃	10 000 mg/l	20	ml	S106.5NPL02
Beryllium	Be	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S107.5N1FPL02
Bismuth	Bi	in 5-10% HNO ₃	10 000 mg/l	20	ml	S108.10NPL02
Boron	B	H ₂ O	10 000 mg/l	20	ml	S105.W.L02
Cadmium	Cd	in 2-5% HNO ₃	10 000 mg/l	20	ml	S110.5NPL02
Calcium	Ca	in 2-5% HNO ₃	10 000 mg/l	20	ml	S109.5NPL02
Cesium	Cs	in 2-5% HNO ₃	10 000 mg/l	20	ml	S114.2NPL02
Chromium	Cr	in 2-5% HNO ₃	10 000 mg/l	20	ml	S113.5NPL02
Cobalt	Co	in 2-5% HNO ₃	10 000 mg/l	20	ml	S112.5NPL02

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Copper	Cu	in 2-5% HNO ₃	10 000 mg/l	20	ml	S115.5NPL02
Iron	Fe	in 2-5% HNO ₃	10 000 mg/l	20	ml	S119.5NPL02
Lead	Pb	in 2-5% HNO ₃	10 000 mg/l	20	ml	S141.5NPL02
Lithium	Li	in 2-5% HNO ₃	10 000 mg/l	20	ml	S130.2NPL02
Magnesium	Mg	in 2-5% HNO ₃	10 000 mg/l	20	ml	S132.5NPL02
Manganese	Mn	in 2-5% HNO ₃	10 000 mg/l	20	ml	S133.5NPL02
Molybdenum	Mo	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S134.5N4FPL02
Nickel	Ni	in 2-5% HNO ₃	10 000 mg/l	20	ml	S138.5NPL02
Phosphorus	P	in H ₂ O	10 000 mg/l	20	ml	S140.W.L02
Potassium	K	in 2-5% HNO ₃	10 000 mg/l	20	ml	S128.2NPL02
Rubidium	Rb	in 2-5% HNO ₃	10 000 mg/l	20	ml	S145.2NPL02
Scandium	Sc	in 2-5% HNO ₃	10 000 mg/l	20	ml	S151.5NPL02
Selenium	Se	in 2-5% HNO ₃	10 000 mg/l	20	ml	S152.5NPL02
Silicon	Si	in H ₂ O	10 000 mg/l	20	ml	S153.W.L02
Silver	Ag	in 2-5% HNO ₃	10 000 mg/l	20	ml	S101.5NPL02
Sodium	Na	in 2-5% HNO ₃	10 000 mg/l	20	ml	S135.2NPL02
Strontium	Sr	in 2-5% HNO ₃	10 000 mg/l	20	ml	S156.5NPL02
Tellurium	Te	in 10-20 %HNO ₃	10 000 mg/l	20	ml	S159.20NPL02
Tin	Sn	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S155.5N2FPL02
Titanium	Ti	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S161.5N2FPL02
Thallium	Tl	in 2-5% HNO ₃	10 000 mg/l	20	ml	S162.5NPL02
Tungsten	W	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S166.2N5FPL02
Vanadium	V	in 2-5% HNO ₃	10 000 mg/l	20	ml	S165.5NPL02
Yttrium	Y	in 2-5% HNO ₃	10 000 mg/l	20	ml	S167.5NPL02
Zinc	Zn	in 2-5% HNO ₃	10 000 mg/l	20	ml	S169.5NPL02
Zirconium	Zr	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	20	ml	S170.5N2FPL02

Concentrate for AAS Flame

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Aluminium	Al	in 2-5% HNO ₃	10 000 mg/l	100	ml	A102.5NPL1
Antimony	Sb	in 5-10% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A150.10N2FPL1
Antimony	Sb	in 10-20% HCl	10 000 mg/l	100	ml	A150.20CPL1
Arsenic	As	in 2-5% HCl	10 000 mg/l	100	ml	A103.5CPL1
Arsenic	As	in 2-5% HNO ₃	10 000 mg/l	100	ml	A103.5NPL1
Barium	Ba	in 2-5% HCl	10 000 mg/l	100	ml	A106.5CPL1
Beryllium	Be	in 2-5% HCl	10 000 mg/l	100	ml	A107.5CPL1
Beryllium	Be	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A107.5N1FPL1
Bismuth	Bi	in 5-10% HNO ₃	10 000 mg/l	100	ml	A108.10NPL1
Boron	B	in H ₂ O	10 000 mg/l	100	ml	A105.2APL1
Cadmium	Cd	in 2-5% HCl	10 000 mg/l	100	ml	A110.5CPL1
Cadmium	Cd	in 2-5% HNO ₃	10 000 mg/l	100	ml	A110.5NPL1
Calcium	Ca	in 2-5% HCl	10 000 mg/l	100	ml	A109.5CPL1
Calcium	Ca	in 2-5% HNO ₃	10 000 mg/l	100	ml	A109.5NPL1
Cesium	Cs	in 2-5% HNO ₃	10 000 mg/l	100	ml	A114.2NPL1
Chromium	Cr	in 2-5% HCl	10 000 mg/l	100	ml	A113.5CPL1
Chromium	Cr	in 2-5% HNO ₃	10 000 mg/l	100	ml	A113.5NPL1



