

ACME

Analytical Solutions Inc.

Standardized Testing Solutions
Custom Formulations & Chemical Repackaging

Catalog 2007

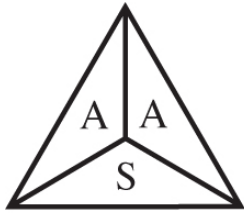
Edition Two

1817 Addison Way, Hayward, CA 94544

(510) 783 – 1555

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www.acmeanalyticalsolutions.com



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Introduction

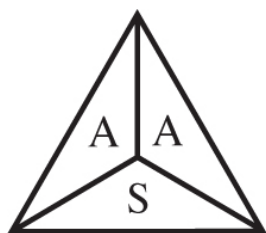
ACME Analytical Solutions has 50 years experience in manufacturing volumetric, single element atomic absorption, conductivity, anionic, cationic and reference buffer standards certified traceable to National Institute of Standards and Technology Standard Reference Materials, and other custom solutions for various industrial, municipal and national laboratories. Over the years, these laboratories have depended on the ACME team because of our technical service, advanced analytical capabilities, and our ability to deliver quality products on time at a very competitive price. Whether you are measuring pH, or conducting basic research, our goal is to become your preferred and trusted supplier.

We know that your laboratory results are dependent on the quality of the reagents and solutions you use in your analyses and that's why our focus on quality is unsurpassed in the industry. ACME uses only quality raw materials and complies with all applicable ISO Standards and current Good Laboratory Practices (cGLP) to make every product we offer. Material Safety Data Sheets (MSDS) and Certificates of Analysis (COA) are included with every order shipped.

Call us with your reagent chemicals and solution needs, including product specifications and any custom formulations including surfactanated etchants and electroplating baths used in metal finishing, printed circuit board and semiconductor manufacturing. You will never find electronic answering machines at ACME Analytical Solutions where service is not just our goal – it's our cornerstone. Whether it is a special research project or routine measurement and testing procedures conducted throughout the year, ACME Analytical Solutions is ready to help with your chemical solutions needs.

Thank you for choosing ACME Analytical Solutions, Inc.

**Ravinder Sahota
President/Owner**



ACME Analytical Solutions Inc.

CONCENTRATIONS OF COMMON ACIDS AND BASES

ACIDS	Mol. Wt.	Molarity	G / L	% by wt.	Sp. Gr.
Acetic Acid	60.05	17.4	1045	99.7	1.05
Formic Acid	46.02	23.5	1080	90	1.20
Hydrochloric Acid	36.46	12	438.5	37	1.185
Hydrofluoric Acid	20.01	28.9	577.5	50	1.155
Hydrofluosilicic Acid	144.08	2.64	381	30	1.27
Lactic Acid	90.10	11.3	1020	85	1.20
Nitric Acid	63.02	16	1008	71	1.42
Perchloric Acid	100.46	11.6	1169	70	1.67
Phosphoric Acid, ortho	98.00	14.7	1445	85	1.70
Sulfuric Acid	98.08	18	1766	96	1.84
Sulfurous Acid	82.08	0.75	61.2	6	1.02

BASES	Mol. Wt.	Molarity	G / L	% by wt.	Sp. Gr.
Ammonia Aqueous	17.00	14.8	251.4	28 (NH ₃)	0.898
Potassium Hydroxide	56.11	13.5	760	50	1.52
Sodium Hydroxide	40.00	19.1	765	50	1.53

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Description	Catalog	Size	Price
Ψ Acetate Buffer Solution, pH 4.0	AB2005	500 mL	\$14.90
For Residual Chlorine, American Public Health Association (APHA) 4500-Cl C.	AB2005	1 L	\$15.85
Iodometric Method II	AB2005	3.8 L	\$19.75
Meets American Society for Testing and Materials (ASTM) D-1427 specifications).	AB2005	4 x 3.8 L	\$71.25
Chemical Abstract Service Registry Number (CAS)	AB2005	10 L	\$43.50
	AB2005	20 L	\$83.50
Ψ Acetate Buffer Solution, pH 4.2	AB2042	500 mL	\$14.90
Acetic Acid - Acetate Anion Buffer	AB2042	1 L	\$15.85
contains Acetic Acid, Glacial and Sodium Acetate, Trihydrate in de-ionized water.	AB2042	3.8 L	\$19.75
	AB2042	4 x 3.8 L	\$71.25
	AB2042	10 L	\$43.50
	AB2042	20 L	\$83.50
Ψ Acetic Acid, Glacial, A.C.S.	AA9010	500 mL	\$13.50
CH ₃ COOH F.W. 60.05 d 1.053 g/mL CAS 64-19-7 Assay: 99.7% min.	AA9010	1 L	\$17.55
Molarity 17.4 M, [Vinegar Acid]	AA9010	2.5 L	\$31.90
Hygroscopic	AA9010	3.8 L	\$37.00
	AA9010	4 x 3.8 L	\$101.40
Ψ Acetic Acid, Glacial, Technical Grade	AA9410	500 mL	\$12.10
CH ₃ COOH F.W. 60.05 d 1.053 g/mL CAS 64-19-7 Assay: 99.0% min.	AA9410	2.5 L	\$22.90
Molarity 17.4 M, [Vinegar Acid]	AA9410	3.8 L	\$27.85
Hygroscopic	AA9410	4 x 3.8 L	\$78.95
	AA9410	10 L	\$51.20
	AA9410	20 L	\$98.25
Acetic Acid, 5% (w/v) Aqueous Solution	AA6535	1 L	\$13.55
0.8326 Molar	AA6535	3.8 L	\$31.10
	AA6535	4 x 3.8 L	\$71.55
Acetic Acid, 10% (w/w) Aqueous Solution	AA6210	1 L	\$16.00
1.685 M d 1.0121 g/mL 1.850 molal (moles of solute per kg of water)	AA6210	3.8 L	\$35.45
	AA6210	4 x 3.8 L	\$81.55
Acetic Acid, 46% (v/v) Technical	AA9480	3.8 L	\$20.00
Aqueous Solution prepared from 460 mL of glacial diluted to 1 Liter	AA9480	4 x 3.8 L	\$58.00
Acetic Acid Standard	AA7500	100 mL	\$15.00
100 mg/L (100 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7510	100 mL	\$15.00
250 mg/L (250 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7520	100 mL	\$15.00
300 mg/L (300 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7530	100 mL	\$15.00
500 mg/L (500 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7540	100 mL	\$15.00
750 mg/L (750 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7550	100 mL	\$15.00
800 mg/L (800 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7560	100 mL	\$15.00
1000 mg/L (1000 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7570	100 mL	\$15.00
1200 mg/L (1200 ppm) in 10% v/v Ethanol			
Acetic Acid Standard	AA7580	100 mL	\$15.00
2500 mg/L (2500 ppm) in 10% v/v Ethanol			
Ψ Acetone, A.C.S.	AC9020	500 mL	\$16.12
CH ₃ COCH ₃ F.W. 58.08 d 0.788 CAS 67-64-1 Assay: 99.5% min.	AC9020	1 L	\$20.44
[2-Propanone; Dimethyl Ketone]	AC9020	3.8 L	\$31.00
Flammable, DEA list 2 chemical.	AC9020	4 x 3.8 L	\$92.50

Ψ Acetone, Technical Grade	AC9420	500 mL	\$13.95
CH ₃ COCH ₃ F.W. 58.08 d 0.788 g/mL CAS 67-64-1	AC9420	3.8 L	\$19.50
[2-Propanone; Dimethyl Ketone]	AC9420	4 x 3.8 L	\$58.50
Flammable, DEA list 2 chemical.	AC9420	20 L	\$73.75
Acetone, 10% (v/v) Aqueous	AO6258	3.8 L	\$14.75
Acetone, Semiconductor (Class 10) dissolved in de-ionized Water.	AO6258	4 x 3.8 L	\$44.25
Ψ Alcohol, Denatured, Reagent, A.C.S.	AD9100	1 L	\$38.00
CH ₃ CH ₂ OH F.W. 46.07 d 0.785 CAS 64-17-5 Assay: Methanol and Ethanol 94.0 - 96.0% v/v	AD9100	3.8 L	\$91.90
Contains SDA 3A and about 5% Isopropyl Alcohol Isopropanol 4.0 - 6.0% v/v	AD9100	4 x 3.8 L	\$300.00
Ψ - Hazardous material shipping charges apply to products marked with Ψ.			
Ψ Aluminum Atomic Absorption Standard, 1000 ppm	AL7700	100 mL	\$13.80
Aluminum in 2% Nitric Acid; Verified National Institute of Standards and Technology (NIST)	AL7700	500 mL	\$37.50
Standard Reference Material (SRM), 3101.			
Aluminum Chloride, Hexahydrate, Reagent	AC9547	100 g	\$23.80
AlCl ₃ ·6H ₂ O F.W. 241.43 CAS 7784-13-6	AC9547	500 g	\$71.40
Ammonium Acetate, Crystal, A.C.S.	AA9599	500g	\$21.50
NH ₄ C ₂ H ₃ O ₂ F.W. 77.08 CAS 631-61-8 Assay: 97% min.	AA9599	2.5 Kg	\$68.50
Ammonium Chloride, A.C.S.	AC9500	500g	\$16.50
NH ₄ Cl F.W. 53.49 CAS 12125-02-9 Assay: 99.5% min. [Sal Ammoniac]	AC9500	2.5Kg	\$51.75
Ammonium Chloride, Technical	AC9487	500 g	\$14.00
NH ₄ Cl F.W. 53.49 CAS 12125-02-9 Assay: 99.5% min. Untreated (No anticaking agent)	AC9487	2.5 kg	\$43.90
Ψ Ammonium Chloride Buffer, pH 9.5	AC2150	1 L	\$16.50
Ammonium Chloride-Ammonium Hydroxide	AC2150	3.8 L	\$30.50
Ψ Ammonium Chloride Buffer, pH 10	AC2160	1 L	\$17.50
Ammonium Chloride -Ammonium Hydroxide	AC2160	3.8 L	\$32.50
	AC2160	4 x 3.8 L	\$74.75
Ammonium Thiocyanate, 0.01 N Aqueous	AT1011	1 L	\$18.45
0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)	AT1011	3.8 L	\$36.00
Ammonium Thiocyanate, 0.1 N Aqueous	AT1012	1 L	\$18.45
	AT1012	3.8 L	\$36.00
Ammonium Hydroxide, 3% Solution	AH6010	500 mL	\$15.38
Ammonia in de-ionized water.	AH6010	1 L	\$19.95
Ammonium Hydroxide, 50% (v/v) Aqueous	AH6827	1 L	\$13.00
Prepared from A.C.S. starting material. One volume Aqueous Ammonia to an equal volume of water.	AH6827	3.8 L	\$30.00
Ψ Ammonium Hydroxide, A.C.S.	AH9030	500 mL	\$15.11
NH ₄ OH F.W. 35.05 d 0.900 CAS 1336-21-6 Assay: 28.0 - 30.0% as NH ₃	AH9030	2.5 L	\$25.80
[Aqueous Ammonia; Strong Ammonia Solution]	AH9030	3.8 L	\$28.82
Corrosive	AH9030	4 x 3.8 L	\$85.18
Ψ Ammonium Persulfate, Crystal, A.C.S.	AP9502	500g	\$19.35
(NH ₄) ₂ S ₂ O ₈ F.W. 228.19 CAS 7727-54-0 Assay: 98.0% min.	AP9502	2.5Kg	\$39.35
[Ammonium Peroxydisulfate] Moisture Sensitive. Oxidizer.	AP9502	5 kg	\$59.00
	AP9502	12 kg	\$137.75
Ammonium Sulfate A.C.S.	AS9600	500g	\$16.50
(NH ₄) ₂ SO ₄ F.W. 132.14 CAS 7783-20-2 Assay: 99.0% min.	AS9600	2.5Kg	\$37.00
Anti-Foam B	AF6230	60 mL	\$10.00
10% Emulsion of Anti-Foam A (100% mixture of Polydimethylsiloxanes of various molecular weights) in distilled water.			
Antimony Atomic Absorption Standard, 1000 ppm	SB7710	100 mL	\$13.80
Antimony Potassium Tartrate in de-ionized Water; Verified NIST SRM 3102	SB7710	500 mL	\$37.50

