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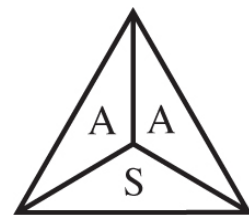
Catalog 2009

Edition Six

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www.acmeas.com



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Ψ Acetate Buffer Solution, pH 4.0

For Residual Chlorine, American Public Health Association (APHA) 4500-C1 C.
Iodometric Method II

Meets American Society for Testing and Materials (ASTM) D-1427 specifications).

AB2005	500 mL	\$16.75
AB2005	1 L	\$17.80
AB2005	3.8 L	\$22.20
AB2005	4 x 3.8 L	\$80.05
AB2005	10 L	\$48.85
AB2005	20 L	\$93.80

Ψ Acetate Buffer Solution, pH 4.2

Acetic Acid - Acetate Anion Buffer

contains Acetic Acid, Glacial and Sodium Acetate, Trihydrate in de-ionized water.

AB2005	500 mL	\$16.75
AB2005	1 L	\$17.80
AB2005	3.8 L	\$22.20
AB2005	4 x 3.8 L	\$80.05
AB2005	10 L	\$48.85
AB2005	20 L	\$93.80

Ψ Acetic Acid, Glacial, A.C.S.

CH₃COOH F.W. 60.05 Density (d) = 1.053 g/mL CAS 64-19-7 Assay: 99.7% min.

Molarity 17.4 M, [Vinegar Acid]

Hygroscopic

AA9010	500 mL	\$15.15
AA9010	1 L	\$19.70
AA9010	2.5 L	\$35.80
AA9010	3.8 L	\$41.55
AA9010	4 x 3.8 L	\$113.95

Ψ Acetic Acid, Glacial, Technical Grade

CH₃COOH F.W. 60.05 d = 1.053 g/mL CAS 64-19-7 Assay: 99.0% min.

Molarity 17.4 M, [Vinegar Acid] Hygroscopic

AA9410	500 mL	\$13.60
AA9410	2.5 L	\$25.75
AA9410	3.8 L	\$31.25
AA9410	4 x 3.8 L	\$87.95
AA9410	10 L	\$57.55
AA9410	20 L	\$110.40

Acetic Acid, 5% (w/v) Aqueous Solution

0.8326 Molar

AA6535	1 L	\$15.20
AA6535	3.8 L	\$34.95
AA6535	4 x 3.8 L	\$80.40

Acetic Acid, 10% (w/w) Aqueous Solution

1.685 Molar d 1.0121 g/mL

AA6210	1 L	\$17.95
AA6210	3.8 L	\$39.85
AA6210	4 x 3.8 L	\$91.60

Ψ Acetic Acid, 46% (v/v) Technical Grade

Aqueous Solution prepared from 460 mL of glacial diluted to 1 Liter

AA9480	3.8 L	\$22.45
AA9480	4 x 3.8 L	\$65.20

Acetic Acid Standard, 100 ppm

100 mg/L (100 ppm) in 10% (v/v) Ethanol

AA7500	100 mL	\$16.85
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Acetic Acid Standard, 250 ppm

250 mg/L (250 ppm) in 10% (v/v) Ethanol

AA7510	100 mL	\$16.85
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Acetic Acid Standard, 300 ppm

300 mg/L (300 ppm) in 10% (v/v) Ethanol

AA7520	100 mL	\$16.85
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Acetic Acid Standard, 500 ppm

500 mg/L (500 ppm) in 10% (v/v) Ethanol

AA7530 100 mL \$16.85

Acetic Acid Standard, 750 ppm

750 mg/L (750 ppm) in 10% (v/v) Ethanol

AA7540 100 mL \$16.85

Acetic Acid Standard, 800 ppm

800 mg/L (800 ppm) in 10% (v/v) Ethanol

AA7550 100 mL \$16.85

Acetic Acid Standard, 1000 ppm

1000 mg/L (1000 ppm) in 10% (v/v) Ethanol

AA7560 100 mL \$16.85

Acetic Acid Standard, 1200 ppm

1200 mg/L (1200 ppm) in 10% (v/v) Ethanol

AA7570 100 mL \$16.85

Acetic Acid Standard, 2500 ppm

2500 mg/L (2500 ppm) in 10% (v/v) Ethanol

AA7580 100 mL \$16.85

Ψ Acetone, A.C.S.

CH₃COCH₃ F.W. 58.08 d = 0.788 CAS 67-64-1 Assay: 99.5% min.

[2-Propanone; Dimethyl Ketone] Flammable, DEA list 2 chemical.

AC9020 500 mL \$21.75

AC9020 1 L \$29.95

AC9020 3.8 L \$41.75

AC9020 4 x 3.8 L \$124.75

Ψ Acetone, Technical Grade

CH₃COCH₃ F.W. 58.08 d = 0.788 g/mL CAS 67-64-1

[2-Propanone; Dimethyl Ketone] Flammable, DEA list 2 chemical.

AC9420 500 mL \$18.90

AC9420 1 L \$21.00

AC9420 3.8 L \$26.30

AC9420 4 x 3.8 L \$78.85

AC9420 20 L \$99.50

Acetone, 10% (v/v) Aqueous

Acetone, Semiconductor Grade (Class 10) dissolved in de-ionized Water.

AO6258 3.8 L \$16.60

AO6258 4 x 3.8 L \$48.70

Ψ Alcohol, Denatured, Reagent, A.C.S.

CH₃CH₂OH F.W. 46.07d = 0.785 CAS 64-17-5 Assay: Methanol and Ethanol 94.0 - 96.0% v/v
Contains SDA 3A 100 parts and about 5parts Isopropyl Alcohol. Isopropanol: 4.0 - 6.0% v/v

AD9100 1 L \$42.70

AD9100 3.8 L \$103.25

AD9100 4 x 3.8 L \$336.00

Ψ Aluminum Atomic Absorption Standard, 1000 ppm

Aluminum in 2% Nitric Acid; Verified National Institute of Standards and Technology (NIST)
Standard Reference Material (SRM), 3101.

AL7700 100 mL \$15.45

AL7700 500 mL \$42.15

Aluminum Chloride, 0.01 Molar Aqueous Solution

AlCl₃-6H₂O F.W. 241.43 CAS 7784-13-6

AC1131 500 mL \$17.45

AC1131 1 L \$23.85

Aluminum Chloride, Hexahydrate, Reagent

AlCl₃-6H₂O F.W. 241.43 CAS 7784-13-6

AC9547 100 g \$26.05

AC9547 500 g \$80.25

Ammonium Acetate, Crystal, A.C.S.

NH₄C₂H₃O₂ F.W. 77.08 CAS 631-61-8

Assay: 97% min.

AA9599 500 g \$26.05

AA9599 2.5 kg \$76.95

Ammonium Chloride, A.C.S.

NH₄Cl F.W. 53.49 CAS 12125-02-9

Assay: 99.5% min. [Sal Ammoniac]

AC9500 500g \$18.55

AC9500 2.5Kg \$58.15

Ammonium Chloride, Technical

NH₄Cl F.W. 53.49 CAS 12125-02-9 Assay: 99.5% min. Untreated (No anti-caking agent)

AC9487 500 g \$15.75

AC9487 2.5 kg \$49.35

Ψ Ammonium Chloride Buffer, pH 9.5

Ammonium Chloride-Ammonium Hydroxide

AC2150 1 L \$18.55

AC2150 3.8 L \$34.30

Ψ Ammonium Chloride Buffer, pH 10

Ammonium Chloride -Ammonium Hydroxide used as buffer for EDTA Titrations.

AC2160 1 L \$19.65

AC2160 3.8 L \$36.50

AC2160 4 x 3.8 L \$84.00

Ammonium Hydroxide, 3% (v/v) Solution

30 mL of Ammonium Hydroxide, ACS in 970 mL of de-ionized water.

AH6010 500 mL \$17.25

AH6010 1 L \$22.40

Ψ Ammonium Hydroxide, 25% (v/v) Solution, (1 + 3)

One volume of A.C.S. Aqueous Ammonia, 28% (w/w) to three volumes of de-ionized Water.