* Custom Standards for AAS are available upon request.

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Cobalt	Co	in 2-5% HCl	10 000 mg/l	100	ml	A112.5CPL1
Cobalt	Co	in 2-5% HNO ₃	10 000 mg/l	100	ml	A112.5NPL1
Copper	Cu	in 2-5% HNO ₃	10 000 mg/l	100	ml	A115.5NPL1
Germanium	Ge	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A122.5N1FPL1
Iron	Fe	in 2-5% HCl	10 000 mg/l	100	ml	A119.5CPL1
Iron	Fe	in 2-5% HNO ₃	10 000 mg/l	100	ml	A119.5NPL1
Lead	Pb	in 2-5% HNO ₃	10 000 mg/l	100	ml	A141.5NPL1
Lithium	Li	in 2-5% HNO ₃	10 000 mg/l	100	ml	A130.2NPL1
Lithium	Li	in 2-5% HCl	10 000 mg/l	100	ml	A130.2CPL1
Magnesium	Mg	in 2-5% HCl	10 000 mg/l	100	ml	A132.5CPL1
Magnesium	Mg	in 2-5% HNO ₃	10 000 mg/l	100	ml	A132.5NPL1
Manganese	Mn	in 2-5% HNO ₃	10 000 mg/l	100	ml	A133.5NPL1
Mercury	Hg	in 5-10% HNO ₃	10 000 mg/l	100	ml	A124.10NPL1
Molybdenum	Mo	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A134.5N4FPL1
Nickel	Ni	in 2-5% HNO ₃	10 000 mg/l	100	ml	A138.5NPL1
Phosphorus	P	in H ₂ O	10 000 mg/l	100	ml	A140.WL1
Potassium	K	in 2-5% HCl	10 000 mg/l	100	ml	A128.2CPL1
Potassium	K	in 2-5% HNO ₃	10 000 mg/l	100	ml	A128.2NPL1
Rubidium	Rb	in 2-5% HNO ₃	10 000 mg/l	100	ml	A145.2NPL1
Scandium	Sc	in 2-5% HNO ₃	10 000 mg/l	100	ml	A151.5NPL1
Selenium	Se	in 2-5% HNO ₃	10 000 mg/l	100	ml	A152.5NPL1
Silicon	Si	in H ₂ O	10 000 mg/l	100	ml	A153.WL1
Silver	Ag	in 10-20% HNO ₃	10 000 mg/l	100	ml	A101.20NPL1
Sodium	Na	in 2-5% HCl	10 000 mg/l	100	ml	A135.2CPL1
Sodium	Na	in 2-5% HNO ₃	10 000 mg/l	100	ml	A135.2NPL1
Strontium	Sr	in 2-5% HCl	10 000 mg/l	100	ml	A156.2CPL1
Strontium	Sr	in 2-5% HNO ₃	10 000 mg/l	100	ml	A156.5NPL1
Tellurium	Te	in 10-20% HCl	10 000 mg/l	100	ml	A159.20CPL1
Tellurium	Te	in 10-20% HNO ₃	10 000 mg/l	100	ml	A159.20NPL1
Tin	Sn	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A155.2N2FPL1
Tin	Sn	in 2-5% HCl	10 000 mg/l	100	ml	A155.5CPL1
Titanium	Ti	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A161.5N2FPL1
Thallium	Tl	in 2-5% HNO ₃	10 000 mg/l	100	ml	A162.5NPL1
Tungsten	W	in 2-5% HNO ₃ / tr.HF	10 000 mg/l	100	ml	A166.2N5FPL1
Vanadium	V	in 2-5% HNO ₃	10 000 mg/l	100	ml	A165.5NPL1
Yttrium	Y	in 2-5% HNO ₃	10 000 mg/l	100	ml	A167.5NPL1
Zinc	Zn	in 2-5% HNO ₃	10 000 mg/l	100	ml	A169.5NPL1
Zinc	Zn	in 2-5% HNO ₃	10 000 mg/l	100	ml	A169.5CPL1
Zirconium	Zr	in 2-5% HCl/ tr.HF	10 000 mg/l	100	ml	A170.5C2FPL1