Ascorbic Acid, Powder, USP	AA9503	500g	\$36.35
C6H8O6 F.W. 176.13 CAS 50-81-7 Assay: 99.0 - 100.5% [Vitamin C; L-Ascorbic Acid]	AA9503	2.5 kg	\$138.00
Ψ Barium Atomic Absorption Standard, 1000 ppm	BA7720	100 mL	\$13.80
Barium Carbonate in 2% Nitric Acid; Verified NIST SRM 3104	BA7720	500 mL	\$37.50
Ψ Barium Chloride, Dihydrate, A.C.S.	BC9610	500g	\$25.50
BaCl2·2H2O F.W. 244.26 CAS 10326-27-9 Assay: 99.0%	BC9610	2.5Kg	\$91.00
Barium Chloride Solution, 10% (w/v)	BC6030	1 L	\$21.00
For Sulfate, APHA 4500-SO4 C. Gravimetric Method	BC6030	3.8 L	\$36.00
Barium Diphenylamine Sulfonate, 0.1% (w/v)	BD4380	100 mL	\$10.41
Aqueous Solution (APHA for Chlorine)	BD4380	500 mL	\$23.06
Redox Indicator for Iron (II) Titrations; Electrochemical Transition Potential of + 0.83 V from Green - Violet.	BD4380	1 L	\$34.92
Barium Hydroxide, Saturated, Aqueous Solution	BH6831	1 L	\$17.55
pH = 12.9	BH6831	3.8 L	\$40.35
Basic Fuchsin, 0.2% (w/v) Aqueous	BF4121	100 mL	\$17.10
pH 1.2 (purple) to pH 3.0 (red) [C.I. 42500; Basic Red 9]	BF4121	500 mL	\$25.65
Borate Buffer Solution pH 9.5	BB2020	1 L	\$38.50
Sodium Borate and Sodium Hydroxide solution For Nitrogen (Ammonia) APHA 4500-NH3			
Boric Acid, Crystal, A.C.S.	BA9504	500g	\$21.75
H3BO3 F.W. 61.83 CAS 10043-35-3 Assay: 99.5% min. [orthoboric; Boracic Acid]	BA9504	2.5Kg	\$85.50
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Boric Acid, Technical Grade	BA9440	500g	\$14.50
H3BO3 F.W. 61.83 CAS 10043-35-3	BA9440	2.5Kg	\$53.80
Boric Acid Solution, 45 g/L	BA6921	1 L	\$13.35
For increasing concentration of boric acid in plating baths quickly; Boric Acid dissolves slowly at room temperature.	BA6921	3.8 L	\$25.00
Boric Acid Solution, 2% (w/v) Indicator solution	BA6040	500ml	\$24.50
For Nitrogen (Ammonia), APHA 4500 - NH3 E. Titrimetric Method	BA6040	1 L	\$35.00
Boric Acid Solution, 0.25 Molar	BA6545	1 L	\$17.00
Aqueous Solution containing 15.4575 g of Boric Acid per Liter of solution.	BA6545	3.8 L	\$31.00
Boron Atomic Absorption Standard, 1000 ppm	B7730	100 mL	\$13.80
Boric Acid in water; Verified NIST SRM 3107	B7730	500 mL	\$37.50
Bromocresol Green Sodium Salt, A.C.S.	BG4444	5 g	\$18.15
C21H13Br4O5SSNa F.W. 720.00 CAS 62625-32-5 [3',3'',5',5''-Tetrabromo-m-cresolsulfonphthalein Sodium Salt]	BG4444	10 g	\$27.90
Bromocresol Green Indicator Solution 0.04% (w/v)	BG4010	500 mL	\$14.06
pH 3.8 (Yellow) - pH 5.4 (Blue)	BG4010	1 L	\$16.67
Bromocresol Green Indicator Solution 0.1% (w/v)	BG4020	500 mL	\$14.23
pH 3.8 (Yellow) - pH 5.4 (Blue)	BG4020	1 L	\$16.75
Bromocresol Purple Indicator Solution 0.04% (w/v)	BP4030	500 mL	\$17.33
pH 5.2 (Yellow) - pH 6.8 (Purple)	BP4030	1 L	\$22.82
Bromophenol Blue Sodium Salt, A.C.S.	BP4041	5 g	\$15.00
C19H9Br4O5SSNa F.W. 691.97 CAS 62625-28-9 [3',3'',5',5''-Tetrabromophenolsulfonphthalein Sodium]	BP4041	10 g	\$23.00
Bromophenol Blue Indicator Solution 0.04% (w/v)	BB4040	500 mL	\$14.06
pH 3.0 (Yellow) - pH 4.6 (Blue)	BB4040	1 L	\$16.32
Bromothymol Blue Sodium Salt, A.C.S.	BT4051	5 g	\$15.00
C27H27O5SBr2Na F.W. 646.38 CAS 34722-90-2 [3', 3''-Dibromothymolsulfonphthalein Sodium]	BT4051	10 g	\$23.00

Bromothymol Blue Indicator Solution 0.04% (w/v)	BT4050	500 mL	\$14.38
pH 6.0 (Yellow) - pH 7.6 (Blue)	BT4050	1 L	\$16.94

Buffered Oxide Etchants are silicon dioxide etchants formulated from high purity 49% Hydrofluoric Acid and high purity 40% Ammonium Fluoride. Formulations are available in standard NH4F:HF ratios or made to customer specifications. Formulations are also available with ACME developed surfactants to improve surface wetting and promote etch uniformity.

Ψ Buffered Oxide Etchant, 6:1, Electronic/Cleanroom Grade	BO6546	3.8 L	\$74.00
Combination integral ratio of Ammonium Fluoride, 40% (w/w) and Hydrofluoric Acid, 49% (w/w)	BO6546	4 x 3.8 L	\$236.80
NH4F Assay: 33.6 - 34.6% HF Assay: 7.08 - 7.38%			

Ψ Buffered Oxide Etchant, 15:1, Electronic/Cleanroom Grade	BO6547	3.8 L	\$71.25
NH4F Assay: 36.9 - 37.9% HF Assay: 9.94 - 10.24%	BO6547	4 x 3.8 L	\$228.10

Ψ Buffered Oxide Etchant, 500:1, Electronic/Cleanroom Grade	BO6548	3.8 L	\$71.25
	BO6548	4 x 3.8 L	\$228.10

Buffer Standard, pH 2.00 Colorless	BS2202	500 mL	\$14.00
Potassium Chloride and Hydrochloric Acid	BS2202	1 L	\$18.50

Buffer Standard, pH 3.00 Color-coded Purple	BS2300	1 L	\$18.50
Potassium Biphthalate - based for Winery Lab use	BS2300	3.8 L	\$42.55

Buffer Standard, pH 4.01 Color-coded Red	BR2030	500 mL	\$8.10
Potassium Hydrogen Phthalate, pH 4.01 ± 0.01 @ 25 C	BR2030	1 L	\$12.00
NIST Traceable Buffer.	BR2030	3.8 L	\$21.50
pH vs Temperature on label.	BR2030	4 x 3.8 L	\$48.50
	BR2030	20 L	\$58.40

Buffer Standard, 4.75 Color-coded Orange	BO2475	1 L	\$18.50
Phthalate-based adjusted with Sodium Hydroxide Solution	BO2475	3.8 L	\$42.55

Buffer Standard, pH 6.86 @ 25 C Colorless	BC2040	500 mL	\$14.00
Potassium Phosphate, Monobasic and Sodium Phosphate, Dibasic	BC2040	1 L	\$18.50
NIST Traceable Buffer.	BC2040	3.8 L	\$42.55

Buffer Standard, pH, 7.00 @ 25 C Color-coded Yellow	BY2050	500 mL	\$8.10
Potassium Phosphate, Monobasic - Sodium Hydroxide	BY2050	1 L	\$11.80
pH vs Temperature on label.	BY2050	3.8 L	\$21.50
	BY2050	4 x 3.8 L	\$48.50
	BY2050	20L	\$58.40

Buffer Standard, pH 8.0 @ 25 C Colorless	BC2060	500 mL	\$14.00
Potassium Phosphate, Monobasic - Sodium Hydroxide	BC2060	1L	\$18.50

Buffer Standard, pH 9.18 @ 25 C Colorless	BU2065	500 mL	\$14.00
Sodium Borate Solution, NIST Traceable Buffer	BU2065	1 L	\$18.50
	BU2065	3.8 L	\$42.55

Buffer Standard, pH 10.00 @ 25 C Color-coded Blue	BB2070	500 mL	\$8.10
Sodium Borate - Sodium Hydroxide	BB2070	1 L	\$11.80
pH vs Temperature on label.	BB2070	3.8 L	\$21.50
	BB2070	4 x 3.8 L	\$48.50
	BB2070	20 L	\$58.40

Buffer Standard, pH 12.45 @ 25 C Colorless	BC2080	1 L	\$23.00
Calcium Hydroxide, Saturated Solution	BC2080	3.8 L	\$57.50

Ψ Butanol, Reagent	BA9120	500 mL	\$34.50
C4H9OH F.W. 74.12 CAS 71-36-3 Assay: 99.9% min.	BA9120	1 L	\$43.00
[1-Butanol; n-Butyl Alcohol] Flammable!			

Ψ Cadmium Atomic Absorption Standard, 1000 ppm	CD7740	100 mL	\$13.80
Cadmium Acetate in 2% Nitric Acid; Verified NIST SRM 3108	CD7740	500 mL	\$37.50

Ψ Calcium Atomic Absorption Standard, 1000 ppm	CA7750	100 mL	\$13.80
Calcium Carbonate in dilute Hydrochloric Acid; NIST SRM 3109	CA7750	500 mL	\$37.50

Calcium Carbonate, Powder, A.C.S.	CC9620	500g	\$25.50
CaCO ₃ F.W. 100.09 CAS 471-34-1 Hygroscopic	CC9620	2.5Kg	\$76.50
Calcium Carbonate, Powder, USP	CC9505	500g	\$18.37
CaCO ₃ F.W. 100.09 CAS 471-34-1 Hygroscopic	CC9505	2.5Kg	\$54.75
Calcium Chloride, 2.75% (w/v) Solution	CC6050	500ml	\$18.42
For Biochemical Oxygen Demand (BOD), APHA 5210 B. 5-Day BOD Test	CC6050	3.8 L	\$54.50
Calcium Chloride, Anhydrous, Technical Grade	CC9401	500g	\$19.62
CaCl ₂ F.W. 110.98 d 2.150 CAS 10043-52-4	CC9401	2.5 Kg	\$45.00
	CC9401	12.5 Kg	\$95.00
Calcium Chloride, Dihydrate, A.C.S.	CC9506	250g	\$20.81
CaCl ₂ ·2H ₂ O F.W. 147.01 CAS 10035-04-8 Assay: 99.0 - 105.0%	CC9506	500g	\$37.32
	CC9506	2.5 Kg	\$70.40
Ψ Ceric Sulfate, 0.1 N Solution	CS1515	1 L	\$21.00
0.1000N ± 0.0005 N (0.0995 - 0.1005 N) in Sulfuric Acid 1 N [Tetrasulfatoceric Acid]	CS1515	3.8 L	\$55.00
	CS1515	4 x 3.8 L	\$126.50
Ψ Cesium Atomic Absorption Standard, 1000 ppm	CS7760	100 mL	\$13.80
Cesium Nitrate in 2% Nitric Acid; Verified NIST SRM 3111	CS7760	500 mL	\$37.50
Ψ Chromatography Solvent for Wine Organic Acids	CS6240	1 L	\$21.85
Winery Lab paper chromatography for Malo-Lactic Fermentation by Kunkee Method. Bromocresol Green Indicator	CS6240	3.8 L	\$54.10
Ψ Chromatography Solvent with Bromophenol Blue (BPB)	CS6245	500 mL	\$84.00
	CS6245	1 L	\$140.00
Ψ Chloroform, A.C.S.	CL9050	500 mL	\$22.00
CHCl ₃ F.W. 119.38 d 1.492 CAS 67-66-3 Assay: 99.8% Min.	CL9050	1 L	\$35.00
[Trichloromethane]; Light Sensitive; Toxic Liquid-Keep Away From Food! Stabilized	CL9050	3.8 L	\$96.00
	CL9050	4 x 3.8 L	\$280.00
Chromium Atomic Absorption Standard, 1000 ppm	CR7770	100 mL	\$13.80
Potassium Dichromate in de-ionized Water; Verified NIST SRM 3112	CR7770	500 mL	\$37.50
Citric Acid, Anhydrous, A.C.S.	CA9630	500g	\$20.85
C ₆ H ₈ O ₇ F.W. 192.13 CAS 77-92-9 Assay: 99.5% Min.	CA9630	2.5Kg	\$68.45
[2-Hydroxy-1,2,3-Propanetricarboxylic Acid]	CA9630	5.0Kg	\$101.50
	CA9630	12 kg	\$239.60
Citric Acid, Anhydrous, Technical	CA9444	500 g	\$17.00
C ₆ H ₈ O ₇ F.W. 192.13 CAS 77-92-9 Assay: 99.5% Min.	CA9444	2.5 kg	\$45.90
[2-Hydroxy-1,2,3-Propanetricarboxylic Acid]	CA9444	12 kg	\$160.65
Ψ Cobalt Atomic Absorption Standard, 1000 ppm	CO7780	100 mL	\$13.80
Cobalt Chloride, in dilute Hydrochloric Acid; Verified NIST SRM 3113	CO7780	500 mL	\$37.50
Conductivity Standard, 10 μS/cm	CS7311	500 mL	\$19.50
Dilute solution of Potassium Chloride.	CS7311	1 L	\$28.50
Conductivity Standard, 46.7 μS/cm	CS7926	500 mL	\$19.50
Potassium Chloride Solution, 0.0001 M @ 25.0 C	CS7926	1 L	\$28.50
Conductivity Standard, 73.9 μS/cm	CS7900	500 mL	\$19.50
Potassium Chloride Solution, 0.0005 M @ 25.0 C	CS7900	1 L	\$28.50
Conductivity Standard, 147 μS/cm	CS7910	500 mL	\$19.50
Potassium Chloride Solution, 0.001 M @ 25.0 C	CS7910	1 L	\$28.50
Conductivity Standard, 1,413 μS/cm	CS7920	500 mL	\$19.50
Potassium Chloride Solution, 0.01 M @ 25.0 C	CS7920	1 L	\$28.50
Conductivity Standard, 2,767 μS/cm	CS7930	500 mL	\$19.50
Potassium Chloride Solution, 0.02 M @ 25.0 C	CS7930	1 L	\$28.50
Conductivity Standard, 6,668 μS/cm	CS7940	500 mL	\$19.50
Potassium Chloride Solution, 0.05 M @ 25.0 C	CS7940	1 L	\$28.50