AH6829 500 mL \$16.30

AH6829 1 L \$21.15

AH6829 3.8 L \$33.70

Ψ Ammonium Hydroxide, 50% (v/v) Aqueous

One volume Ammonium Hydroxide, ACS to an equal volume of water.

AH6827 1 L \$14.60

AH6827 3.8 L \$33.70

Ψ Ammonium Hydroxide, A.C.S.

NH₄OH F.W. 35.05 d 0.898 CAS 1336-21-6 Assay: 28.0 - 30.0% as NH₃

[Aqueous Ammonia; Strong Ammonia Solution] Corrosive.

AH9030 500 mL \$16.95

AH9030 2.5 L \$29.00

AH9030 3.8 L \$32.40

AH9030 4 x 3.8 L \$95.70

Ammonium Oxalate, Monohydrate, A.C.S.

(COONH₂)₂·H₂O F.W. 142.11 CAS 6009-70-7 Assay: Not less than 99.0 nor more than 101.0% [Ethanedioic Acid, Diammonium Salt Monohydrate]

AO9596	100 g	\$23.00
AO9596	500 g	\$59.90
AO9596	2.5 kg	\$148.20

Ψ Ammonium Persulfate, Crystal, A.C.S.

(NH₄)₂S₂O₈ F.W. 228.19 CAS 7727-54-0 Assay: 98.0% min. [Ammonium Peroxydisulfate]
Moisture-Sensitive. Oxidizer.

AP9502	500 g	\$21.75
AP9502	2.5 Kg	\$44.20
AP9502	5 kg	\$66.30
AP9502	12 kg	\$154.75

Ammonium Sulfate A.C.S.

(NH₄)₂SO₄ F.W. 132.14 CAS 7783-20-2 Assay: 99.0% min.

AS9600	500 g	\$42.15
AS9600	2.5 kg	\$113.80

Ammonium Thiocyanate, A.C.S.

NH₄SCN F.W. 76.12 CAS 1762-95-4

AT9571	500g	\$58.30
AT9571	1 kg	\$95.65

Ammonium Thiocyanate, 0.01 N Aqueous

0.0100 N ± 0.0005 N (0.0095 - 0.0105 N) NH₄SCN

AT1011	1 L	\$20.70
AT1011	3.8 L	\$40.45

Ammonium Thiocyanate, 0.1 N Aqueous

AT1012	1 L	\$20.70
AT1012	3.8 L	\$40.45

Anti-Foam B

10% Emulsion of Anti-Foam A (100% mixture of Polydimethylsiloxanes of various molecular weights) in distilled or de-ionized water.

AF6230	60 mL	\$11.25
AF6230	120 mL	\$16.85
AF6230	500 mL	\$24.70
AF6230	1 L	\$33.70

Antimony Atomic Absorption Standard, 1000 ppm

Antimony Potassium Tartrate in de-ionized Water; Verified NIST SRM 3102

SB7710	100 mL	\$15.50
SB7710	500 mL	\$42.15

Ascorbic Acid, Powder, USP

$C_6H_8O_6$ F.W. 176.13 CAS 50-81-7 Assay: 99.0 - 100.5% [Vitamin C; L-Ascorbic Acid]

AA9503	500g	\$49.00
AA9503	1 kg	\$88.25

Ψ Barium Atomic Absorption Standard, 1000 ppm

Barium Carbonate in 2% Nitric Acid; Verified NIST SRM 3104

BA7720	100 mL	\$15.50
BA7720	500 mL	\$42.15

Ψ Barium Chloride, Dihydrate, A.C.S.

$BaCl_2 \cdot 2H_2O$ F.W. 244.26 CAS 10326-27-9 Assay: 99.0%

BC9610	500g	\$28.60
BC9610	2.5Kg	\$102.20

Barium Chloride, 10% (w/v) Solution

For Sulfate, APHA 4500-SO₄ C. Gravimetric Method

BC6030	1 L	\$23.60
BC6030	3.8 L	\$40.45

Barium Diphenylamine Sulfonate, 0.1% (w/v)

Redox Indicator for Iron (II) Titrations; Electrochemical Transition Potential of + 0.83 V color changes from Green - Violet.

BD4380	100 mL	\$11.70
BD4380	500 mL	\$25.90
BD4380	1 L	\$39.20

Barium Hydroxide, Octahydrate, A.C.S.

Ba(OH)₂·8H₂O F.W. 315.464 CAS 12230-71-6 Assay: Not less than 98.0%
[Baryta] Each mL of 1N Hydrochloric Acid corresponds to 0.1577 g of Ba(OH)₂·8H₂O

BH9527	100 g	\$16.55
BH9527	500 g	\$38.05

Barium Hydroxide, Saturated, Aqueous Solution

BH6831	1 L	\$19.70
BH6831	3.8 L	\$45.30

Basic Fuchsin, 0.2% (w/v) Aqueous Solution

pH 1.2 (purple) to pH 3.0 (red) [C.I. 42500; Basic Red 9]

BF4121	100 mL	\$19.25
BF4121	500 mL	\$28.83

Borate Buffer Solution, pH 9.5

Sodium Borate and Sodium Hydroxide solution. For Nitrogen (Ammonia) APHA 4500-NH₃

BB2020	1 L	\$43.25
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Boric Acid, Crystal, A.C.S.

H₃BO₃ F.W. 61.83 CAS 10043-35-3 Assay: 99.5% min. [orthoBoric; Boracic Acid]

BA9504	500g	\$24.45
BA9504	2.5Kg	\$96.05

Boric Acid, Technical Grade

H₃BO₃ F.W. 61.83 CAS 10043-35-3

BA9440	500g	\$16.25
BA9440	2.5Kg	\$60.45

Boric Acid Solution, 45 g/L

For increasing the concentration of boric acid in plating baths quickly since solid Boric Acid dissolves slowly at room temperature.

BA6921	1 L	\$15.00
BA6921	3.8 L	\$31.25

Boric Acid Solution, 2% (w/v) Indicator solution

For Nitrogen (Ammonia), APHA 4500 - NH₃ E. Titrimetric Method.
Methyl Red-Methylene Blue.

BA6040	500ml	\$27.50
BA6040	1 L	\$39.30
BA6040	3.8 L	\$90.45

Boric Acid Solution, 0.25 Molar

Aqueous Solution containing 15.4575 g of Boric Acid per Liter of solution.

BA6545	1 L	\$19.10
BA6545	3.8 L	\$34.80

Boron Atomic Absorption Standard, 1000 ppm

Boric Acid in water; Verified NIST SRM 3107

B7730	100 mL	\$15.50
B7730	500 mL	\$42.15

Bromocresol Green (BCG) Sodium Salt, A.C.S.

C₂₁H₁₃Br₄O₅SNa F.W. 720.00 CAS 62625-32-5

[3', 3'', 5', 5''-Tetrabromo-m-cresolsulphonphthalein Sodium Salt]

BG4444	5 g	\$20.40
BG4444	10 g	\$31.30

Bromocresol Green Indicator Solution, 0.04% (w/v)

pH 3.8 (Yellow) - pH 5.4 (Blue)

BG4010	500 mL	\$15.80
BG4010	1 L	\$18.70
BG4010	3.8 L	\$43.05

Bromocresol Green Indicator Solution, 0.1% (w/v)

pH 3.8 (Yellow) - pH 5.4 (Blue)

BG4020	500 mL	\$16.00
BG4020	1 L	\$18.80
BG4020	3.8 L	\$43.25

Bromocresol Purple (BCP) Indicator Solution, 0.04% (w/v)

pH 5.2 (Yellow) - pH 6.8 (Purple) [5', 5''-Dibromo-o-cresolsulphonphthalein]

BP4030	500 mL	\$19.45
BP4030	1 L	\$25.65
BP4030	3.8 L	\$59.00

Bromophenol Blue (BPB) Sodium Salt, A.C.S.

