

Specpure® Atomic Absorption Standards



These solutions are intended for use with either flame or furnace atomic absorption spectroscopy (AA/GFAA). Atomic Absorption is the most frequently used instrumental technique for elemental analysis. Alfa Aesar offers 70 single-element aqueous solutions at 1000µg/ml in both 100ml and 500ml sizes. Key features of Specpure® Atomic Absorption Standards include:

A NIST-traceable Certificate of Analysis is included with each standard solution.

Expiration date stickers are included with each standard solution.

Guaranteed for one year from date of shipment.

Certified accuracy based upon high performance ICP (HP-ICP-AES) assay method developed by NIST.

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Analytical chemistry



















Accuracy, purity, quality >



	33557	Aluminum, AAS standard solution, Specpure®, Al 1000µg/ml
	47197	Antimony, AAS standard solution, Specpure®, Sb 1000µg/ml
	33559	Arsenic, AAS standard solution, Specpure®, As 1000µg/ml
	88052	Barium, AAS standard solution, Specpure®, Ba 1000µg/ml
	88053	Beryllium, AAS standard solution, Specpure®, Be 1000µg/ml
	88054	Bismuth, AAS standard solution, Specpure®, Bi 1000µg/ml
	88055	Boron, AAS solution standard, Specpure®, B 1000µg/ml
	88056	Cadmium, AAS standard solution, Specpure®, Cd 1000µg/ml
	88057	Calcium, AAS standard solution, Specpure®, Ca 1000µg/ml
	30520	Cerium, AAS standard solution, Specpure®, Ce 1000µg/ml
	88058	Cesium, AAS standard solution, Specpure®, Cs 1000µg/ml
	88059	Chromium, AAS standard solution, Specpure®, Cr 1000µg/ml
	88060	Cobalt, AAS standard solution, Specpure®, Co 1000µg/ml

88061	Copper, AAS standard solution, Specpure®, Cu 1000µg/ml
88062	Dysprosium, AAS standard solution, Specpure®, Dy 1000µg/ml
88063	Erbium, AAS standard solution, Specpure®, Er 1000µg/ml
88064	Europium, AAS standard solution, Specpure®, Eu 1000µg/ml
88065	Gadolinium, AAS standard solution, Specpure®, Gd 1000µg/ml
88066	Gallium, AAS standard solution, Specpure®, Ga 1000µg/ml
88067	Germanium, AAS standard solution, Specpure®, Ge 1000µg/ml
88068	Gold, AAS standard solution, Specpure®, Au 1000µg/ml
88069	Hafnium, AAS standard solution, Specpure®, Hf 1000µg/ml
88070	Holmium, AAS standard solution, Specpure®, Ho 1000µg/ml
88071	Indium, AAS standard solution, Specpure®, In 1000µg/ml
88072	Iridium, AAS standard solution, Specpure®, Ir 1000µg/ml
47282	Iron, AAS standard solution, Specpure®, Fe 1000µg/ml
88074	Lanthanum, AAS standard solution, Specpure®, La 1000µg/ml
88075	Lead, AAS standard solution, Specpure®, Pb 1000µg/ml
88076	Lithium, AAS standard solution, Specpure®, Li 1000µg/ml
89886	Lutetium, AAS standard solution, Specpure®, Lu 1000µg/ml
88077	Magnesium, AAS standard solution, Specpure®, Mg 1000µg/ml