Conductivity Standard, 12,900 µS/cm	CS7950	500 mL	\$19.50
Potassium Chloride Solution, 0.1 M @ 25.0 C	CS7950	1 L	\$28.50
CONDUCTIVITY STANDARDS OF ANY REASONABLE VALUE ARE AVAILABLE-PLEASE INQUIRE.			
Copper Sulfate Plating Electrolytes are economical to prepare, operate, analyze and waste treat. They are used in printed circuit board manufacturing, electronics, metal finishing and plating on plastics. The chemistry of Acid Copper Plating is simple, with copper(II) sulfate, sulfuric acid and chloride forming the ionized species in solution. Sulfuric Acid increases the conductivity of the solution and reduces anode and cathode polarizations. High Throwing Power formulations are available.			
Copper Fluoroborate Solutions allow use of higher current densities and increased plating speed since copper fluoroborate is extremely soluble and large amounts can be dissolved in water.			
Copper Pyrophosphate Plating Solutions require more control and maintenance than the other solutions but their main use has been for plating on plastics and printed circuits. The chemistry is the formation of the potassium copper pyrophosphate complex from copper pyrophosphate and potassium pyrophosphate. Anode and cathode efficiencies of copper pyrophosphate baths are essentially 100%. Maximum agitation is required for the best results			
Ψ Acid Copper Sulfate Plating Solutions	INQUIRE		
Ψ Copper Fluoroborate Plating Solutions	INQUIRE		
Ψ Copper Pyrophosphate Plating Solutions	INQUIRE		
Ψ Copper Atomic Absorption Standard, 1000 ppm	CU7790	100 mL	\$13.80
Copper shot in 2% Nitric Acid; Verified NIST SRM 3114	CU7790	500 mL	\$37.50
Copper Standard, 1000 mg / L (ppm)	CS7791	100 mL	\$13.80
Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.	CS7791	500 mL	\$37.50
Copper Sulfate Standard, 0.01 Molar	CS7801	1 L	\$16.50
Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.	CS7801	3.8 L	\$50.00
Copper Sulfate Standard, 0.016 Molar	CS7802	1 L	\$16.50
Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.	CS7802	3.8 L	\$50.00
Copper Sulfate Standard, 0.025 Molar	CS7803	1 L	\$16.50
Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.	CS7803	3.8 L	\$50.00
Cupric Sulfate, Pentahydrate, Fine Crystal, A.C.S.	CS9507	500g	\$25.75
CuSO4·5H2O F.W. 249.69 CAS 7758-99-8 Assay: 98.0 - 102.0% [Copperas]	CS9507	2.5 Kg	\$76.50
De-ionized Reagent Water, Type III ASTM D-1193	DI7063	1 L	\$7.50
Resistivity: 4.0 MΩ-cm; Total Organic Carbon (TOC): 200 ppb max.	DI7063	3.8 L	\$10.50
Silica: 500 ppb max.; Chlorides: 10 ppb max.; Sodium: 10 ppb max.	DI7063	20 L	\$53.00
Distilled Reagent Water, Type II ASTM D-1193	DI7062	1 L	\$8.50
Resistivity: 1.0 MΩ-cm; Total Organic Carbon (TOC): 50 ppb max.	DI7062	3.8 L	\$12.50
Silica: 3 ppb max.; Chlorides: 5 ppb max.; Sodium: 5 ppb max.	DI7062	20 L	\$63.00
Dextrose, Anhydrous, USP/NF	DG9310	500g	\$19.50
C6H12O6 F.W. 180.20 CAS 50-99-7 Assay: 99.5% min.	DG9310	2.5Kg	\$53.50
[D-Glucose; Corn sugar; Glucose]			
Ethylenediaminetetraacetic Acid (EDTA) Free Acid, A.C.S.	EA9597	125g	\$20.00
C10H14N2O8 F.W. 292.25 CAS 60-00-4 Assay: 99.4 - 100.6%	EA9597	500g	\$49.00
[(Ethylenedinitrilo)tetraacetic Acid; Edetic Acid]	EA9597	2.5Kg	\$122.50
EDTA, Disodium, Dihydrate, A.C.S.	ED9670	125g	\$20.00
C10H14N2Na2O8·2H2O F.W. 372.24 CAS 6381-92-6 Assay: 99.0 - 101.0%	ED9670	500g	\$49.00
[Edetate, Disodium; Ethylenedinitrilotetraacetic Acid, Sodium Salt]	ED9670	2.5Kg	\$122.50
EDTA Disodium Titrant, 0.01 M Solution	ED1001	1 L	\$14.75
1.0 mL = 1.0 mg CaCO ₃ ; 1.0 mL = 0.4008 mg Ca	ED1001	3.8 L	\$36.75
	ED1001	4 x 3.8 L	\$84.50
EDTA Disodium Titrant, 0.05 M Solution	ED1005	1 L	\$14.75
1.0 mL = 5.0 mg CaCO ₃ ; 1.0 mL = 2.004 mg Ca	ED1005	3.8 L	\$36.75
	ED1005	4 x 3.8 L	\$84.50
EDTA Disodium Titrant, 0.0575 M Solution	ED1575	1 L	\$14.75
1.0 mL = 5.75 mg CaCO ₃ ; 1.0 mL = 2.3046 mg Ca	ED1575	3.8 L	\$36.75
	ED1575	4 x 3.8 L	\$84.50

EDTA Disodium Titrant, 0.1 M Solution	ED1006	1 L	\$14.75
1.0 mL = 10.0 mg CaCO ₃ ; 1.0 mL = 4.008 mg Ca	ED1006	3.8 L	\$36.75
	ED1006	4 x 3.8 L	\$84.50
Filling solutions for many different electrode reference systems and Ion Specific Electrodes (ISE) are available! please inquire!			
Electrode Filling Solution, 3 M KCl	EF6063	125 mL	\$15.00
Saturated with Silver Chloride. Never use filling solutions containing Silver in Ross™ electrodes!			
Electrode Filling Solution, 3 M KCl	EF6062	125 mL	\$15.00
Electrode Filling Solution, 4 M KCl	EF6060	125 mL	\$15.00
Saturated with Silver Chloride. Never use filling solutions containing Silver in Ross™ electrodes!			
Electrode Filling Solution, 4 M KCl	EF6070	125 mL	\$15.00
Electrode Storage Solution, pH 4.0	ES6080	500 mL	\$18.37
For proper storage of glass membrane and combination pH electrodes. pH 4.0 buffer with Potassium Chloride as Ionic Strength Adjustor.	ES6080	1 L	\$26.69
	ES6080	3.8 L	\$53.00
Electrode Storage Solution, pH 7.0	ES6090	500 mL	\$18.37
pH 7.0 buffer with Potassium Chloride as Ionic Strength Adjustor. Never store pH combination electrodes in distilled or de-ionized water!	ES6090	1 L	\$26.69
	ES6090	3.8 L	\$53.00
Ethyl Alcohol Standard, 10.0%(v/v) Aqueous	EA7800	60 mL	\$20.70
Certified Traceable to National Institute of Standards and Technology (NIST) Standard Reference Material (SRM) 136e, Potassium Dichromate, Oxidimetric Standard (99.984 ± 0.010%)	EA7800	500 mL	\$69.50
Ethyl Alcohol Standard, 11.0% (v/v) Aqueous	EA7810	60 mL	\$20.70
Accuracy to ± 0.1% by volume at 20 C.	EA7810	500 mL	\$69.50
Ethyl Alcohol Standard, 12.0% (v/v) Aqueous	EA7820	60 mL	\$20.70
Accuracy to ± 0.1% by volume at 20 C.	EA7820	500 mL	\$69.50
Ethyl Alcohol Standard, 13.0% (v/v) Aqueous	EA7830	60 mL	\$20.70
Accuracy to ± 0.1% by volume at 20 C.	EA7830	500 mL	\$69.50
Ethyl Alcohol Standard, 14.0% (v/v) Aqueous	EA7840	60 mL	\$20.70
Accuracy to ± 0.1% by volume at 20 C.	EA7840	500 mL	\$69.50
Ethyl Alcohol Standard, 15.0% (v/v) Aqueous	EA7850	60 mL	\$20.70
Accuracy to ± 0.1% by volume at 20 C.	EA7850	500 mL	\$69.50
Ψ Ethyl Alcohol, Anhydrous, Absolute, 200 Proof, USP	EA9320	500 mL	\$40.00
C ₂ H ₅ OH F.W. 46.07 d 0.810 CAS 64-17-5 Assay: 99.5% by volume minimum. [Ethanol, Undenatured; Dehydrated Ethanol]; Prices include Federal Excise tax. Light Sensitive.	EA9320	1 L	\$64.00
	EA9320	3.8 L	\$147.20
Ψ Ethanol, 99%, Denatured, Technical Grade	ET9405	500 mL	\$14.00
CH ₃ CH ₂ OH F.W. 46.07 d 0.785 CAS 64-17-5 Anhydrous, denatured Ethyl Alcohol may contain MIBK as a denaturant; cannot be made non-poisonous!	ET9405	1 L	\$18.47
	ET9405	3.8 L	\$27.05
	ET9405	4 x 3.8 L	\$85.50
	ET9405	20 L	\$94.15
Ethylene Glycol Reagent	EG9450	500ml	\$18.15
C ₂ H ₆ O ₂ F.W. 62.07 d 1.114 CAS 107-21-1 Assay: 99.0% min.	EG9450	3.8 L	\$59.95
	EG9450	4 x 3.8 L	\$137.85
Fehling's Solution "A"	FA6250	500 mL	\$13.50
For Reducing Sugars; Mix equal volumes of "A" with "B"	FA6250	1 L	\$17.00
Fehling's Solution "B"	FB6260	500 mL	\$16.00
For Reducing Sugars; Mix equal volumes of "A" with "B"	FB6260	1 L	\$20.90
Ferric Ammonium Sulfate, Dodecahydrate, A.C.S.	FS9133	500 g	\$30.95
H ₄ FeNO ₈ S ₂ ·12H ₂ O F.W. 482.20 CAS 7783-83-7 Assay: 98.5 - 102.0% [Iron(III) Ammonium Sulfate]	FS9133	2.5 kg	\$87.45
Ferric Chloride, 0.025% (w/v)	FC6100	500 mL	\$16.20
For Biochemical Oxygen Demand (BOD), APHA 5210 B. 5-Day BOD Test	FC6100	1 L	\$18.42
	FC6100	3.8 L	\$25.46