$C_{19}H_9Br_4O_5SNa$ F.W. 691.97 CAS 62625-28-9 [Tetrabromophenolsulfonphthalein, Sodium Salt]

BP4041	5 g	\$16.85
BP4041	10 g	\$25.85

Bromophenol Blue Indicator Solution, 0.04% (w/v)

pH 3.0 (Yellow) - pH 4.6 (Blue)

BB4040	500 mL	\$15.80
BB4040	1 L	\$18.30
BB4040	3.8 L	\$42.20

Bromothymol Blue (BTB) Sodium Salt, A.C.S.

$C_{27}H_{27}O_5SBr_2Na$ F.W. 646.38 CAS 34722-90-2 pH 6.0 (Yellow) - pH 7.6 (Blue)
[3', 3''-Dibromothymolsulfonphthalein, Sodium]

BT4051	5 g	\$16.85
BT4051	10 g	\$25.85

Bromothymol Blue Indicator Solution, 0.04% (w/v)

pH 6.0 (Yellow) - pH 7.6 (Blue)

BT4050	500 mL	\$16.15
BT4050	1 L	\$19.00
BT4050	3.8 L	\$43.70

Buffered Oxide Etchants (BOE) are silicon dioxide etching solutions formulated from high purity Semiconductor Grade 49% (w/w) Hydrofluoric Acid and high purity 40% (w/w) Ammonium Fluoride. Formulations are available in standard NH_4F : 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

Integral ratio of Ammonium Fluoride, 40% (w/w) and Hydrofluoric Acid, 49% (w/w)

NH_4F Assay: 33.6 - 34.6% HF Assay: 7.08 - 7.38%

BO6546	3.8 L	\$83.15
BO6546	4 x 3.8 L	\$266.05

Ψ Buffered Oxide Etchant, 15:1, Electronic/Cleanroom Grade

NH₄F Assay: 36.9 - 37.9% HF Assay: 9.94 - 10.24%

BO6547	3.8 L	\$80.10
BO6547	4 x 3.8 L	\$256.30

Ψ Buffered Oxide Etchant, 500:1, Electronic/Cleanroom Grade

BO6548	3.8 L	\$80.10
BO6548	4 x 3.8 L	\$256.30

Buffer Standard, pH 2.00 Colorless

Potassium Chloride and Hydrochloric Acid

BS2202	500 mL	\$15.70
BS2202	1 L	\$20.75

Buffer Standard, pH 3.00 Color-coded Purple

Potassium Hydrogen Phthalate – based buffer for Winery Lab use.

BS2300	1 L	\$20.75
BS2300	3.8 L	\$47.80

Buffer Standard, pH 4.01 Color-coded Red

Potassium Hydrogen Phthalate, pH 4.01 ± 0.02 @ 25 C

NIST Traceable Buffer.

pH vs Temperature on label.

BR2030	500 mL	\$9.10
BR2030	1 L	\$13.25
BR2030	3.8 L	\$24.15
BR2030	4 x 3.8 L	\$54.50
BR2030	20 L	\$65.60

Buffer Standard, 4.75 Color-coded Orange

Phthalate-based adjusted with Sodium Hydroxide Solution

BO2475	1 L	\$20.75
BO2475	3.8 L	\$47.80

Buffer Standard, pH 6.864 @ 25 C Colorless

Potassium Phosphate, Monobasic and Sodium Phosphate, Dibasic

NIST Traceable Buffer.

BC2040	500 mL	\$15.70
BC2040	1 L	\$20.75
BC2040	3.8 L	\$47.80

Buffer Standard, pH, 7.00 @ 25 C Color-coded Yellow

Potassium Phosphate, Monobasic - Sodium Hydroxide

pH vs Temperature on label.

BY2050	500 mL	\$9.10
BY2050	1 L	\$13.25
BY2050	3.8 L	\$24.15
BY2050	4 x 3.8 L	\$54.50
BY2050	20L	\$65.60

Buffer Standard, pH 8.0 @ 25° C Colorless

Potassium Phosphate, Monobasic - Sodium Hydroxide

BC2060	500 mL	\$15.70
BC2060	1L	\$20.75

Buffer Standard, pH 9.186 @ 25° C Colorless

Sodium Borate Solution, NIST Traceable Buffer

BU2065	500 mL	\$15.70
BU2065	1 L	\$20.75
BU2065	3.8 L	\$47.80

Buffer Standard, pH 10.00 @ 25° C Color-coded Blue

Sodium Borate - Sodium Hydroxide

pH vs Temperature on label.

BB2070	500 mL	\$9.10
BB2070	1 L	\$13.25
BB2070	3.8 L	\$24.15
BB2070	4 x 3.8 L	\$54.50
BB2070	20 L	\$65.60

Buffer Standard, pH 12.0 @ 25°C

Potassium Chloride-Sodium Hydroxide

BC2012	500 mL	\$15.70
BC2012	1 L	\$20.75
BC2012	3.8 L	\$47.80

Buffer Standard, pH 12.45 @ 25° C

Potassium Chloride-Sodium Hydroxide

BC2080	500 mL	\$12.50
BC2080	1 L	\$19.10
BC2080	3.8 L	\$33.90

Ψ Butanol, Reagent

C₄H₉OH F.W. 74.12 CAS [71-36-3] Assay: 99.9% min.

[1-Butanol; n-Butyl Alcohol] Flammable!

BA9120 500 mL \$38.75

BA9120 1 L \$48.35

Ψ Cadmium Atomic Absorption Standard, 1000 ppm

Cadmium Acetate in 2% Nitric Acid; Verified NIST SRM 3108

CD7740 100 mL \$15.50

CD7740 500 mL \$42.15

Ψ Calcium Atomic Absorption Standard, 1000 ppm

Calcium Carbonate in dilute Hydrochloric Acid; NIST SRM 3109

CA7750 100 mL \$15.50

CA7750 500 mL \$42.15

Calcium Carbonate, Powder, A.C.S.

CaCO₃ F.W. 100.09 CAS 471-34-1 Assay: 99% min. Hygroscopic

CC9620 500g \$28.65

CC9620 2.5Kg \$85.95

Calcium Carbonate, Powder, USP

CaCO₃ F.W. 100.09 CAS [471-34-1] Assay: 98.0 – 100.5% Hygroscopic

CC9505 500g \$20.60

CC9505 2.5Kg \$61.55

Calcium Chloride, 2.75% (w/v) Solution

For Biochemical Oxygen Demand (BOD), APHA 5210 B. 5-Day BOD Test

CC6050 500ml \$20.65

CC6050 3.8 L \$61.20

Calcium Chloride, Anhydrous, Technical Grade

CaCl₂ F.W. 110.98 d = 2.150 CAS 10043-52-4

CC9401 500g \$22.05

CC9401 2.5 Kg \$50.55

CC9401 12.5 Kg \$106.75

Ψ Calcium Chloride, Dihydrate, A.C.S.

CaCl₂·2H₂O F.W. 147.01 CAS 10035-04-8 Assay: 99.0 - 105.0%

CC9506	250g	\$23.35
CC9506	500g	\$41.90
CC9506	2.5 Kg	\$79.05

Ψ Cerium (IV) Sulfate, 0.1 N Solution

0.1000N ± 0.0005 N (0.0995 - 0.1005 N) in Sulfuric Acid, 1 N [Ceric Sulfate]

CS1515	1 L	\$23.60
CS1515	3.8 L	\$61.80
CS1515	4 x 3.8 L	\$142.15

Ψ Cesium Atomic Absorption Standard, 1000 ppm

Cesium Nitrate in 2% Nitric Acid; Verified NIST SRM 3111

CS7760	100 mL	\$15.50
CS7760	500 mL	\$42.15

Ψ Chloroform, A.C.S.

CHCl₃ F.W. 119.38 d 1.492 CAS 67-66-3

Assay: 99.8% Min.

[Trichloromethane]; Light-Sensitive; Toxic Liquid-Keep Away From Food!

Stabilized with Ethanol or mixed Amylenes.