88078	Manganese, AAS standard solution, Specpure®, Mn 1000µg/ml
88079	Mercury, AAS standard solution, Specpure®, Hg 1000µg/ml
35764	Molybdenum, AAS standard solution, Specpure®, Mo 1000µg/ml
88081	Neodymium, AAS standard solution, Specpure®, Nd 1000µg/ml
88082	Nickel, AAS standard solution, Specpure®, Ni 1000µg/ml
88083	Niobium, AAS standard solution, Specpure®, Nb 1000µg/ml
42239	Osmium, AAS standard solution, Specpure®, Os 1000µg/ml
88085	Palladium, AAS standard solution, Specpure®, Pd 1000µg/ml
89887	Phosphorus, AAS standard solution, Specpure®, P 1000µg/ml
88086	Platinum, AAS standard solution, Specpure®, Pt 1000µg/ml
88087	Potassium, AAS standard solution, Specpure®, K 1000µg/ml
88088	Praseodymium, AAS standard solution, Specpure®, Pr 1000µg/ml
88089	Rhenium, AAS standard solution, Specpure®, Re 1000µg/ml
88090	Rhodium, AAS standard solution, Specpure®, Rh 1000µg/ml
88091	Rubidium, AAS standard solution, Specpure®, Rb 1000µg/ml
89117	Ruthenium, AAS standard solution, Specpure®, Ru 1000µg/ml
88092	Samarium, AAS standard solution, Specpure®, Sm 1000µg/ml
88093	Scandium, AAS standard solution, Specpure®, Sc 1000µg/ml

	47277	Silicon, AAS standard solution, Specpure®, Si 1000µg/ml
	88096	Silver, AAS standard solution, Specpure®, Ag 1000µg/ml
	88097	Sodium, AAS standard solution, Specpure®, Na 1000µg/ml
	88098	Strontium, AAS standard solution, Specpure®, Sr 1000µg/ml
	22958	Sulfur, AAS standard solution, Specpure®, S 1000µg/ml
	89888	Tantalum, AAS standard solution, Specpure®, Ta 1000µg/ml
	47130	Tellurium, AAS standard solution, Specpure®, Te 1000µg/ml
	88110	Terbium, AAS standard solution, Specpure®, Tb 1000µg/ml
	88111	Thallium, AAS standard solution, Specpure®, Tl 1000µg/ml
	89889	Thulium, AAS standard solution, Specpure®, Tm 1000µg/ml
	88112	Tin, AAS standard solution, Specpure®, Sn 1000µg/ml
	35771	Titanium, AAS standard solution, Specpure®, Ti 1000µg/ml
	35760	Tungsten, AAS standard solution, Specpure®, W 1000µg/ml
	88116	Vanadium, AAS standard solution, Specpure®, V 1000µg/ml /
	89890	Ytterbium, AAS standard solution, Specpure®, Yb 1000µg/ml
	88117	Yttrium, AAS standard solution, Specpure®, Y 1000µg/ml
	88118	Zinc, AAS standard solution, Specpure®, Zn 1000µg/ml
	88119	Zirconium, AAS standard solution, Specpure®, Zr 1000µg/ml

Specpure® Ionization Buffers



Atoms of elements with very low ionization potentials can be ionized at flame temperatures, thereby reducing the population of free atoms. By providing an excess of electrons, ionization buffers act to suppress this mechanism, yielding a greater population of free atoms for measurement.

Specpure®

45294 Cesium nitrate, Ionization Buffer Solution, Specpure®


Specpure®

45293 Lithium nitrate, Ionization Buffer Solution, Specpure®

Specpure® Matrix Modifiers



Matrix modifiers are designed for use with graphite furnace atomic absorption (GFAA). A matrix modifier is added to a sample to prevent undesired elemental losses during pyrolysis, by converting the element to a less volatile form.

	42663	Ammonium dihydrogen phosphate, Matrix Modifier Solution, Specpure®
	39044	Magnesium nitrate, Matrix Modifier Solution, Specpure®
	39043	Nickel nitrate, Matrix Modifier Solution, Specpure®
	45290	Palladium nitrate & Magnesium nitrate, Matrix Modifier Solution, Specpure®
	45291	Palladium nitrate & Magnesium nitrate, Matrix Modifier Solution, Specpure®
	44241	Palladium nitrate, Matrix Modifier Solution, Specpure®
	44765	Palladium nitrate, Matrix Modifier Solution, Specpure®

Specpure® Releasing Agents



Releasing agents function to minimize chemical interferences by preferentially combining with the interfering anion. This action promotes the release of the analyte atoms.

39036

39036 Lanthanum chloride, Releasing Agent Solution, Specpure®

39035

39035 Lanthanum nitrate, Releasing Agent Solution, Specpure®

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