Ferroun Indicator, 0.025 M	FE4120	60 mL	\$15.00
1, 10 - Phenanthroline - Ferrous Sulfate; For Chemical Oxygen Demand (COD)	FE4120	100 mL	\$25.00
Ferrous Ammonium Sulfate, Hexahydrate, A.C.S.	FA9510	500g	\$48.00
FeSO ₄ (NH ₄) ₂ SO ₄ ·6H ₂ O F.W. 392.14 CAS 7783-85-9 Assay: 98.5 - 101.5% [Iron(II) Ammonium Sulfate]	FA9510	2.5 Kg	\$150.00
Ferrous Sulfate, Heptahydrate A.C.S.	FS9640	500g	\$29.50
FeSO ₄ ·7H ₂ O F.W. 278.02 CAS 7782-63-0 Assay: 99.0% min. [Iron(II) Sulfate]	FS9640	2.5Kg	\$81.35
Fluoride Standard, 10 mg/L (ppm)	FS7195	500 mL	\$14.35
1.0 mL = 0.010 mg Fluoride anion from high-purity Sodium Fluoride	FS7195	1 L	\$22.50
Fluoride Standard, 100 mg/L (ppm)	FS7190	500 mL	\$14.35
1.0 mL = 0.100 mg Fluoride anion from Sodium Fluoride	FS7190	1 L	\$22.50
Fluoride Standard, 1000 mg/L (ppm)	FS7200	500 mL	\$14.35
1.0 mL = 1.000 mg Fluoride anion	FS7200	1 L	\$22.50
Ψ Formic Acid, 88%, A.C.S.	FA9130	500 mL	\$32.55
CH ₂ O ₂ F.W. 46.03 d 1.220 CAS 64-18-6 Assay: 88% min.	FA9130	3.8 L	\$85.60
Fructose Standard, 50 mg/L (ppm)	FU7590	100 mL	\$15.00
Fructose dissolved in 10% Ethanol; 5.0 mg Fructose per 100 mL solution.			
Fructose Standard, 200 mg/L (ppm)	FU7600	100 mL	\$15.00
Fructose dissolved in 10% Ethanol; 20 mg Fructose per 100 mL solution.			
Fructose Standard, 500 mg/L (ppm)	FU7610	100 mL	\$15.00
Fructose dissolved in 10% Ethanol; 50 mg Fructose per 100 mL solution.			
Fructose Standard, 600 mg/L (ppm)	FU7620	100 mL	\$15.00
Fructose dissolved in 10% Ethanol; 60 mg Fructose per 100 mL solution.			
Fructose Standard, 1000 mg/L (ppm)	FU7630	100 mL	\$15.00
Fructose dissolved in 10% Ethanol; 100 mg Fructose per 100 mL solution.			
Fructose Standard, 1500 mg/L (ppm)	FU7640	100 mL	\$15.00
Fructose dissolved in 10% Ethanol; 150 mg Fructose per 100 mL solution.			
Fructose Standard, 2000 mg/L (ppm)	FU7650	100 mL	\$17.00
Fructose dissolved in 10% Ethanol; 200 mg Fructose per 100 mL solution.			
Fructose Standard, 3000 mg/L (ppm)	FU7660	100 mL	\$17.00
Fructose dissolved in 10% Ethanol; 300 mg Fructose per 100 mL solution.			
Fructose Standard, 4000 mg/L (ppm)	FU7670	100 mL	\$17.00
Fructose dissolved in 10% Ethanol; 400 mg Fructose per 100 mL solution.			
Fructose Standard, 6000 mg/L (ppm)	FU7680	100 mL	\$17.00
Fructose dissolved in 10% Ethanol; 600 mg Fructose per 100 mL solution.			
Fructose Standard, 10,000 mg/L (ppm)	FU7690	100 mL	\$19.00
Fructose dissolved in 10% Ethanol; 1.000 g Fructose per 100 mL solution.			
Fructose Standard, 20,000 mg/L (ppm)	FU7691	100 mL	\$19.00
Fructose dissolved in 10% Ethanol; 2.000 g Fructose per 100 mL solution.			
Fructose Standard, 40,000 mg/L (ppm)	FU7692	100 mL	\$19.00
Fructose dissolved in 10% Ethanol; 4.000 g Fructose per 100 mL solution.			
Fructose Standard, 100,000 mg/L (ppm)	FU7693	100 mL	\$21.00
Fructose dissolved in 10% Ethanol; 10.000 g Fructose per 100 mL solution.			
Fructose Standard, 200,000 mg/L (ppm)	FU7694	100 mL	\$23.00
Fructose dissolved in 10% Ethanol; 20.000 g Fructose per 100 mL solution.			
Fructose Standard, 300,000 mg/L (ppm)	FU7695	100 mL	\$25.00
Fructose dissolved in 10% Ethanol; 30.000 g Fructose per 100 mL solution.			

Gallic Acid, Monohydrate, Certified A.C.S. C7H6O5-H2O F.W. 188.14 CAS 5995-86-8 Assay: 98.0% min. [3,4,5-Trihydroxybenzoic acid]	GA9650	10 g	\$12.00
Gallic Acid Equivalent (GAE) Standard, 100 mg/L (ppm) Equivalent to 10.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7310	100 mL	\$15.00
Gallic Acid Equivalent Standard, 250 mg/L (ppm) Equivalent to 25.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7320	100 mL	\$15.00
Gallic Acid Equivalent Standard, 500 mg/L (ppm) Equivalent to 50.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7330	100 mL	\$15.00
Gallic Acid Equivalent Standard, 750 mg/L (ppm) Equivalent to 75.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7340	100 mL	\$15.00
Gallic Acid Equivalent Standard, 1000 mg/L (ppm) Equivalent to 100.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7350	100 mL	\$15.00
Gallic Acid Equivalent Standard, 1500 mg/L (ppm) Equivalent to 150.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7360	100 mL	\$15.00
Gallic Acid Equivalent Standard, 2000 mg/L (ppm) Equivalent to 200.0 mg Gallic acid per 100 mL solution in 10% v/v Ethanol	GA7370	100 mL	\$15.00
Glycerin, Natural, USP C3H8O3 F.W. 92.10 d 1.264 CAS 56-81-5 Assay: 99.0 - 101.0%	GY9314	1 L	\$31.10
	GY9314	3.8 L	\$52.65
	GY9314	4 x 3.8 L	\$121.00
Ψ Gold Atomic Absorption Standard, 1000 ppm Gold metal ions in 10% Hydrochloric Acid Matrix; Verified NIST SRM 3121	AU7705	100 mL	\$53.80
	AU7705	500 mL	\$165.00
Gold Coast Solution #1 Copper Sulfate Solution	GC6281	500 mL	\$15.80
	GC6281	1 L	\$21.80
	GC6281	3.8 L	\$52.00
Gold Coast Solution #2 Potassium Sodium Tartrate Solution	GC6282	500 mL	\$19.30
	GC6282	1 L	\$29.10
	GC6282	3.8 L	\$53.00
Gold Coast Solution #3 Potassium Iodide Solution	GC6283	500 mL	\$22.50
	GC6283	1 L	\$40.60
	GC6283	3.8 L	\$120.00
Ψ Gold Coast Solution #4 Sulfuric Acid Solution, 25% v/v (1+3)	GC6284	500 mL	\$16.45
	GC6284	1 L	\$20.30
	GC6284	3.8 L	\$45.90
Gold Coast Solution #5 Starch in Potassium Iodide Solution	GC6285	500 mL	\$17.10
	GC6285	1 L	\$22.00
	GC6285	3.8 L	\$50.60
Gold Coast Solution #6 Sodium Thiosulfate Solution	GC6286	500 mL	\$14.80
	GC6286	1 L	\$19.00
	GC6286	3.8 L	\$43.70
Ψ Hardness Buffer Solution For Water Hardness, APHA 2340 C. EDTA Titrimetric Method. Ammonium Chloride-Ammonium Hydroxide with Disodium Magnesium EDTA	HB2110	500 mL	\$18.00
	HB2110	1 L	\$28.00
	HB2110	3.8 L	\$64.40
Ψ Hexanes (n-Hexane) Technical Grade Mixture of several isomers of hexane predominantly n-hexane, 2-methylpentane and 3-methylpentane, plus methylcyclopentane. Flammable!	HX9406	1 L	\$27.96
	HX9406	3.8 L	\$13.96
Hydrochloric Acid, 0.01 N N/100, 0.0100 N ± 0.0001 N (0.0099 - 0.0101 N) Aqueous Solution. Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM, 84k Potassium Hydrogen Phthalate.	HC1009	1 L	\$8.50
	HC1009	3.8 L	\$18.75
	HC1009	4 x 3.8 L	\$43.10
	HC1009	20 L	\$45.00
Hydrochloric Acid, 0.1 N N/10, 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N) Aqueous Solution Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM, 84k Potassium Hydrogen Phthalate.	HC1020	1 L	\$8.50
	HC1020	3.8 L	\$18.75
	HC1020	4 x 3.8 L	\$43.10
	HC1020	20 L	\$45.00

Hydrochloric Acid, 0.2 N Aqueous	HC1028	1 L	\$8.50
(N/5) 0.2000 N ± 0.0005 N (0.1995 - 0.2005 N)	HC1028	3.8 L	\$18.75
	HC1028	4 x 3.8 L	\$43.10
Hydrochloric Acid, 0.5 N (N/2)	HC1027	1 L	\$8.50
0.500 N ± 0.002 N (0.498 - 0.502 N) Aqueous Solution	HC1027	3.8 L	\$18.75
	HC1027	4 x 3.8 L	\$43.10
Ψ Hydrochloric Acid, 1.0 N	HC1030	1 L	\$8.50
1.000 N ± 0.005 N (0.995 - 1.005 N) Aqueous Solution	HC1030	3.8 L	\$18.75
Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM, 84k Potassium Hydrogen Phthalate.	HC1030	4 x 3.8 L	\$43.10
	HC1030	20 L	\$45.00
Ψ Hydrochloric Acid, 2.0 N	HC1040	1 L	\$9.95
2.000 N ± 0.005 N (1.995 - 2.005 N) Aqueous Solution	HC1040	3.8 L	\$19.50
Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM, 84k Potassium Hydrogen Phthalate.	HC1040	4 x 3.8 L	\$44.85
Ψ Hydrochloric Acid, 10% (v/v) (1+9)	HC6110	1 L	\$9.95
About 1.2 Normal Aqueous Solution	HC6110	3.8 L	\$19.50
	HC6110	4 x 3.8 L	\$44.85
Ψ Hydrochloric Acid, 50%(v/v)	HC6120	1 L	\$19.95
About 6 Normal or Molar Aqueous Solution	HC6120	3.8 L	\$49.50
	HC6120	4 x 3.8 L	\$113.85
Ψ Hydrochloric Acid, A.C.S.	HC9040	1 L	\$22.50
HCl F.W. 36.46 d 1.200 CAS 7647-01-0 Assay: 36.5 - 38.0% Corrosive!	HC9040	2.5 L	\$25.80
[Muriatic Acid; Hydrogen Chloride, Aqueous Solution]	HC9040	3.8 L	\$33.40
	HC9040	4 x 3.8 L	\$93.50
Ψ Hydrochloric Acid, 20° Baume	HC9509	1 L	\$13.45
Sp. Gr. = 145 / (145 - ° Baume) for above 145/125 = 1.16	HC9509	3.8 L	\$23.00
	HC9509	4 x 3.8 L	\$52.90
Ψ Hydrofluoric Acid, 49%, Electronic/Cleanroom Grade	HF9250	3.8 L	\$43.10
HF F.W. 20.01 d 1.150 CAS 7664-39-3 Assay: 48.8 - 49.2% Corrosive!	HF9250	4 x 3.8 L	\$109.25
Hydrogen Peroxide, 1% (v/v)	HP6565	1 L	\$15.00
Aqueous Solution for sulfites in wine by Aeration - Oxidation method.	HP6565	3.8 L	\$34.50
Hydrogen Peroxide, 3% (v/v)	HP6300	500 mL	\$10.00
Sulfites in wine by Aeration-Oxidation method.	HP6300	1 L	\$15.00
	HP6300	3.8 L	\$34.50
Ψ Hydrogen Peroxide, A.C.S.	HP9050	500 mL	\$21.54
H2O2 F.W. 34.01 d 1.110 CAS 7722-84-1 Assay: 29.0 - 32.0% Oxidizer!	HP9050	1 L	\$25.50
contains minimum amount of stabilizer; refrigerate for extended shelf life.	HP9050	3.8 L	\$45.50
	HP9050	4 x 3.8 L	\$127.40
Ψ Hydroxylamine Hydrochloride, Crystal, A.C.S.	HH9555	500g	\$43.95
NH2OH-HCl F.W. 69.49 CAS 5470-11-1 Assay: 96.0% min. Corrosive, Toxic Solid!	HH9555	2.5Kg	\$131.85
Iodine Solution, 0.00564 N	IS1564	1 L	\$15.00
0.00564 N ± 0.00002 N	IS1564	3.8 L	\$42.00
Iodine Solution, 0.02 N	IS1400	500 mL	\$10.95
N/50 0.0200 N ± 0.0005 (0.0195 - 0.0205 N)	IS1400	1 L	\$15.00
Iodine in Potassium Iodide solution for titration of reducing agents such as Sodium Thiosulfate	IS1400	3.8 L	\$42.00
Iodine Solution, 0.0156 N	IS1410	500 mL	\$10.95
0.0156 N ± 0.0002 N (0.0154 - 0.0158 N)	IS1410	1 L	\$15.00
	IS1410	3.8 L	\$42.00
Iodine Solution, 0.0282 N	IS1070	500 mL	\$10.95
0.0282 N ± 0. 0005 N (0.0277 - 0.0287 N)	IS1070	1 L	\$15.00
	IS1070	3.8 L	\$42.00
Iodine Solution, 0.1 N	IS1050	500 mL	\$11.50
0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)	IS1050	1 L	\$19.50
	IS1050	3.8 L	\$44.50