CL9050	500 mL	\$35.95
CL9050	1 L	\$53.95
CL9050	3.8 L	\$107.95
CL9050	4 x 3.8 L	\$314.60

Ψ Chromatography Solvent for Wine Organic Acids

Paper or thin-film chromatography for Malo-Lactic Fermentation by Kunkee Method.

Bromocresol Green Indicator

CS6240	1 L	\$48.10
CS6240	3.8 L	\$121.45

Ψ Chromatography Solvent with Bromophenol Blue (BPB)

Enhanced resolution of organic acids in wine. European formula!

CS6245	500 mL	\$94.40
CS6245	1 L	\$157.30

Chromium Atomic Absorption Standard, 1000 ppm

Potassium Dichromate in de-ionized Water; Verified NIST SRM 3112

CR7770	100 mL	\$15.50
CR7770	500 mL	\$42.15

Citric Acid, Anhydrous, A.C.S.

$C_6H_8O_7$ F.W. 192.13 CAS 77-92-9 Assay: 99.5% Min.

[2-Hydroxy-1,2,3-Propanetricarboxylic Acid]

CA9630	500g	\$23.40
CA9630	2.5Kg	\$76.90
CA9630	5 Kg	\$114.05
CA9630	12 kg	\$269.25

Citric Acid, Anhydrous, Technical

$C_6H_8O_7$ F.W. 192.13 CAS 77-92-9 Assay: 99.5% Min.

[2-Hydroxy-1,2,3-Propanetricarboxylic Acid]

CA9444	500 g	\$19.15
CA9444	2.5 kg	\$51.55
CA9444	12 kg	\$180.50

Ψ Cobalt Atomic Absorption Standard, 1000 ppm

Cobalt Chloride, in dilute Hydrochloric Acid; Verified NIST SRM 3113

CO7780	100 mL	\$15.50
CO7780	500 mL	\$42.15

Conductivity Conversions: m is meter;

μ is micro, μS/cm is microSiemens/centimeter

1milliS/m = 10 μS/cm and 1 μS/cm = 1 μmhos/cm

Conductivity Standard, 10 μS/cm

Dilute solution of Potassium Chloride.

CS7311	500 mL	\$21.90
CS7311	1 L	\$32.00

Conductivity Standard, 46.7 μS/cm

Potassium Chloride Solution, 0.0001 M @ 25.0 C

CS7926	500 mL	\$21.90
CS7926	1 L	\$32.00

Conductivity Standard, 73.9 μ S/cm

Potassium Chloride Solution, 0.0005 M @ 25.0 C

CS7900 500 mL \$21.90

CS7900 1 L \$32.00

Conductivity Standard, 100 μ S/cm

Potassium Chloride Solution

CS7302 500 mL \$21.90

CS7302 1 L \$32.00

Conductivity Standard, 147 μ S/cm

Potassium Chloride Solution, 0.001 M @ 25.0 C

CS7910 500 mL \$21.90

CS7910 1 L \$32.00

Conductivity Standard, 1,000 μ S/cm

Potassium Chloride Solution

CS7917 500 mL \$21.90

CS7917 1 L \$32.00

Conductivity Standard, 1,413 μ S/cm

Potassium Chloride Solution, 0.01 M @ 25.0 C

CS7920 500 mL \$21.90

CS7920 1 L \$32.00

Conductivity Standard, 2,767 μ S/cm

Potassium Chloride Solution, 0.02 M @ 25.0 C

CS7930 500 mL \$21.90

CS7930 1 L \$32.00

Conductivity Standard, 6,668 μ S/cm

Potassium Chloride Solution, 0.05 M @ 25.0 C

CS7940 500 mL \$21.90

CS7940 1 L \$32.00

Conductivity Standard, 12,900 μ S/cm

Potassium Chloride Solution, 0.1 M @ 25.0 C

CS7950 500 mL \$21.90

CS7950 1 L \$32.00

CONDUCTIVITY STANDARDS OF ANY REASONABLE VALUE ARE AVAILABLE-PLEASE INQUIRE.

Acid Copper Sulfate Plating Solutions

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 Plating Solutions

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

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 Copper Atomic Absorption Standard, 1000 ppm

Copper shot in 2% Nitric Acid; Verified NIST SRM 3114

CU7790 100 mL \$15.50

CU7790 500 mL \$42.15

Copper Standard, 1000 mg / L (ppm)

Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.

CS7791 100 mL \$15.50

CS7791 500 mL \$42.15

Copper Sulfate with Hydrochloric Acid

Can Liner Rater solution

CS6822	3.8 L	\$26.40
CS6822	20 L	\$67.40

Copper Sulfate Standard, 0.01 Molar

Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.

CS7801	1 L	\$18.55
CS7801	3.8 L	\$56.20

Copper Sulfate Standard, 0.016 Molar

Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.

CS7802	1 L	\$18.55
CS7802	3.8 L	\$56.20

Copper Sulfate Standard, 0.025 Molar

Cupric Sulfate, Pentahydrate (99.999% metals basis) dissolved in de-ionized water.

CS7803	1 L	\$18.55
CS7803	3.8 L	\$56.20

Copper Sulfate Solution, 2% (w/v)

APHA 4500-NO₃ E, F

ASTM D3867-90 A, B

20 grams of Cupric Sulfate, Pentahydrate dissolved in de-ionized water.

CS6771	1 L	\$10.95
CS6771	3.8 L	\$24.80
CS6771	4 x 3.8 L	\$71.40
CS6771	20 L	\$77.20

Cresol Red, 0.04% (w/v) Aqueous

0.4 g of o-Cresolsulfonphthalein, Sodium Salt in de-ionized water.

CS6771	500 mL	\$13.40
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Cupric Sulfate, Pentahydrate, Fine Crystal, A.C.S.

CuSO₄·5H₂O F.W. 249.69 CAS 7758-99-8 Assay: 98.0 - 102.0% [Copperas]

CS9507	500g	\$28.90
CS9507	2.5 Kg	\$85.95

Deionized Reagent Water, Type III ASTM D-1193

Resistivity: 4.0 MΩ-cm; Total Organic Carbon (TOC): 200 ppb max.
Silica: 500 ppb max.; Chlorides: 10 ppb max.; Sodium: 10 ppb max.

DI7063	1 L	\$8.40
DI7063	3.8 L	\$11.80
DI7063	20 L	\$59.55

Deionized Reagent Water, Type II ASTM D-1193

Resistivity: 1.0 MΩ-cm; Total Organic Carbon (TOC): 50 ppb max.
Silica: 3 ppb max.; Chlorides: 5 ppb max.; Sodium: 5 ppb max.

DI7062	1 L	\$9.55
DI7062	3.8 L	\$14.05
DI7062	20 L	\$78.80

Dextrose, Anhydrous, USP/NF

C₆H₁₂O₆ F.W. 180.20 CAS 50-99-7

Assay: 99.5% min.

[D-Glucose; Corn sugar; Glucose]

DG9310	500g	\$21.90
DG9310	2.5Kg	\$60.10

Ethylenediaminetetraacetic Acid (EDTA) Free Acid, A.C.S.

C₁₀H₁₄N₂O₈ F.W. 292.25 CAS 60-00-4 Assay: 99.4 - 100.6%

[(Ethylenedinitrilo)tetraacetic Acid; Edetic Acid]

EA9597	125g	\$22.50
EA9597	500g	\$55.05
EA9597	2.5Kg	\$137.65

EDTA, Disodium, Dihydrate, A.C.S.