Single-Element Standard in Alcohol

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Calcium	Ca	in 2% HCl /12%C ₂ H ₅ OH	1000 mg/l	100	ml	A009.2C12EL.L1
				500	ml	A009.2C12EL.L5
Copper	Cu	in 2% HCl /12%C ₂ H ₅ OH	1000 mg/l	100	ml	A015.2C12EL.L1
				500	ml	A015.2C12EL.L5

Iron	Fe	in 2% HCl /12%C ₂ H ₅ OH	1000 mg/l	100	ml	A019.2C12EL.L1
				500	ml	A019.2C12EL.L5
Potassium	K	in 2% HCl /12%C ₂ H ₅ OH	1000 mg/l	100	ml	A028.2C12EL.L1
				500	ml	A028.2C12EL.L5
Sodium	Na	in 2% HCl /12%C ₂ H ₅ OH	1000 mg/l	100	ml	A035.2C12EL.L1
				500	ml	A035.2C12EL.L5
Zinc	Zn	in 2% HCl /12%C ₂ H ₅ OH	1000 mg/l	100	ml	A069.2C12EL.L1
				500	ml	A069.2C12EL.L5

Single-Element Standards in KCN

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Gold	Au	0.4% KCN	1000 mg/l	100	ml	A965.1K.04.L1
				500	ml	A965.1K.04.L5
Copper	Cu	0.4% KCN	1000 mg/l	100	ml	691C.1K.04.L1
				500	ml	691C.1K.04.L5

Single-Element Standard for Graphite Furnace

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Antimony	Sb	in 1 % HNO ₃	20 ppb	50	ml	F1ED8.D02.1N.L05
Arsenic	As	in 1 % HNO ₃	20 ppb	50	ml	F2165.D02.1N.L05
Cadmium	Cd	in 1 % HNO ₃	0.2 ppb	50	ml	F5519.D002.1N.L05
Lead	Pb	in 1 % HNO ₃	20 ppb	50	ml	1E9C.D02.1N.L05
Manganese	Mn	in 1 % HNO ₃	10 ppb	50	ml	F4C73.D01.1N.L05
Nickel	Ni	in 1 % HNO ₃	30 ppb	50	ml	F3836.D03.1N.L05

Modifiers, Buffers & Reagents

Matrix Modifier for Graphite Furnace

TYPE NAME	ELEMENT	MATRIX	CONCENTRATION	VOLUME	UNIT	REFERENCE
Ammonium Modifier	NH ₄ NO ₃	in H ₂ O	50 g/l	50	ml	MM909D.50K.W.L05
Magnesium Modifier	Mg(NO ₃) ₂	in H ₂ O	10 g/l	50	ml	MM2F6A.10K.W.L05
Magnesium Modifier	Mg(NO ₃) ₂	in H ₂ O	20 g/l	50	ml	MM2F6A.20K.W.L05
Nickel Modifier	Ni(NO ₃) ₂	in 1 %HNO ₃	10 g/l	50	ml	MM9E04.10K.1N.L05
Palladium Modifier	Pd(NO ₃) ₂	in 1 %HNO ₃	2 g/l	50	ml	MM4CF5.2K.1N.L05
Palladium Modifier	Pd(NO ₃) ₂	in 1 %HNO ₃	5 g/l	50	ml	MM4CF5.5K.1N.L05
Magnesium + Palladium Modifier	Mg(NO ₃) ₂ + Pd(NO ₃) ₂	in 1 %HNO ₃	10 g/l + 2 g/l	50	ml	MM2323.10K.1N.L05
Phosphate Modifier	NH ₄ H ₂ PO ₄	in 1 %HNO ₃	100 g/l	50	ml	MMCFE0.100K.1N.L05
Phosphate Modifier	NH ₄ H ₂ PO ₄	in 1 %HNO ₃	20 g/l	50	ml	MMCFE0.20K.1N.L05



* Custom Standards for AAS are available upon request.