Ψ Iron Atomic Absorption Standard, 1000 ppm	FE7715	100 mL	\$13.80
Iron powder in 2% Nitric Acid; Verified NIST SRM 3126	FE7715	500 mL	\$37.50
Ψ Iron Standard Solution as Fe, 200 mg/l (ppm)	FE7716	500 mL	\$16.20
Prepared from 1000 ppm standard by volumetric dilution with 2% Nitric Acid	FE7716	1 L	\$123.18
Isopropyl Alcohol Internal Standard, 0.2% (v/v)	IA7717	100 mL	\$12.50
For use in the Gas Chromatography of Alcohols.			
Isopropyl Alcohol, 10% (v/v) Aqueous	IA6257	3.8 L	\$14.75
Semiconductor Isopropyl Alcohol (Class 10) in de-ionized Water.	IA6257	4 x 3.8 L	\$44.25
Ψ Isopropyl Alcohol, 70% (v/v)	IA6191	3.8 L	\$23.25
Aqueous solution of Isopropyl Alcohol commonly known as "rubbing alcohol".	IA6191	4 x 3.8 L	\$64.50
	IA6191	20 L	\$73.65
Ψ Isopropyl Alcohol, Reagent, A.C.S.	IA9060	500 mL	\$13.00
C3H7OH F.W. 60.10 d 0.781 CAS 67-63-0 Assay: 99.5% min.	IA9060	1 L	\$20.00
[Isopropanol; 2-Propanol; IPA]	IA9060	3.8 L	\$31.00
	IA9060	4 x 3.8 L	\$71.30
Ψ Isopropyl Alcohol, Technical Grade	IA9411	3.8 L	\$24.85
C3H7OH F.W. 60.10 d 0.781 CAS 67-63-0 Assay: 99.0% min.	IA9411	4 x 3.8 L	\$64.35
[Isopropanol; 2-Propanol; IPA]	IA9411	20 L	\$78.50
Lactic Acid Standard, 1000 mg/L (ppm)	LA7721	100 mL	\$14.10
Lactic Acid Standard, 5000 mg/L (ppm)	LA7722	100 mL	\$18.90
Lead Acetate Solution, Saturated, Neutral	LA6301	100 mL	\$19.00
For sulfide removal before analysis and clarification in wine samples.			
Ψ Lead Atomic Absorption Standard, 1000 ppm	PB7725	100 mL	\$13.80
Lead shot in 2% Nitric Acid; Verified NIST SRM 3128	PB7725	500 mL	\$37.50
Ψ Lithium Atomic Absorption Standard, 1000 ppm	LI7735	100 mL	\$13.80
Lithium Carbonate in 2% Nitric Acid; Verified NIST SRM 3129	LI7735	500 mL	\$37.50
Ψ Magnesium Atomic Absorption Standard, 1000 ppm	MG7745	100 mL	\$13.80
Magnesium granules in 2% Nitric Acid; Verified NIST SRM 3131	MG7745	500 mL	\$37.50
Magnesium Chloride, Hexahydrate, Technical Grade	MC9407	500g	\$15.00
MgCl2·6H2O F.W. 203.30 CAS 7791-18-6	MC9407	2.5 kg	\$40.00
Magnesium Sulfate, Heptahydrate, A.C.S.	MS9513	500 g	\$23.45
MgSO4·7H2O F.W. 246.48 CAS 10034-99-8 Assay: 99.0 - 100.5% [Epsom Salts]	MS9513	2.5 kg	\$70.45
Magnesium Sulfate, Heptahydrate, USP	MS9735	500 g	\$15.00
MgSO4·7H2O F.W. 246.48 CAS 10034-99-8 Assay: 99.0 - 100.5% [Epsom Salts]	MS9735	2.5 kg	\$33.00
Magnesium Sulfate Solution, 2.25% (w/v)	MS6130	500 mL	\$11.30
For Biochemical Oxygen Demand (BOD), APHA 5210 B. 5-Day BOD Test	MS6130	1 L	\$16.00
Malic Acid Standard, 100 mg/L (ppm)	MA7723	100 mL	\$14.00
1 - Malic Acid in 10% v/v Ethanol; 10.0 mg per 100 mL			
Malic Acid Standard, 250 mg/L (ppm)	MA7724	100 mL	\$14.00
1 - Malic Acid in 10% v/v Ethanol; 25.0 mg per 100 mL			
Malic Acid Standard, 500 mg/L (ppm)	MA7726	100 mL	\$14.00
1 - Malic Acid in 10% v/v Ethanol; 50.0 mg per 100 mL			
Malic Acid Standard, 750 mg/L (ppm)	MA7727	100 mL	\$14.00
1 - Malic Acid in 10% v/v Ethanol; 75.0 mg per 100 mL			
Malic Acid Standard, 1000 mg/L (ppm)	MA7728	100 mL	\$14.00
1 - Malic Acid in 10% v/v Ethanol; 100.0 mg per 100 mL			
Malic Acid Standard, 1500 mg/L (ppm)	MA7729	100 mL	\$14.00
1 - Malic Acid in 10% v/v Ethanol; 150.0 mg per 100 mL			

Malic Acid Standard, 2000 mg/L (ppm) 1 - Malic Acid in 10% v/v Ethanol; 200.0 mg per 100 mL	MA7731	100 mL	\$14.00
Malic Acid Standard, 3000 mg/L (ppm) 1 - Malic Acid in 10% v/v Ethanol; 300.0 mg per 100 mL	MA7732	100 mL	\$14.00
Ψ Manganese Atomic Absorption Standard, 1000 ppm Manganese Acetate in 2% Nitric Acid; Verified NIST SRM 3132	MN7755	100 mL	\$13.80
	MN7755	500 mL	\$37.50
Manganous Sulfate, 2.15 Molar Solution APHA for Dissolved Oxygen (DO), Azide Modification	MS6190	500 mL	\$34.60
	MS6190	1 L	\$45.00
Mannitol, USP/NF C6H14O6 F.W. 182.17 CAS 69-65-8 Assay: 96.0 - 101.5% [1,2,3,4,5,6-Hexanehexol; D-Mannitol; Mannite]	ML9512	100g	\$12.00
	ML9512	500g	\$30.00
	ML9512	2.5 Kg	\$100.00
Ψ Mercury Atomic Absorption Standard, 1000 ppm Mercuric Nitrate in 2% Nitric Acid; Verified NIST SRM 3133	HG7765	100 mL	\$13.80
	HG7765	500 mL	\$37.50
Mercuric Nitrate Titrant, 0.0141 N 1.00 mL = 0.500 mg Cl For Chloride, APHA 4500-Cl C. Mercuric Nitrate Method	MN1410	500 mL	\$16.94
	MN1410	1 L	\$19.34
	MN1410	3.8 L	\$40.00
Ψ Mercuric Nitrate Titrant, 0.1 N 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)	MN1411	500 mL	\$17.00
	MN1411	1 L	\$20.00
	MN1411	3.8 L	\$45.00
Ψ Mercuric Nitrate Titrant, 0.141 N 1.00 mL = 5.000 mg Cl For Chloride, APHA 4500-Cl C. Mercuric Nitrate Method	MN1412	500 mL	\$17.15
	MN1412	1 L	\$22.00
	MN1412	3.8 L	\$48.00
Ψ Methyl Alcohol, Absolute, A.C.S. CH3OH F.W. 32.04 d 0.787 CAS 67-56-1 Assay: 99.8% min. Methanol	MA9070	500 mL	\$14.00
	MA9070	1 L	\$17.00
	MA9070	3.8 L	\$30.00
	MA9070	4 x 3.8 L	\$84.00
	MA9070	20 L	\$105.00
Ψ Methanol Technical Grade CH3OH F.W. 32.04 d 0.787 CAS 67-56-1 Assay: 99.5% min. Methyl Alcohol	MA9412	1 L	\$14.42
	MA9412	3.8 L	\$22.67
	MA9412	4 x 3.8 L	\$62.30
	MA9412	20 L	\$66.50
Molybdenum Atomic Absorption Standard, 1000 ppm Ammonium Molybdate in Water; Verified NIST SRM 3134	MO7775	100 mL	\$13.80
	MO7775	500 mL	\$37.50
Murexide Indicator on Sodium Chloride Ammonium Purpate on Sodium Chloride crystals. Indicator for Calcium.	MU4900	100 g	\$14.00
Nickel coatings for engineering purposes are usually prepared from solutions that deposit pure nickel. The property sought is corrosion resistance, but wear resistance, solderability, magnetic and other physical properties are relevant. Controlling quality involves maintaining the purity of the plating solutions and the properties of the deposits.			
Ψ Nickel Plating Solutions	INQUIRE		
Ψ Nickel Atomic Absorption Standard, 1000 ppm Nickel Powder in 2% Nitric Acid; Verified NIST SRM 3136	NI7785	100 mL	\$13.80
	NI7785	500 mL	\$37.50
Nickel Sulfate, Hexahydrate, A.C.S. NiSO4·6H2O F.W. 262.85 CAS 10101-97-0 Assay: 98.0 - 102.0%	NS9555	500 g	\$78.45
	NS9555	2.5 kg	\$213.15
Nickel Sulfate, 0.01 Molar, Aqueous Solution 0.0100 M ± 0.0005 M (0.0095 - 0.0105 M)	NS6001	1 L	\$15.35
	NS6001	3.8 L	\$35.60
Nitrogen Standard as NH3, 100 mg/l (ppm) 1.00 mL = 0.100 mg Ammonia	NA7241	500 mL	\$16.95
	NA7241	1 L	\$25.50
Nitrogen Standard as NH3, 1000 mg/l (ppm) 1.00 mL = 1.00 mg Ammonia	NA7242	500 mL	\$16.95
	NA7242	1 L	\$25.50
Nitrogen Standard as NO3, 100 mg/l (ppm) 1.00 mL = 0.100 mg Nitrate	NS7240	500 mL	\$16.95
	NS7240	1 L	\$25.50

Nitrogen Standard as NO₃, 1000 mg/l (ppm) 1.00 mL = 1.00 mg Nitrate	NS7250 NS7250	500 mL 1 L	\$16.95 \$25.50
Nitrogen Standard as NO₂, 100 mg/l (ppm) 1.00 mL = 0.100 mg Nitrite	NN7261 NN7261	500 mL 1 L	\$16.95 \$25.50
Nitrogen Standard as NO₂, 1000 mg/l (ppm) 1.00 mL = 1.00 mg Nitrite	NN7262 NN7262	500 mL 1 L	\$16.95 \$25.50
Ψ Nitric Acid, 1.0 M Solution M = N, 1.000 M ± 0.005 M (0.995 - 1.005 M)	NA1090 NA1090	500 mL 1 L	\$14.80 \$18.75
Ψ Nitric Acid, 10% (w/w) Aqueous Prepared from Nitric Acid, ACS dissolved in de-ionized water. 1.673 N d 1.0543	NA6810 NA6810 NA6810 NA6810	500 mL 6 x 500 mL 1 L 2.5 L	\$17.15 \$66.90 \$22.45 \$28.10
Ψ Nitric Acid, 20% (w/w) Aqueous Prepared from Nitric Acid, ACS dissolved in de-ionized water. 3.359 N d 1.1150	NA6820 NA6820 NA6820 NA6820	500 mL 6 x 500 mL 1 L 2.5 L	\$18.90 \$73.70 \$24.75 \$31.00
Ψ Nitric Acid, 30% (w/w) Aqueous Prepared from Nitric Acid, ACS dissolved in de-ionized water. 5.618 N d 1.1801	NA6830 NA6830 NA6830 NA6830	500 mL 6 x 500 mL 1 L 2.5 L	\$20.70 \$78.25 \$27.10 \$33.90
Ψ Nitric Acid, 40% (w/w) Aqueous Prepared from Nitric Acid, ACS dissolved in de-ionized water. 7.913 N d 1.2466	NA6840 NA6840 NA6840 NA6840	500 mL 6 x 500 mL 1 L 2.5 L	\$22.40 \$84.70 \$29.35 \$36.80
Ψ Nitric Acid Solution, 50% (v/v) Aqueous Solution about 8 N; (1+1) d 1.25	NA6650 NA6650 NA6650	500 mL 1 L 2.5 L	\$18.50 \$25.50 \$40.80
Ψ Nitric Acid, Reagent, A.C.S. HNO ₃ F.W. 63.01 d 1.42 CAS 7697-37-2 Assay: 68.0 - 70.0% by weight. [Aqua Fortis]	NA9080 NA9080 NA9080	500 mL 1 L 2.5 L	\$15.25 \$21.50 \$34.50
Oxidation-Reduction Potential (ORP) Standard, 200 mV 200 mV ± 10 mV with respect to a Silver-Silver Chloride reference electrode filled with 4M KCl.	OS7260 OS7260	500 mL 1 L	\$20.00 \$26.00
Ψ ORP Standard, 400 mV 400 mV ± 10 mV with respect to a Silver-Silver Chloride reference electrode filled with 4M KCl.	OS7270 OS7270	500 mL 1 L	\$20.00 \$26.00
Ψ ORP Standard, 475 mV Light's Solution: Iron (II)/ Iron (III) Ammonium Sulfate Solution, For ORP, APHA 475 mV ± 10 mV with respect to a Silver-Silver Chloride reference electrode filled with 4M KCl.	LS7280 LS7280	500 mL 1 L	\$20.00 \$26.00
Ψ ORP Standard, 600 mV 600 mV ± 10 mV with respect to a Silver-Silver Chloride reference electrode filled with 4M KCl.	OS7290 OS7290	500 mL 1 L	\$20.00 \$26.00
Oxalic Acid, Dihydrate, Crystal, A.C.S. C ₂ H ₂ O ₄ ·2H ₂ O F.W. 90.04 CAS 6153-56-6 Assay: 99.5 - 102.5% [Ethanedioic Acid]	OA9567 OA9567	500 g 2.5 kg	\$41.15 \$120.25
Ψ Palladium Atomic Absorption Standard, 1000 ppm Ammonium Tetrachloropalladate in 10% Hydrochloric Acid; Verified NIST SRM 3138	PD7795 PD7795	100 mL 500 mL	\$53.80 \$165.00
Ψ PAN Indicator, 0.1% (w/v) in Isopropyl Alcohol [1-(2-Pyridylazo) - Naphthol] C ₁₅ H ₁₁ N ₃ O F.W. 249.27 CAS 85-85-8 Absorption max: 462 nm	PI4266 PI4266	100 mL 500 mL	\$21.00 \$34.00
Ψ Phenolphthalein Indicator Solution, 1% (w/v) in Isopropyl Alcohol pH 8.3 (Colorless) - pH 10.0 (Red)	PH4070 PH4070 PH4070 PH4070	500ml 1 L 3.8 L 4 x 3.8 L	\$15.19 \$20.25 \$46.50 \$107.10
Phenolphthalein, Powder, A.C.S. C ₂₀ H ₁₄ O ₄ F.W. 318.33 CAS 77-09-8 Assay: 98.0 - 101.0%	PH9347 PH9347 PH9347	25g 100g 500 g	\$22.50 \$44.75 \$73.85