C₁₀H₁₄N₂Na₂O₈·2H₂O F.W. 372.24 CAS 6381-92-6 Assay: 99.0 - 101.0%

[Edetate, Disodium; Ethylenedinitrilotetraacetic Acid, Sodium Salt]

ED9670	125g	\$22.50
ED9670	500g	\$55.05
ED9670	2.5Kg	\$137.65

EDTA Disodium Titrant, 0.01 M Solution

1.0 mL = 1.0 mg CaCO₃; 1.0 mL = 0.4008 mg Ca

ED1001	1 L	\$16.60
ED1001	3.8 L	\$41.30
ED1001	4 x 3.8 L	\$94.90

EDTA Disodium Titrant, 0.05 M Solution

1.0 mL = 5.0 mg CaCO₃; 1.0 mL = 2.004 mg Ca

ED1005	1 L	\$16.60
ED1005	3.8 L	\$41.30
ED1005	4 x 3.8 L	\$94.90

EDTA Disodium Titrant, 0.0575 M Solution

1.0 mL = 5.75 mg CaCO₃; 1.0 mL = 2.3046 mg Ca

ED1575	1 L	\$16.60
ED1575	3.8 L	\$41.30
ED1575	4 x 3.8 L	\$94.90

EDTA Disodium Titrant, 0.1 M Solution

1.0 mL = 10.0 mg CaCO₃; 1.0 mL = 4.008 mg Ca

ED1006	1 L	\$16.60
ED1006	3.8 L	\$41.30
ED1006	4 x 3.8 L	\$94.90

Filling solutions for many different electrode reference systems and Ion Specific Electrodes (ISE) are available! Call NOW with your requirements!

Electrode Filling Solution, 3 M KCl

Saturated with Silver Chloride.

Never use filling solutions containing Silver in Ross™ electrodes!

EF6063	125 mL	\$16.85
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Electrode Filling Solution, 3 M KCl

EF6062	125 mL	\$16.85
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Electrode Filling Solution, 4 M KCl

Saturated with Silver Chloride.

Never use filling solutions containing Silver in Ross™ electrodes!

EF6060	125 mL	\$16.85
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Electrode Filling Solution, 4 M KCl

EF6070	125 mL	\$16.85
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Electrode Filling Solution, KCl, Saturated

PC6346	125 mL	\$18.50
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Electrode Storage Solution, pH 4.0

For proper storage of glass membrane and combination pH electrodes.
pH 4.0 buffer with Potassium Chloride as Ionic Strength Adjustor.

ES6080	500 mL	\$20.60
ES6080	1 L	\$30.00
ES6080	3.8 L	\$59.57

Electrode Storage Solution, pH 7.0

pH 7.0 buffer with Potassium Chloride as Ionic Strength Adjustor.
Never store pH combination electrodes in distilled or de-ionized water!

ES6090	500 mL	\$20.60
ES6090	1 L	\$30.00
ES6090	3.8 L	\$59.57

Ethyl Alcohol Standards are intended primarily for use in the calibration of instruments and techniques used for determination of Ethyl Alcohol in wine. The concentrations given below are based on results obtained from the gravimetric preparation of the solution and from analytical results from densitometry and titrimetry. Solutions are prepared by weighing and mixing known masses of Ethanol, USP and organic-free water. The solution is made homogeneous by mixing for a minimum of 16 hours. The total mass of the solution is adjusted for the purity estimation of the ethanol, which is confirmed by GC and Karl Fischer analysis for water content.

In addition, the concentration of the solution is determined using titrimetry. The ethanol in known masses of the solutions is oxidized to acetic acid using a known mass of standard potassium dichromate solution in the presence of sulfuric acid. The quantity of ethanol in the solution is determined from the quantity of unreacted potassium dichromate in the solution. To determine the quantity of unreacted potassium dichromate, potassium iodide is added to the oxidized

mixture, and the liberated iodine is titrated with a sodium Thiosulfate solution.

Ethyl Alcohol Standard, 10.0% (v/v) Aqueous

Certified Traceable to National Institute of Standards and Technology (NIST) Standard Reference Material (SRM) 136e, Potassium Dichromate, Oxidimetric Standard (99.984 ± 0.010%)

EA7800	60 mL	\$23.25
EA7800	500 mL	\$78.05
EA7800	1 L	\$105.45

Ethyl Alcohol Standard, 11.0% (v/v) Aqueous

Accuracy to ± 0.05% by volume at 20 C.

EA7810	60 mL	\$23.95
EA7810	500 mL	\$78.05
EA7810	1 L	\$105.45

Ethyl Alcohol Standard, 12.0% (v/v) Aqueous

Accuracy to ± 0.05% by volume at 20 C.

EA7820	60 mL	\$23.95
EA7820	500 mL	\$78.05
EA7820	1 L	\$105.45

Ethyl Alcohol Standard, 13.0% (v/v) Aqueous

Accuracy to ± 0.05% by volume at 20 C.

EA7830	60 mL	\$23.95
EA7830	500 mL	\$78.05
EA7830	1 L	\$105.45

Ethyl Alcohol Standard, 14.0% (v/v) Aqueous

Accuracy to ± 0.05% by volume at 20 C.

EA7840	60 mL	\$23.95
EA7840	500 mL	\$78.05
EA7840	1 L	\$105.45

Ethyl Alcohol Standard, 15.0% (v/v) Aqueous

Accuracy to ± 0.05% by volume at 20 C.

EA7850	60 mL	\$23.95
EA7850	500 mL	\$78.05
EA7850	1 L	\$105.45

Ethyl Alcohol Standard, 20.0% (v/v) Aqueous

Accuracy to $\pm 0.05\%$ by volume at 20 C.

EA7871	60 mL	\$23.95
EA7871	500 mL	\$78.05
EA7871	1 L	\$105.45

Ψ Ethyl Alcohol, Anhydrous, Absolute, 200 Proof, USP

C_2H_5OH 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	500 mL	\$44.95
EA9320	1 L	\$71.95
EA9320	3.8 L	\$165.40

Ψ Ethanol, 99%, Denatured, Technical Grade

CH_3CH_2OH F.W. 46.07 d 0.785 CAS 64-17-5

Anhydrous, denatured Ethyl Alcohol, which may contain MIBK, Benzene, MEK, and esters as a denaturant; it cannot be made non-poisonous!

ET9405	500 mL	\$15.75
ET9405	1 L	\$20.75
ET9405	3.8 L	\$30.35
ET9405	4 x 3.8 L	\$96.10
ET9405	20 L	\$104.95

Ethylene Glycol Reagent

$C_2H_6O_2$ F.W. 62.07 d 1.114 CAS 107-21-1 Assay: 99.0% min.

EG9450	500ml	\$20.40
EG9450	3.8 L	\$67.35

Fehling's Solution "A"

For Reducing Sugars; Mix equal volumes of "A" with "B" Contains Cupric Sulfate, Pentahydrate. 69.278 g of Cupric Sulfate, Pentahydrate per Liter of solution.

FA6250	500 mL	\$15.15
FA6250	1 L	\$19.10
FA6250	3.8 L	\$39.10
FA6250	20 L	\$109.50

Fehling's Solution "B"

For Reducing Sugars; Alkaline Rochelle's salt solution.

346 g Potassium Sodium Tartrate plus 100 g of Sodium Hydroxide per Liter of solution.

FB6260	500 mL	\$17.95
FB6260	1 L	\$23.45
FB6260	3.8 L	\$48.10
FB6260	20 L	\$134.60

Ferric Ammonium Sulfate, Dodecahydrate, A.C.S.

$\text{H}_4\text{FeNO}_8\text{S}_2 \cdot 12\text{H}_2\text{O}$ F.W. 482.20 CAS 7783-83-7 Assay: 98.5 - 102.0% [Iron(III) Ammonium Sulfate]

FS9133	500 g	\$68.50
FS9133	2.5 kg	\$191.55

Ferric Chloride, 0.025% (w/v)

For Biochemical Oxygen Demand (BOD), APHA 5210 B. 5-Day BOD Test

FC6100	500 mL	\$18.20
FC6100	1 L	\$20.70
FC6100	3.8 L	\$28.60

Ferroun Indicator, 0.025 M

1, 10 - Phenanthroline - Ferrous Sulfate; For Chemical Oxygen Demand (COD)

FE4120	60 mL	\$16.85
FE4120	100 mL	\$28.10

Ferrous Ammonium Sulfate, Hexahydrate, A.C.S.

$\text{FeSO}_4(\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$ F.W. 392.14 CAS 7783-85-9 Assay: 98.5 - 101.5% [Iron(II) Ammonium Sulfate]

FA9510	500g	\$53.95
FA9510	2.5 Kg	\$168.55

Ferrous Ammonium Sulfate, 0.1 N

FA1501	1 L	\$18.90
FA1501	3.8 L	\$39.50

Ferrous Ammonium Sulfate, 0.2 N

FA1088	1 L	\$29.45
FA1088	3.8 L	\$69.85

Ferrous Sulfate, Heptahydrate A.C.S.

FeSO₄·7H₂O F.W. 278.02 CAS 7782-63-0 Assay: 99.0% min. [Iron(II) Sulfate]

FS9640	500g	\$39.95
FS9640	2.5Kg	\$101.50

Fluoride Standards Pre-Mixed with TISAB are available!

Fluoride Standard, 10 mg/L (ppm)

1.0 mL = 0.010 mg Fluoride anion from high-purity Sodium Fluoride

FS7195	500 mL	\$16.10
FS7195	1 L	\$25.30

Fluoride Standard, 100 mg/L (ppm)

1.0 mL = 0.100 mg Fluoride anion from Sodium Fluoride

FS7190	500 mL	\$16.10
FS7190	1 L	\$25.30

Fluoride Standard, 1000 mg/L (ppm)

1.0 mL = 1.000 mg Fluoride anion

FS7200	500 mL	\$16.10
FS7200	1 L	\$25.30

Formaldehyde, 37%, A.C.S.

Formalin. This product contains 10 – 15% methanol to prevent polymerization

CH₂O F.W. 30.03 d = 1.081 – 1.085 [50-00-0] Assay: 36.5% - 38.0%

FS9088	500 mL	\$36.50
FS9088	1 L	\$47.90

Ψ Formic Acid, 88%, A.C.S.

CH₂O₂ F.W. 46.03 d 1.220 CAS 64-18-6 Assay: 88% min.

FA9130	500 mL	\$44.40
FA9130	3.8 L	\$152.40

Fructose Standard, 50 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 5.0 mg Fructose per 100 mL solution.

FU7590	100 mL	\$16.85
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Fructose Standard, 200 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 20 mg Fructose per 100 mL solution.

FU7600 100 mL \$16.85

Fructose Standard, 500 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 50 mg Fructose per 100 mL solution.

FU7610 100 mL \$16.85

Fructose Standard, 600 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 60 mg Fructose per 100 mL solution.

FU7620 100 mL \$16.85

Fructose Standard, 1000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 100 mg Fructose per 100 mL solution.

FU7630 100 mL \$16.85

Fructose Standard, 1500 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 150 mg Fructose per 100 mL solution.

FU7640 100 mL \$16.85

Fructose Standard, 2000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 200 mg Fructose per 100 mL solution.

FU7650 100 mL \$19.10

Fructose Standard, 3000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 300 mg Fructose per 100 mL solution.

FU7660 100 mL \$19.10

Fructose Standard, 4000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 400 mg Fructose per 100 mL solution.

FU7670 100 mL \$19.10

Fructose Standard, 6000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 600 mg Fructose per 100 mL solution.

FU7680 100 mL \$19.10

Fructose Standard, 10,000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 1.000 g Fructose per 100 mL solution.

FU7690 100 mL \$21.40

Fructose Standard, 20,000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 2.000 g Fructose per 100 mL solution.

FU7691 100 mL \$21.40

Fructose Standard, 40,000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 4.000 g Fructose per 100 mL solution.

FU7692 100 mL \$21.40

Fructose Standard, 100,000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 10.000 g Fructose per 100 mL solution.

FU7693 100 mL \$23.80

Fructose Standard, 200,000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 20.000 g Fructose per 100 mL solution.

FU7694 100 mL \$27.40

Fructose Standard, 300,000 mg/L (ppm)

Fructose dissolved in 10% Ethanol; 30.000 g Fructose per 100 mL solution.

FU7695 100 mL \$28.10

Gallic Acid, Monohydrate, Certified A.C.S.

$C_7H_6O_5 \cdot H_2O$ F.W. 188.14 CAS 5995-86-8 Assay: 98.0% min. [3,4,5-Trihydroxybenzoic acid]

GA9650 10 g \$13.45

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 \$16.85

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 \$16.85

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 \$16.85

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 \$16.85

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 \$16.85

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 \$16.85

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 \$16.85

Glycerin, Natural, USP

$C_3H_8O_3$ F.W. 92.10 d 1.264 CAS 56-81-5 Assay: 99.0 - 101.0%

GY9314 1 L \$18.90

GY9314 3.8 L \$38.30

GY9314 4 x 3.8 L \$90.80

GY9314 20 L \$98.40

Ψ Gold Atomic Absorption Standard, 1000 ppm

Gold metal ions in 10% Hydrochloric Acid Matrix; Verified NIST SRM 3121

AU7705 100 mL \$60.50

AU7705 500 mL \$185.40

Gold Coast Solution #1

Copper Sulfate Solution

GC6281 500 mL \$17.75

GC6281 1 L \$24.50

GC6281 3.8 L \$58.40

Gold Coast Solution #2

Potassium Sodium Tartrate Solution

GC6282 500 mL \$21.70

GC6282 1 L \$32.40

GC6282 3.8 L \$59.60

Gold Coast Solution #3

Potassium Iodide Solution

GC6283	500 mL	\$25.30
GC6283	1 L	\$45.60
GC6283	3.8 L	\$135.25

Ψ Gold Coast Solution #4

Sulfuric Acid Solution, 25% v/v (1+3)

GC6284	500 mL	\$18.50
GC6284	1 L	\$22.80
GC6284	3.8 L	\$51.60

Gold Coast Solution #5

Starch in Potassium Iodide Solution

GC6285	500 mL	\$18.15
GC6285	1 L	\$23.30
GC6285	3.8 L	\$53.65

Gold Coast Solution #6

Sodium Thiosulfate Solution

GC6286	500 mL	\$16.65
GC6286	1 L	\$21.35
GC6286	3.8 L	\$49.10

Ψ Hardness Buffer Solution

For Water Hardness, APHA 2340 C. EDTA Titrimetric Method.

Ammonium Chloride-Ammonium Hydroxide with Disodium Magnesium EDTA

HB2110	500 mL	\$20.25
HB2110	1 L	\$31.50
HB2110	3.8 L	\$72.35

Ψ Hexanes (n-Hexane) A.C.S.

Mixture of several isomers of hexane predominantly n-hexane, 2-methylpentane and 3-methylpentane, plus methylcyclopentane. Flammable!

HX9406	1 L	\$54.80
HX9406	3.8 L	\$124.65

Hydrochloric Acid, 0.01 N

N/100, 0.0100 N \pm 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	\$9.55
HC1009	3.8 L	\$21.10
HC1009	4 x 3.8 L	\$48.45
HC1009	20 L	\$50.55

Hydrochloric Acid, 0.1 N

N/10, 0.1000 N \pm 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	\$9.55
HC1020	3.8 L	\$21.10
HC1020	4 x 3.8 L	\$48.45
HC1020	20 L	\$50.55

Ψ Hydrochloric Acid, 0.2 N Aqueous

(N/5) 0.2000 N \pm 0.0005 N (0.1995 - 0.2005 N)

HC1028	1 L	\$9.55
HC1028	3.8 L	\$21.10
HC1028	4 x 3.8 L	\$48.45

Ψ Hydrochloric Acid, 0.5 N (N/2)

0.500 N \pm 0.002 N (0.495 - 0.505 N) Aqueous Solution

HC1027	1 L	\$9.55
HC1027	3.8 L	\$21.10
HC1027	4 x 3.8 L	\$48.45

Ψ Hydrochloric Acid, 1.0 N

1.000 N \pm 0.005 (0.995 - 1.005 N) Aqueous Solution

Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM 84k, Potassium Hydrogen Phthalate.

HC1030	1 L	\$9.55
HC1030	3.8 L	\$21.10
HC1030	4 x 3.8 L	\$48.45
HC1030	20 L	\$49.90

Ψ Hydrochloric Acid, 2.0 N

2.000 N ± 0.005 N (1.995 - 2.005 N) Aqueous Solution

Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM 84k, Potassium Hydrogen Phthalate.