Phenol Red Indicator, 0.04% w/v Aqueous pH 6.8 (Yellow) - pH 8.2 (Red)	PR4080	500 mL	\$10.00
	PR4080	1 L	\$14.71
Phenylarsine Oxide, 0.00564 N 1.00 mL = 0.200 mg Chlorine APHA 4500-Cl C. Iodometric Method II; [PAO]	PA1100	500 mL	\$31.00
	PA1100	1 L	\$48.00
	PA1100	3.8 L	\$145.00
Phosphate Buffer Solution, pH 7.0 For Residual Chlorine, APHA 4500-Cl D. Amperometric Titration Method	PB2120	500 mL	\$12.00
	PB2120	1 L	\$18.90
	PB2120	3.8 L	\$32.70
Phosphate Buffer Solution, pH 7.2 APHA for Media (Meets Specifications of ASTM D-4455)	PB2130	500 mL	\$12.00
	PB2130	1 L	\$18.90
	PB2130	3.8 L	\$32.70
Ψ Phosphoric Acid, 10% (v/v) Aqueous Solution (1+9) APHA for Phenols, 5530 B. Cleanup Procedure (Meets Specifications for ASTM D-1783).	PA6140	500 mL	\$13.00
	PA6140	1 L	\$17.00
	PA6140	3.8 L	\$35.00
	PA6140	4 x 3.8 L	\$80.50
Ψ Phosphoric Acid, 25% (v/v) (1+3) Aqueous Solution, about 3.7 M Prepared by dissolving 1 part by volume of Phosphoric Acid, 85%, A.C.S. in 3 parts by volume water.	PA6025	1 L	\$16.00
	PA6025	3.8 L	\$36.00
	PA6025	4 x 3.8 L	\$91.25
	PA6025	10 L	\$80.90
	PA6025	20 L	\$100.80
Ψ Phosphoric Acid, 29.5% (v/v) Solution 29.5 mL of Phosphoric Acid, 85% (w/w) A.C.S. dissolved in to 1 Liter	PA6027	3.8 L	\$36.00
	PA6027	4 x 3.8 L	\$91.25
Ψ Phosphoric Acid, A.C.S. H3PO4 F.W. 98.00 d 1.685 CAS 7664-38-2 Assay: 85% min. [Orthophosphoric Acid]	PA9085	1 L	\$24.15
	PA9085	2.5 L	\$35.25
	PA9085	3.8 L	\$47.85
	PA9085	4 x 3.8 L	\$110.00
Ψ Phosphoric Acid, Technical H3PO4 F.W. 98.00 d 1.685 CAS 7664-38-2 Assay: 75% min. [Orthophosphoric Acid]	PA9086	1 L	\$19.35
	PA9086	2.5 L	\$28.20
	PA9086	3.8 L	\$38.25
	PA9086	4 x 3.8 L	\$88.00
Ψ Platinum Atomic Absorption Standard, 1000 ppm Potassium Hexachloroplatinate in 2% Hydrochloric Acid; Verified NIST SRM 3140	PT7786	100 mL	\$69.35
	PT7786	500 mL	\$185.25
Ψ Potassium Atomic Absorption Standard, 1000 ppm Potassium Nitrate in 2% Nitric Acid; Verified NIST SRM 3141	K7787	100 mL	\$13.80
	K7787	500 mL	\$37.50
Ψ Potassium AA Standard, 500 mg/L (ppm) In 0.3 M Nitric Acid for Winery Laboratory use.	K57787	100 mL	\$13.80
	K57787	500 mL	\$37.50
Potassium Bromide, Crystal, A.C.S. KBr F.W. 119.00 CAS 7758-02-3 Assay: 99.0% min. Hygroscopic.	PB9205	500g	\$33.25
	PB9205	2.5Kg	\$95.85
Potassium Chloride, Crystal, A.C.S. KCl F.W. 74.55 CAS 7447-40-7 Assay: 99.0 - 100.5% Hygroscopic.	PC9520	500g	\$15.90
	PC9520	2.5 Kg	\$41.90
Ψ Potassium Chromate, Granular, A.C.S. K2CrO4 F.W. 194.19 CAS 7789-00-6 Assay: 99.0% min.	PC9523	500g	\$39.85
	PC9523	2.5 Kg	\$115.75
Ψ Potassium Chromate Indicator, 5% (w/v) Aqueous For Chloride, APHA, Argentometric Method. Written order required.	PC4100	500 ml	\$8.95
	PC4100	1 L	\$14.35
Ψ Potassium Fluoride, 40% (w/v) Aqueous Solution For Dissolved Oxygen, APHA 4500-O C. Azide Modification.	PF6150	500 mL	\$60.00
	PF6150	1 L	\$100.00
Potassium Hydrogen Bilodate, 0.1 N KH(IO3)2 F.W. 389.91 CAS 13455-24-8 Assay: 99.95 - 100.05	PB1700	1 L	\$22.00
	PB1700	3.8 L	\$50.00
Potassium Hydrogen Phthalate, Certified, A.C.S. C8H5KO4 F.W. 204.22 CAS 877-24-7 Assay: 99.95 - 100.05% Acidimetric Primary Standard. Before use, this material should be lightly crushed and dried for 2 hrs. @ 120 C. [Potassium Biphthalate; Potassium Acid Phthalate; Phthalic Acid, Monopotassium Salt].	KH9204	100 g	\$12.95
	KH9204	500 g	\$35.85

Potassium Hydrogen Phthalate, 0.1 N (N/10)	PB1600	1 L	\$25.10
0.1000 N ± 0.0005 N (0.0995 - 0.1005 N) Aqueous Solution	PB1600	3.8 L	\$52.90
Ψ Potassium Hydroxide, 45% (w/w) Aqueous Reagent	PH9045	1 L	\$20.85
KOH F.W. 56.11 d 1.456 CAS 1310-58-3 Assay: 45% min.	PH9045	3.8 L	\$43.45
	PH9045	4 x 3.8 L	\$99.95
Ψ Potassium Iodate, Powder, A.C.S.	PI9494	100 g	\$73.85
KIO ₃ F.W. 214.00 CAS 7758-05-6 Assay: 99.4 - 100.4%	PI9494	500 g	\$123.45
Potassium Iodate, 0.00564 N Aqueous	PI1511	1 L	\$19.20
0.00564 N ± 0.00002 N (0.00562 - 0.00568 N) M = 6 N Equivalent weight of KIO ₃ is 35.6667 g	PI1511	3.8 L	\$40.00
Potassium Iodate, 0.05 M Solution	PI1115	1 L	\$30.10
KIO ₃ F.W. 214.00 CAS 7758-05-6 Assay: 99.4 - 100.4%	PI1115	3.8 L	\$73.45
M = 6 N 0.0500 M ± 0.0005 M (0.0495 - 0.0505 M)			
Potassium Iodate, 0.1 N Solution	PI1117	1 L	\$34.80
Aqueous Solution, M = 6N, therefore 0.1 N = 0.0167 M	PI1117	3.8 L	\$78.80
Ψ - Hazardous material shipping charges apply to products marked with Ψ.			
Potassium Iodate Concentrate II	PI1068	250 mL	\$25.00
For Residual Chlorine at ± 5 ppm Deox 2000 Analyzer - 0.68 N	PI1068	4 x 250 mL	\$90.00
Potassium Iodate Concentrate I	PI1136	250 mL	\$40.00
For Residual Chlorine at ± 10 ppm Deox 2000 Analyzer - 1.36 N	PI1136	4 x 250 mL	\$144.00
Potassium Iodate - Iodide, 0.00794 N (N/126)	II1138	1 L	\$14.00
0.00794 N ± 0.00005 N (0.00789 - 0.00799 N) Aqueous solution	II1138	3.8 L	\$30.00
Potassium Iodate-Iodide, 0.0156 N	II1500	1 L	\$32.00
M = 6 N 0.0156 N ± 0.0005 N (0.0151 - 0.0161 N)	II1500	3.8 L	\$65.00
Potassium Iodate-Iodide, 0.02 N	II1502	1 L	\$34.00
M = 6 N 0.0200 N ± 0.0005 N (0.0195 - 0.0205 N)	II1502	3.8 L	\$70.00
Potassium Iodate-Iodide, 0.025 N	II1102	1 L	\$36.00
M = 6 N 0.0250 N ± 0.0005 N (0.0245 - 0.0255 N)	II1102	3.8 L	\$75.00
Potassium Iodate-Iodide, 0.1 N	II1111	1 L	\$35.00
M = 6 N 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)	II1111	3.8 L	\$73.50
Potassium Iodide, 5% (w/v) Aqueous Solution	PI6160	500 mL	\$19.32
Stabilized for Residual Chlorine, APHA 4500-Cl D. Amperometric Titration Method. Light Sensitive.	PI6160	1 L	\$35.25
Potassium Iodide, 10% (w/v) Aqueous Solution	PI6165	500 mL	\$21.75
Stabilized. Light Sensitive.	PI6165	1 L	\$38.50
Potassium Iodide, Crystals, A.C.S.	PI9530	500g	\$64.75
KI F.W. 166.00 CAS 7681-11-0 Assay: 99.0% min.	PI9530	2.5 Kg	\$268.65
Light and Moisture Sensitive.	PI9530	5 Kg	\$425.75
Ψ Potassium Nitrate, A.C.S.	PN9556	500 g	\$34.00
KNO ₃ F.W. 101.10 CAS 7757-79-1 Assay: 99.0% min.	PN9556	2.5 kg	\$95.15
Ψ Potassium Permanganate, Crystal, A.C.S.	PP9540	500g	\$35.84
KMnO ₄ F.W. 158.03 CAS 7722-64-7 Assay: 99.0% min. DEA list 2; Written order required!	PP9540	2.5 Kg	\$87.85
Potassium Permanganate, 0.1 N Aqueous	PP1987	1 L	\$19.40
M = 5 N 31.606 grams KMnO ₄ dissolved per Liter in freshly boiled distilled water then.	PP1987	3.8 L	\$43.00
Potassium Permanganate, 1.0 N Aqueous	PP1988	1 L	\$29.10
M = 5 N 316.06 grams KMnO ₄ dissolved per Liter in freshly boiled distilled water.	PP1988	3.8 L	\$94.60
Potassium Phosphate, Dibasic, Anhydrous, A.C.S.	PP9552	500g	\$31.50
K ₂ HPO ₄ F.W. 174.18 CAS 7758-11-4 Assay: 98.0% min.	PP9552	2.5 Kg	\$104.50
Potassium Phosphate, Monobasic, A.C.S.	PP9550	500g	\$19.00
KH ₂ PO ₄ F.W. 136.09 CAS 7778-77-0 Assay: 98.0 - 100.5% dried basis @ 105 C	PP9550	2.5 Kg	\$70.00