HC1040 1 L \$11.25

HC1040 3.8 L \$21.90

HC1040 4 x 3.8 L \$50.40

Ψ Hydrochloric Acid, 6.0 N

6.00 N ± 0.05 N (5.95 – 6.05 N)

Standardized to pH 8.2 against Sodium Hydroxide that has been standardized against NIST SRM, 84k Potassium Hydrogen Phthalate.

HC1611 1 L \$24.30

HC1611 3.8 L \$47.70

Ψ Hydrochloric Acid, 10% (v/v) (1+9)

About 1.2 Normal Aqueous Solution

HC6110 1 L \$11.20

HC6110 3.8 L \$21.90

HC6110 4 x 3.8 L \$50.40

Ψ Hydrochloric Acid, 50%(v/v)

About 6 Normal or Molar Aqueous Solution. Approximately 18% (w/w).

HC6120 1 L \$22.15

HC6120 3.8 L \$55.60

HC6120 4 x 3.8 L \$127.95

Ψ Hydrochloric Acid, A.C.S.

HCl F.W. 36.46 d 1.200 CAS 7647-01-0 Assay: 36.5 - 38.0% Corrosive!
[Muriatic Acid; Hydrogen Chloride, Aqueous Solution] DEA list 2 chemical.

HC9040 1 L \$25.30

HC9040 2.5 L \$29.00

HC9040 3.8 L \$37.50

HC9040 4 x 3.8 L \$105.05

Ψ Hydrochloric Acid, 20° Baume Technical

Sp. Gr. = 145 / (145 - ° Baume) for above 145/125 = 1.16 Approximately 30%

HC9509 1 L \$15.10

HC9509 3.8 L \$25.85

HC9509 4 x 3.8 L \$59.40

Ψ Hydrofluoric Acid, 49%, A.C.S.

HF F.W. 20.01 d 1.150 CAS 7664-39-3

Assay: 48.0 - 51.0% Corrosive!

HF9250	3.8 L	\$48.45
HF9250	4 x 3.8 L	\$122.75

Hydrogen Peroxide, 1% (v/v)

Aqueous Solution for sulfites in wine by Aeration - Oxidation method.

HP6565	500 mL	\$11.25
HP6565	1 L	\$16.85
HP6565	3.8 L	\$38.75

Ψ Hydrogen Peroxide, 3% (v/v)

Aqueous solution for sulfites in wine by Aeration-Oxidation method.

HP6300	500 mL	\$11.25
HP6300	1 L	\$16.85
HP6300	3.8 L	\$38.75

Ψ Hydrogen Peroxide, 15% (w/w)

Made by diluting Hydrogen Peroxide, ACS, (1 + 1) with an equal volume of de-ionized water.

HP6044	1 L	\$14.75
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Ψ Hydrogen Peroxide, A.C.S.

H₂O₂ F.W. 34.01 d 1.110 CAS 7722-84-1

Assay: 29.0 - 32.0% Oxidizer!

contains minimum amount of Acetanilide as a stabilizer; refrigerate for extended shelf life.

HP9050	500 mL	\$24.20
HP9050	1 L	\$28.65
HP9050	3.8 L	\$51.15
HP9050	4 x 3.8 L	\$143.15

Ψ Hydrogen Peroxide, 35% (w/w) Technical Grade

H₂O₂ F.W. 34.01 d 1.110 CAS 7722-84-1

Oxidizer!

contains minimum amount of stabilizer Acetanilide; refrigerate for extended shelf life.

HP9055	500 mL	\$16.95
HP9055	1 L	\$20.25
HP9055	3.8 L	\$25.85
HP9055	4 x 3.8 L	\$69.65

Ψ Hydroxylamine Hydrochloride, Crystal, A.C.S.

NH₂OH-HCl F.W. 69.49 CAS 5470-11-1 Assay: 96.0% min. Corrosive, Toxic Solid!

HH9555	500g	\$49.40
HH9555	2.5Kg	\$148.15

Iodine Solution, 0.00564 N

0.00564 N ± 0.00002 N Residual Chlorine Iodometric Method II, APHA 4500 – Cl C.

IS1564	1 L	\$16.85
IS1564	3.8 L	\$47.15

Iodine Solution, 0.0156 N

0.0156 N ± 0.0002 N (0.0154 - 0.0158 N)

IS1410	500 mL	\$12.30
IS1410	1 L	\$16.85
IS1410	3.8 L	\$47.15

Iodine Solution, 0.02 N

N/50 0.0200 N ± 0.0005 (0.0195 - 0.0205 N)

Iodine in Potassium Iodide solution for titration of reducing agents such as Sulfites.

IS1400	500 mL	\$12.30
IS1400	1 L	\$16.85
IS1400	3.8 L	\$47.15

Iodine Solution, 0.0250 N

For Sulfide, APHA, Iodometric Method.

IS1405	500 mL	\$12.30
IS1405	1 L	\$16.85
IS1405	3.8 L	\$47.15

Iodine Solution, 0.0282 N

0.0282 N ± 0.0005 N (0.0277 - 0.0287 N)

IS1070	500 mL	\$12.30
IS1070	1 L	\$16.85
IS1070	3.8 L	\$47.15

Iodine Solution, 0.1 N

0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

IS1050	500 mL	\$12.95
IS1050	1 L	\$21.90
IS1050	3.8 L	\$50.00

Ψ Iron Atomic Absorption Standard, 1000 ppm

Iron powder in 2% Nitric Acid; Verified NIST SRM 3126

FE7715	100 mL	\$15.55
FE7715	500 mL	\$42.15

Ψ Iron Standard Solution as Fe, 200 mg/l (ppm)

Prepared from 1000 ppm standard by volumetric dilution with 2% Nitric Acid

FE7716	500 mL	\$18.20
FE7716	1 L	\$138.40

Isopropyl Alcohol Internal Standard, 0.2% (v/v)

For use in the Gas Chromatography of Alcohols.

IA7717	100 mL	\$14.05
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Isopropyl Alcohol, 10% (v/v) Aqueous

Semiconductor Isopropyl Alcohol (Class 10) in de-ionized Water.

IA6257	3.8 L	\$16.60
IA6257	4 x 3.8 L	\$49.70

Ψ Isopropyl Alcohol, 70% (v/v)

Aqueous solution of Isopropyl Alcohol commonly known as "rubbing alcohol".

IA6191	3.8 L	\$26.15
IA6191	4 x 3.8 L	\$72.45
IA6191	20 L	\$82.75

Ψ Isopropyl Alcohol, Reagent, A.C.S.

C₃H₇OH F.W. 60.10 d 0.781 CAS 67-63-0 Assay: 99.5% min.

[Isopropanol; 2-Propanol; IPA]

IA9060	500 mL	\$16.85
IA9060	1 L	\$25.80
IA9060	3.8 L	\$40.00
IA9060	4 x 3.8 L	\$92.15

Ψ Isopropyl Alcohol, Technical Grade

C₃H₇OH F.W. 60.10 d 0.781 CAS 67-63-0 Assay: 99.0% min.

[Isopropanol; 2-Propanol; IPA]

IA9411	3.8 L	\$32.15
IA9411	4 x 3.8 L	\$83.15
IA9411	20 L	\$101.45

Lactic Acid Standard, 1000 mg/L (ppm)

Lactic Acid in water. 0.1 g of lactic acid per hundred milliliters of water.

LA7721 100 mL \$15.85

Lactic Acid Standard, 5000 mg/L (ppm)

0.5 g Lactic acid dissolved in 100 mL of de-ionized water.

LA7722 100 mL \$21.25

Lead Acetate Solution, Saturated, Neutral

For sulfide removal before analysis and clarification in wine samples.