Potassium Sodium Tartrate, Tetrahydrate, A.C.S. C4H4KNaO6·4H2O F.W. 282.22 CAS 6381-59-5 Assay: 99.0 - 102.0% [Rochelle Salt]	PS9565 PS9565	500g 2.5 Kg	\$26.35 \$84.50
Potassium Sulfate, Crystal, A.C.S. K2SO4 F.W. 174.26 CAS 7778-80-5 Assay: 99.0% min.	PS9560 PS9560	500g 2.5 Kg	\$18.50 \$64.75
Potassium Thiocyanate, A.C.S. KSCN F.W. 97.18 CAS 333-20-0 Assay: 98.5% min [Potassium Sulfoyanate]	PT9699 PT9699	500 g 2.5 kg	\$51.95 \$140.25
Potassium Thiocyanate, 0.1 N Aqueous Solution, 0.1000 N ± 0.0005 N	PT1699 PT1699	1 L 3.8 L	\$18.65 \$39.45
Propylene Glycol, A.C.S. C3H8O2 F.W. 76.10 d 1.036 CAS 57-55-6 Assay: 99.5% min. [1,2-Propanediol]	PG9315 PG9315 PG9315	1 L 3.8 L 4 x 3.8 L	\$20.50 \$45.50 \$104.65
Sand Equivalent Stock Solution CalTrans Test 217 (November 1999) Method of Test for Sand Equivalent OPW Catalog Number 6810-0090-3 Calcium Chloride Stock Solution with Glycerol. Sterile without Formaldehyde!	SE6500 SE6500 SE6500 SE6500	500 mL 1 L 3.8 L 4 x 3.8 L	\$15.00 \$22.90 \$35.60 \$126.90
Ψ Selenium Atomic Absorption Standard, 1000 ppm Selenium shot in 2% Nitric Acid; Verified NIST SRM 3149	SE7797 SE7797	100 mL 500 mL	\$13.80 \$37.50
Silicon Atomic Absorption Standard, 1000 ppm Ammonium Hexafluorosilicate in water; Verified NIST SRM 3150	SI7798 SI7798	100 mL 500 mL	\$13.80 \$37.50
Ψ Silver Atomic Absorption Standard, 1000 ppm Silver Nitrate in 2% Nitric Acid; Verified NIST SRM 3151 Light Sensitive.	AG7799 AG7799	100 mL 500 mL	\$13.80 \$37.50
Silver Nitrate, 0.01 N Aqueous 0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)	SN1111 SN1111	1 L 3.8 L	\$24.10 \$55.45
Silver Nitrate, 0.0141 N Aqueous 0.0141 N ± 0.0005 N 1.00 mL = 0.50 mg Cl For Chloride APHA 4500-Cl B. Argentometric Method.	SN1110 SN1110 SN1110	500 mL 1 L 3.8 L	\$16.20 \$24.10 \$55.45
Silver Nitrate, 0.1 N Aqueous 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N) NIST Traceable to SRM Potassium Chloride, 999b	SN1710 SN1710 SN1710	500 mL 1 L 3.8 L	\$19.70 \$29.90 \$68.75
Silver Nitrate, 1.0 N Aqueous 1.000 N ± 0.005 N (0.995 - 1.005 N)	SN1099 SN1099 SN1099	500 mL 1 L 3.8 L	\$60.90 \$91.20 \$209.75
Ψ Silver Nitrate, Crystal, A.C.S. AgNO3 F.W. 169.87 CAS 7761-88-8 Assay: 99.0% min. Light Sensitive.	SN9517 SN9517	100g 500g	\$62.00 \$237.25
SO2 Indicator for Aeration-Oxidation Method Methyl Red and Methylene Blue in 50% Ethanol; pH 4.2 (mauve) to pH 6.3 (green)	SI4321 SI4321	500 mL 1 L	\$11.45 \$19.95
Ψ Sodium Atomic Absorption Standard, 1000 ppm Sodium Carbonate in 2% Nitric Acid; Verified NIST SRM 3152	NA7781 NA7781	100 mL 500 mL	\$13.80 \$37.50
Sodium Acetate, Trihydrate, A.C.S. NaC2H3O2·3H2O F.W. 136.08 CAS 6131-90-4 Assay: 99.0 - 101.0%	SA9570 SA9570	500g 2.5 Kg	\$22.00 \$65.00
Sodium Acetate, Anhydrous, A.C.S. NaC2H3O2 F.W. 82.03 CAS 127-09-3 Assay: 99.0% min.	SA9571 SA9571	500g 2.5 Kg	\$32.00 \$96.00
Sodium Bicarbonate, Powder, USP/NF NaHCO3 F.W. 84.01 CAS 144-55-8 Assay: 99.0 - 100.5% [Baking Soda]	SB9377 SB9377	500g 2.5 Kg	\$15.00 \$40.00
Sodium Bisulfite, Granular, A.C.S. NaHSO3 F.W. 104.06 CAS 7631-90-5 Assay: (SO2) 58.5% min. This product consists of varying proportions of Sodium Bisulfite and Sodium Metabisulfite, Na2S2O5.	SB9387 SB9387	500g 2.5 Kg	\$18.90 \$54.00

Sodium Borate, Decahydrate, A.C.S.	SB9598	500g	\$16.75
Na ₂ B ₄ O ₇ ·10H ₂ O F.W. 381.37 CAS 1303-96-4 Assay: 99.5 - 105.0%	SB9598	2.5 Kg	\$55.00
[Borax; Sodium Tetraborate] pH of a 0.01 M solution @ 25°C is in the range 9.15 to 9.20			
Sodium Carbonate, Anhydrous, A.C.S.	SA9580	500g	\$18.90
Na ₂ CO ₃ F.W. 105.99 CAS 497-19-8 Assay: 99.5% min. Hygroscopic	SA9580	2.5 Kg	\$54.95
Sodium Carbonate, Technical Grade	SC9427	500g	\$13.75
Na ₂ CO ₃ F.W. 105.99 CAS 497-19-8 Hygroscopic	SC9427	2.5 Kg	\$35.15
Sodium Carbonate, 20% (w/v) Solution	SC6820	1 L	\$18.50
For Phenolics in wine and must by the Colorimetric Method.	SC6820	3.8 L	\$38.00
Sodium Chloride, Crystal, A.C.S.	SC9590	500g	\$15.95
NaCl F.W. 58.44 CAS 7647-14-5 Assay: 99.0% min. [Salt]	SC9590	2.5 Kg	\$46.10
Ψ Sodium Chromate, Tetrahydrate, A.C.S.	SC9592	500g	\$36.20
Na ₂ CrO ₄ ·4H ₂ O F.W. 234.06 CAS 10034-82-9 Assay: 99.0% min. [Disodium Chromate]	SC9592	2.5 Kg	\$140.00
Ψ Sodium Dichromate, Dihydrate, A.C.S.	SD9593	500g	\$47.00
Na ₂ Cr ₂ O ₇ ·2H ₂ O F.W. 298.00 CAS 7789-12-0 Assay: 99.5% min. [Sodium Dichromate]	SD9593	2.5 Kg	\$150.00
Sodium Hydroxide, 0.01 N Aqueous	SH1130	1 L	\$10.50
0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)	SH1130	3.8 L	\$20.90
	SH1130	4 x 3.8 L	\$48.10
	SH1130	20 L	\$52.50
Sodium Hydroxide, 0.0167 N Aqueous	SH1167	1 L	\$10.50
For Volatile Acidity in wine.	SH1167	3.8 L	\$20.90
	SH1167	4 x 3.8 L	\$48.10
Sodium Hydroxide, 0.02 N Aqueous	SH1140	1 L	\$10.50
0.0200 N ± 0.0005 N (0.0195 - 0.0205 N)	SH1140	3.8 L	\$20.90
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1140	4 x 3.8 L	\$48.10
	SH1140	20 L	\$58.50
Sodium Hydroxide, 0.05 N Aqueous	SH1150	1 L	\$10.50
0.0500 N ± 0.0005 N (0.0495 - 0.0505 N)	SH1150	3.8 L	\$20.90
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1150	20 L	\$58.50
Sodium Hydroxide, 0.0667 N Aqueous	SH1667	1 L	\$10.50
For Total Titratable Acidity in wine. AOAC 962.12	SH1667	3.8 L	\$20.90
	SH1667	4 x 3.8 L	\$48.10
Sodium Hydroxide, 0.10 N Aqueous	SH1160	1 L	\$10.50
0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)	SH1160	3.8 L	\$20.90
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1160	4 x 3.8 L	\$48.10
	SH1160	20 L	\$58.50
Sodium Hydroxide, 0.133 N Aqueous	SH1133	1 L	\$10.50
5.32 g of Sodium Hydroxide, Pellets, ACS per Liter of solution.	SH1133	3.8 L	\$20.90
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1133	4 x 3.8 L	\$48.10
Sodium Hydroxide, 0.2 N (N/5) Aqueous	SH1155	1 L	\$10.50
8 grams Sodium Hydroxide per Liter of solution; 0.2000 N ± 0.0005 N.	SH1155	3.8 L	\$20.90
	SH1155	4 x 3.8 L	\$48.10
Sodium Hydroxide, 0.25 N Aqueous	SH1170	1 L	\$10.50
0.2500 N ± 0.0005 N (0.2495 - 0.2505 N)	SH1170	3.8 L	\$20.90
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1170	4 x 3.8 L	\$48.10
	SH1170	20 L	\$58.50
Ψ Sodium Hydroxide, 1.0 N Aqueous	SH1180	1 L	\$10.50
1.000 N ± 0.005 N (0.995 - 1.005 N)	SH1180	3.8 L	\$20.90
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1180	4 x 3.8 L	\$48.10
	SH1180	20 L	\$58.50

Ψ - Hazardous material shipping charges apply to products marked with Ψ.

Ψ Sodium Hydroxide, 3.0 N Aqueous	SH1185	1 L	\$10.50
3.00 N ± 0.05 N (3.95 - 3.05 N)	SH1185	3.8 L	\$33.00
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1185	4 x 3.8 L	\$75.90
	SH1185	20 L	\$92.40
Ψ Sodium Hydroxide, 5.0 N Aqueous	SH1190	1 L	\$13.60
5.00 N ± 0.05 N (4.95 - 5.05 N)	SH1190	3.8 L	\$39.50
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1190	4 x 3.8 L	\$90.85
	SH1190	20 L	\$110.60
Ψ Sodium Hydroxide, 6.0 N Aqueous	SH1200	1 L	\$13.60
6.00 N ± 0.05 N (5.95 - 6.05 N)	SH1200	3.8 L	\$39.50
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1200	4 x 3.8 L	\$90.85
	SH1200	20 L	\$110.60
Ψ Sodium Hydroxide, 10.0 N Aqueous	SH1210	1 L	\$13.60
10.00 N ± 0.05 N (9.95 - 10.05 N)	SH1210	3.8 L	\$39.50
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k	SH1210	4 x 3.8 L	\$90.85
	SH1210	20 L	\$110.60
Sodium Hydroxide, 2% (w/v) Aqueous	SH6585	1 L	\$10.50
20 grams Sodium Hydroxide per Liter of solution. ~ 0.5 Molar	SH6585	3.8 L	\$20.90
	SH6585	4 x 3.8 L	\$48.10
	SH6585	20 L	\$58.50
Sodium Hydroxide, 3% (w/v) Aqueous [CalTrans Test 213]	SH6117	1 L	\$10.50
30 grams Sodium Hydroxide per Liter of solution ~ 0.75 Molar (Method of Test for Organic Impurities in Concrete Sand)	SH6117	3.8 L	\$20.90
Ψ Sodium Hydroxide, 5% (w/v) Aqueous	SH6530	1 L	\$10.50
50 grams Sodium Hydroxide per Liter of solution. ~ 1.25 Molar	SH6530	3.8 L	\$20.90
	SH6530	4 x 3.8 L	\$48.10
	SH6530	20 L	\$52.50
Ψ Sodium Hydroxide, 10% (w/v) Aqueous	SH6595	1 L	\$10.50
100 grams Sodium Hydroxide per liter of solution. ~ 2.5 Molar	SH6595	3.8 L	\$20.90
	SH6595	20 L	\$52.50
Ψ Sodium Hydroxide, 17.5% (w/v) Aqueous	SH6550	1 L	\$13.60
175 grams of Sodium Hydroxide per Liter of solution.	SH6550	3.8 L	\$39.50
4.375 N ± 0.0438 N (± 1% by weight)	SH6550	10 L	\$57.50
	SH6550	20 L	\$87.10
Ψ Sodium Hydroxide, 20% (w/v) Aqueous	SH6720	1 L	\$13.60
200 g Sodium Hydroxide per Liter of solution. 5 N	SH6720	3.8 L	\$39.50
	SH6720	4 x 3.8 L	\$90.85
Ψ Sodium Hydroxide, 30% (w/w), Technical Grade	SH6530	3.8 L	\$20.00
9.958 Molar (Normal) density (d) 1.3277 g/mL	SH6530	4 x 3.8 L	\$46.00
	SH6530	20 L	\$60.00
Ψ Sodium Hydroxide, 40% (w/v) Aqueous Solution	SH6170	3.8 L	\$39.50
400 g Sodium Hydroxide per Liter of solution. For Kjeldahl Nitrogen. 10 N	SH6170	4 x 3.8 L	\$90.85
	SH6170	20 L	\$110.00
Ψ Sodium Hydroxide, 50% (w/v)	SH6180	3.8 L	\$39.50
500 g Sodium Hydroxide per Liter of solution. 12.5 N	SH6180	4 x 3.8 L	\$90.85
	SH6180	20 L	\$110.00
Ψ Sodium Hydroxide, 50% (w/w) Technical	SH9150	1 L	\$12.15
Approximately 19 N, ~763 g Sodium Hydroxide per Liter (76.3% w/v) d 1.53	SH9150	3.8 L	\$23.10
Difference between 50% (w/w) and 50% (w/v) is 263 grams of Sodium Hydroxide!	SH9150	4 x 3.8 L	\$53.15
Ψ Sodium Hydroxide, Pellets, A.C.S.	SH9595	500g	\$19.00
NaOH F.W. 40.00 CAS 1310-73-2 Assay: 97.0% min. [Caustic Soda]	SH9595	2.5 Kg	\$56.00
Ψ Sodium Hypochlorite Solution, 5% Available Chlorine	SH9438	1 L	\$8.20
NaOCl F.W. 74.44 d 1.097 CAS 7681-52-9 contains ~ 2.5% NaOH	SH9438	3.8 L	\$19.00
Sodium Phosphate, Dibasic, Anhydrous, A.C.S.	SP9515	500g	\$26.00
Na ₂ HPO ₄ F.W. 141.96 CAS 7558-79-4 Assay: 99.0% min. [Disodium Hydrogen Phosphate]	SP9515	2.5 Kg	\$74.50
Sodium Salicylate, Crystal, Reagent	SS9482	500 g	\$48.25
C ₇ H ₅ NaO ₃ F.W. 160.10 CAS 54-21-7 Assay: 99.0% min. [2-Hydroxybenzoic Acid Sodium Salt]	SS9482	2.5 kg	\$130.25

Sodium Sulfate, Anhydrous, A.C.S.	SS9525	500g	\$16.50
Na ₂ SO ₄ F.W. 142.04 CAS 7757-82-6 Assay: 99.0% min. Hygroscopic	SS9525	2.5 Kg	\$45.60
Sodium Sulfate, Anhydrous, Technical	SS9425	500 g	\$13.50
Na ₂ SO ₄ F.W. 142.04 CAS 7757-82-6 Assay: 99.0% min. Hygroscopic	SS9425	2.5 kg	\$36.45
Sodium Sulfate, Saturated, Solution [CalTrans Test 214]	SS6136	1 L	\$25.45
281 g Sodium Sulfate per Liter at 20°C (Method of Test For The Soundness of Aggregates)	SS6136	3.8 L	\$58.55
Sodium Sulfite, Anhydrous, A.C.S.	SS9535	500g	\$18.50
Na ₂ SO ₃ F.W. 126.04 CAS 7757-83-7 Assay: 98.0% min. Moisture Sensitive	SS9535	2.5 Kg	\$52.75
Sodium Sulfite, Technical	SS9543	500 g	\$13.85
Na ₂ SO ₃ F.W. 126.04 CAS 7757-83-7 Assay: 98.0% min. Moisture Sensitive	SS9543	2.5 kg	\$41.25
Sodium Sulfite, 1.0 Molar Aqueous	SS1911	1 L	\$14.25
126.04 grams of Sodium Sulfite, Anhydrous, A.C.S. per Liter of solution for dechlorination.	SS1911	3.8 L	\$28.00
Sodium Thiosulfate, 0.01 N Aqueous	ST1220	500 mL	\$10.10
0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)	ST1220	1 L	\$13.00
Standardized with Potassium Dichromate, NIST SRM 136e	ST1220	3.8 L	\$23.00
Sodium Thiosulfate, 0.025 N Aqueous	ST1230	500 mL	\$10.10
0.0250 N ± 0.0005 N (0.0245 - 0.0255 N)	ST1230	1 L	\$13.00
Standardized with Potassium Dichromate, NIST SRM 136e	ST1230	3.8 L	\$23.00
Sodium Thiosulfate, 0.0375 N Aqueous	ST1240	500 mL	\$10.10
0.0375 N ± 0.0005 N (0.0370 - 0.0380 N)	ST1240	1 L	\$13.00
Standardized with Potassium Dichromate, NIST SRM 136e	ST1240	3.8 L	\$23.00
Sodium Thiosulfate, 0.1 N Aqueous	ST1250	500 mL	\$10.10
0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)	ST1250	1 L	\$13.00
Standardized with Potassium Dichromate, NIST SRM 136e	ST1250	3.8 L	\$23.00
	ST1250	4 x 3.8 L	\$52.90
Sodium Thiosulfate, 1.0 N Aqueous	ST1260	500 mL	\$16.00
1.000 N ± 0.005 N (0.995 - 1.005 N)	ST1260	1 L	\$23.00
Standardized with Potassium Dichromate, NIST SRM 136e	ST1260	3.8 L	\$60.60
Sodium Thiosulfate, Pentahydrate, A.C.S.	ST9545	500g	\$16.00
Na ₂ S ₂ O ₃ ·5H ₂ O F.W. 248.19 CAS 10102-17-7 Assay: 99.5 - 101.0% [Sodium Hyposulfite]	ST9545	2.5 Kg	\$44.75
	ST9545	5 kg	\$67.15
	ST9545	12 kg	\$100.50
Starch, Soluble, Powder, A.C.S.	ST9585	500g	\$28.15
(C ₆ H ₁₀ O ₅) _n CAS 9005-84-9 Suitable for Iodometry.	ST9585	2.5Kg	\$100.50
Starch Indicator, 1% (w/v) Aqueous Solution	SI4990	500 mL	\$10.85
Contains Thymol as a preservative!	SI4990	1 L	\$14.10
	SI4990	3.8 L	\$32.45
Strontium Atomic Absorption Standard, 1000 ppm	SR7782	100 mL	\$13.80
Strontium Carbonate in 2% Nitric Acid; Verified NIST SRM 3153	SR7782	500 mL	\$37.50
Sulfuric Acid, 0.02 N Aqueous	SA1270	1 L	\$9.90
0.0200 N ± 0.0005 N (0.0195 - 0.0205 N)	SA1270	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1270	4 x 3.8 L	\$46.50
Sulfuric Acid, 0.04 N Aqueous	SA1275	1 L	\$9.90
0.0400 N ± 0.0005 N (0.0395 - 0.0405 N) For APHA Nitrogen as Ammonia (ASTM D-3327).	SA1275	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1275	4 x 3.8 L	\$46.50
Sulfuric Acid, 0.1 N Aqueous	SA1290	1 L	\$9.90
0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)	SA1290	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1290	4 x 3.8 L	\$46.50
Sulfuric Acid, 0.2 N Aqueous	SA1300	1 L	\$9.90
0.2000 N ± 0.0005 N (0.1995 - 0.2005 N)	SA1300	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1300	4 x 3.8 L	\$46.50

Sulfuric Acid, 0.5 N Aqueous	SA1310	1 L	\$9.90
0.5000 N ± 0.0005 N (0.4995 - 0.5005 N)	SA1310	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1310	4 x 3.8 L	\$46.50
Sulfuric Acid, 1.0 N Aqueous	SA1320	1 L	\$9.90
1.000 N ± 0.005 N (0.995 - 1.005 N)	SA1320	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1320	4 x 3.8 L	\$46.50
Ψ Sulfuric Acid, 2.0 N Aqueous	SA1330	1 L	\$9.90
2.000 N ± 0.005 N (1.995 - 2.005 N)	SA1330	3.8 L	\$20.25
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1330	4 x 3.8 L	\$46.50
Ψ Sulfuric Acid, 5.0 N Aqueous	SA1340	1 L	\$15.50
5.000 N ± 0.005 N (4.995 - 5.005 N)	SA1340	3.8 L	\$45.50
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1340	4 x 3.8 L	\$104.65
Ψ Sulfuric Acid, 5.25 N Aqueous	SA1350	1 L	\$15.50
5.250 ± 0.005 N (5.245 - 5.255 N)	SA1350	3.8 L	\$45.50
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1350	4 x 3.8 L	\$104.65
Ψ Sulfuric Acid, 10.0 N Aqueous	SA1360	1 L	\$15.50
10.00 N ± 0.05 N (9.95 - 10.05 N)	SA1360	3.8 L	\$45.50
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1360	4 x 3.8 L	\$104.65
Ψ Sulfuric Acid, 19.2 N Aqueous	SA1370	1 L	\$15.50
19.20 N ± 0.05 N (19.15 - 19.25 N)	SA1370	3.8 L	\$45.50
Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate	SA1370	4 x 3.8 L	\$104.65
Sulfuric Acid, 10% (w/w) Aqueous	SA6610	1 L	\$12.60
1.087 M = 2.174 N d 1.0661	SA6610	3.8 L	\$29.00
Ψ Sulfuric Acid, 25% (v/v), (1 + 3) Aqueous	GC6284	1 L	\$20.30
M = N This aqueous solution is about 9 N and is equivalent to Gold Coast Solution 4.	GC6284	3.8 L	\$45.90
	GC6284	4 x 3.8 L	\$104.65
	GC6284	10 L	\$70.10
	GC6284	20 L	\$105.00
Ψ Sulfuric Acid, 18% (w/w) Aqueous	SA6813	3.8 L	\$29.00
2.064 Molar = 4.128 N d 1.1245	SA6813	4 x 3.8 L	\$66.70
Ψ Sulfuric Acid, 30% (w/w) Aqueous	SA6482	1 L	\$15.10
3.729 M = 7.458 N d 1.2191	SA6482	3.8 L	\$29.00
	SA6482	4 x 3.8 L	\$66.70
Sulfuric Acid, 36% (w/w) Aqueous	SA9436	1 L	\$15.10
4.656 M = 9.312 N d 1.2685	SA9436	3.8 L	\$29.00
	SA9436	4 x 3.8 L	\$66.70
Sulfuric Acid, 40% (w/w) Aqueous	SA6488	1 L	\$15.10
5.313 M = 10.626 N d 1.3028	SA6488	3.8 L	\$29.00
	SA6488	4 x 3.8 L	\$66.70
Ψ Sulfuric Acid, 50% (w/w) Aqueous	SA6483	1 L	\$15.10
7.113 M = 14.226 N d 1.3952	SA6483	3.8 L	\$29.00
	SA6483	4 x 3.8 L	\$66.70
Ψ Sulfuric Acid, A.C.S.	SA9090	500 mL	\$16.80
H ₂ SO ₄ F.W. 98.08 d 1.840 CAS 7664-93-9 Assay: 95.0 - 98.0% [Oil of Vitriol]	SA9090	2.5 L	\$30.00
M = 2 N; concentrated Sulfuric Acid is about 36 N; DEA list 2 chemical.	SA9090	3.8 L	\$36.25
	SA9090	4 x 3.8 L	\$83.35
Ψ Sulfuric Acid, 66° Baume	SA9233	1 L	\$15.40
H ₂ SO ₄ F.W. 98.08 d 1.820 CAS 7664-93-9 Assay: 91.0 - 95.0% [Oil of Vitriol]	SA9233	3.8 L	\$20.00
DEA list 2 chemical; approx. 93% (w/w)	SA9233	4 x 3.8 L	\$56.00
Thorium Nitrate, 0.0005 Molar Aqueous	TN1305	1 L	\$50.00
Th(NO ₃) ₄ ·4H ₂ O F.W. 552.12 CAS 13470-07-0 For Fluoride by titration.	TN1305	3.8 L	\$115.00
Ψ Tin Atomic Absorption Standard, 1000 ppm	SN7783	100 mL	\$13.80
Tin shot in 20% Hydrochloric Acid; Verified NIST SRM 3161	SN7783	500 mL	\$37.50

Total Ionic Strength Adjustment Buffer (TISAB II)	TI2140	1 L	\$26.10
For Fluoride Ion-specific electrode (ISE) contains 1, 2-Cyclohexylenediaminetetraacetic Acid (CDTA).	TI2140	3.8 L	\$60.10
	TI2140	20 L	\$145.80
Ψ - Hazardous material shipping charges apply to products marked with Ψ.			
Tungsten Atomic Absorption Standard, 1000 ppm	W7784	100 mL	\$13.80
Sodium Tungstate in water; Verified NIST SRM 3163	W7784	500 mL	\$37.50
Urea, A.C.S.	UR9409	500g	\$15.80
CH4N2O F.W. 60.06 CAS 57-13-6 Assay: 99.0 - 100.5% [Carbamide; Carbonyl Diamide]	UR9409	2.5 Kg	\$43.90
Ψ Xylenes, Laboratory Grade	XY9295	3.8 L	\$30.40
C8H10 F.W. 106.17 d 0.860 CAS 1330-20-7 [Dimethylbenzenes; Xylol]	XY9295	4 x 3.8 L	\$84.00
This reagent is a mixture of ortho-, meta-, and para- isomers and may contain ethylbenzene			
Ψ Zinc Atomic Absorption Standard, 1000 ppm	ZN7784	100 mL	\$13.80
Zinc Carbonate in 2% Nitric Acid; Verified NIST SRM 3168	ZN7784	500 mL	\$37.50
Zinc Sulfate, Heptahydrate, A.C.S.	ZS9587	500g	\$21.35
ZnSO4 · 7H2O F.W. 287.56 CAS 7446-20-0 Assay: 99.0 - 103.0% Hygroscopic	ZS9587	2.5 Kg	\$59.25
Ψ Zirconium Atomic Absorption Standard, 1000 ppm	ZR7786	100 mL	\$13.80
Zirconyl Nitrate in 10% Nitric Acid; Verified NIST SRM 3169	ZR7786	500 mL	\$37.50

Legend:

ACS - American Chemical Society
 AOAC - Association of Official Analytical Chemists
 APHA - American Public Health Association
 ASTM - American Society for Testing and Materials
 BOD - Biochemical Oxygen Demand
 CAS - Chemical Abstract Service Registry Number
 C - Degrees Centigrade or Celsius (1.8 x °F +32)
 COD - Chemical Oxygen Demand
 d - Density, grams per milliliter
 DEA - Drug Enforcement Agency
 EDTA - Ethylenediaminetetraacetic Acid (Ethylenedinitrilotetraacetic Acid)
 F.W. - Formula Weight
 g - grams
 kg - kilograms (1000 grams = 2.2 pounds)
 l - Levorotatory (rotates linearly polarized light to the left or in a counter-clockwise direction)
 L - Liter (1000 mL = 1000 cubic centimeters ~ 1.0568 quarts)
 μS/cm - MicroSiemens per centimeter or micromhos per centimeter (unit of conductivity)
 m - Molal or gram-moles of solute per kg of water
 M - Molar or gram-molecular weight of solute per liter of solution
 N - Normal or gram-equivalent weight of solute per liter of solution
 NIST - National Institute of Standards and Technology (formerly National Bureau of Standards)
 ppb - parts per billion = μg per kg (μg/L approximately)
 ppm - parts per million = mg per kg (mg/L approximately).
 SRM - Standard Reference Material.
 TOC - Total Organic Carbon
 USP - United States Pharmacopeia
 v/v - volume solute per volume of solution
 w/v - weight of solute per volume of solution
 w/w - weight of solute per weight of solution