LA6301 100 mL \$21.35

Ψ Lead Atomic Absorption Standard, 1000 ppm

Lead shot in 2% Nitric Acid; Verified NIST SRM 3128

PB7725 100 mL \$15.55

PB7725 500 mL \$42.15

Ψ Lithium Atomic Absorption Standard, 1000 ppm

Lithium Carbonate in 2% Nitric Acid; Verified NIST SRM 3129

LI7735 100 mL \$15.55

LI7735 500 mL \$42.15

Ψ Magnesium Atomic Absorption Standard, 1000 ppm

Magnesium granules in 2% Nitric Acid; Verified NIST SRM 3131

MG7745 100 mL \$15.55

MG7745 500 mL \$42.15

Magnesium Chloride, Hexahydrate, Technical Grade

MgCl₂·6H₂O F.W. 203.30 CAS 7791-18-6

MC9407 500g \$16.85

MC9407 2.5 kg \$45.05

Magnesium Sulfate, Heptahydrate, A.C.S.

MgSO₄·7H₂O F.W. 246.48 CAS 10034-99-8 Assay: 99.0 - 100.5% [Epsom Salts]

MS9513 500 g \$26.35

MS9513 2.5 kg \$78.95

Magnesium Sulfate, Heptahydrate, USP

MgSO₄·7H₂O F.W. 246.48 CAS 10034-99-8 Assay: 99.0 - 100.5% [Epsom Salts]

MS9735 500 g \$16.85

MS9735 2.5 kg \$37.10

Magnesium Sulfate Solution, 2.25% (w/v)

For Biochemical Oxygen Demand (BOD), APHA 5210 B. 5-Day BOD Test.

MS6130 500 mL \$13.45

MS6130 1 L \$19.05

Maleic Acid, 99%

C₄H₄O₄ F.W 116.08 [110-16-7]. DOT: Maleic Acid, 8, UN2215, III

MA9464 100 g \$15.55

MA9464 500 g \$33.00

Malic Acid Standard, 100 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 10.0 mg per 100 mL.

MA7723 100 mL \$15.75

Malic Acid Standard, 150 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 10.0 mg per 100 mL.

MA7015 100 mL \$15.75

Malic Acid Standard, 200 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 10.0 mg per 100 mL.

MA7200 100 mL \$15.75

Malic Acid Standard, 250 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 25.0 mg per 100 mL.

MA7724 100 mL \$15.75

Malic Acid Standard, 500 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 50.0 mg per 100 mL

MA7726 100 mL \$15.75

Malic Acid Standard, 750 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 75.0 mg per 100 mL

MA7727 100 mL \$15.75

Malic Acid Standard, 1000 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 100.0 mg per 100 mL

MA7728 100 mL \$15.75

Malic Acid Standard, 1500 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 150.0 mg per 100 mL

MA7729 100 mL \$15.75

Malic Acid Standard, 2000 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 200.0 mg per 100 mL

MA7731 100 mL \$15.75

Malic Acid Standard, 3000 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 300.0 mg per 100 mL

MA7732 100 mL \$15.75

Ψ Manganese Atomic Absorption Standard, 1000 ppm

Manganese Acetate in 2% Nitric Acid; Verified NIST SRM 3132

MN7755 100 mL \$15.55

MN7755 500 mL \$42.15

Manganese (II) Sulfate, 2.15 Molar Solution

Manganous Sulfate

APHA 4500-O C. Azide Modification for Dissolved Oxygen (DO),

MS6190 500 mL \$38.90

MS6190 1 L \$50.55

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 \$13.45

ML9512 500g \$51.35

ML9512 2.5 Kg \$138.65

Ψ Mercury Atomic Absorption Standard, 1000 ppm

Mercuric Nitrate in 2% Nitric Acid; Verified NIST SRM 3133

HG7765 100 mL \$15.55

HG7765 500 mL \$42.15

Mercuric Nitrate Titrant, 0.01 N

MN1408	500 mL	\$19.00
MN1408	1 L	\$21.75
MN1408	3.8 L	\$44.95

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	\$19.00
MN1410	1 L	\$21.75
MN1410	3.8 L	\$44.95

Ψ Mercuric Nitrate Titrant, 0.1 N

0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

MN1411	500 mL	\$19.10
MN1411	1 L	\$22.50
MN1411	3.8 L	\$50.55

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	\$19.30
MN1412	1 L	\$24.70
MN1412	3.8 L	\$53.95

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	\$18.10
MA9070	1 L	\$21.95
MA9070	3.8 L	\$38.75
MA9070	4 x 3.8 L	\$108.50
MA9070	20 L	\$135.70

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	\$18.20
MA9412	3.8 L	\$29.30
MA9412	4 x 3.8 L	\$82.85
MA9412	20 L	\$103.55

Methyl Red, 0.1% (w/v) Aqueous Indicator

pH 4.2 (red) – pH 6.2 (yellow)

MR4261	500 mL	\$17.35
MR4261	1 L	\$20.20
MR4261	3.8 L	\$37.50

Methyl Orange, 0.1% (w/v) Aqueous Indicator

pH 3.2 (Red) to pH 4.4 (Yellow)

MO4191	500 mL	\$11.45
MO4191	1 L	\$15.00
MO4191	3.8 L	\$34.50

1-Methyl-2-Pyrrolidinone, Electronic/Cleanroom Grade

N-Methyl Pyrrolidone; NMP Packaged in a cleanroom environment. BASF

C_5H_9NO F.W. 99.13 d 1.028 [872-50-4]

NM9443	3.8 L	\$57.30
NM9443	4 x 3.8 L	\$171.95
NM9443	20 L	\$202.25

1-Methyl-2-Pyrrolidinone, Technical Grade

N-Methyl Pyrrolidone; NMP

C_5H_9NO F.W. 99.13 d 1.028 [872-50-4]

NM9441	3.8 L	\$51.55
NM9441	4 x 3.8 L	\$154.70
NM9441	20 L	\$182.00

Methylene Blue, 1% (w/v) Aqueous Solution

MB4449	500 mL	\$21.15
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Methylene Blue, High Purity Biological

Basic Blue 9, C.I. 52015 [12296I-43-9]

MB4447	100 gr	\$52.00
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Molybdenum Atomic Absorption Standard, 1000 ppm

Ammonium Molybdate in Water; Verified NIST SRM 3134

MO7775	100 mL	\$15.55
MO7775	500 mL	\$42.15

Murexide Indicator on Sodium Chloride

Ammonium Purpurate on Sodium Chloride crystals. Complexometric Indicator for Calcium.

$C_8H_8N_6O_6$ FW 284.19 [5, 5'-nitrilodibarbituric acid monoammonium salt]

MU4900 100 g \$15.75

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.

Nickel Plating Solutions Please Inquire!

Ψ Nickel Atomic Absorption Standard, 1000 ppm

Nickel Powder in 2% Nitric Acid; Verified NIST SRM 3136

NI7785 100 mL \$15.55

NI7785 500 mL \$42.15

Nickel Sulfamate, 0.01M

$Ni(SO_3-NH_2)4H_2O$ F.W. 322.93

NS1234 1 L \$17.55

NS123 3.8 L \$41.15

Nickel Sulfate, Hexahydrate, A.C.S.

$NiSO_4-6H_2O$ F.W. 262.85 CAS 10101-97-0 Assay: 98.0 - 102.0%

NS9555 500 g \$88.15

NS9555 2.5 kg \$239.50

Nickel Sulfate, 0.01 Molar, Aqueous Solution

0.0100 M \pm 0.0005 M (0.0095 - 0.0105 M)

NS6001 1 L \$17.20

NS6001 3.8 L \$40.00

Ψ Nitric Acid, 1.0 M Solution

M = N, 1.000 M \pm 0.005 M (0.995 - 1.005 M)

NA1090 500 mL \$16.65

NA1090 1 L \$21.10

Ψ Nitric Acid, 10% (w/w) Aqueous

Prepared from Nitric Acid, ACS dissolved in de-ionized water.

1.673 N d 1.0543

NA6810	500 mL	\$19.30
NA6810	6 x 500 mL	\$75.15
NA6810	1 L	\$25.25
NA6810	2.5 L	\$31.60

Ψ Nitric Acid, 20% (w/w) Aqueous

Prepared from Nitric Acid, ACS dissolved in de-ionized water.

3.359 N d 1.1150

NA6820	500 mL	\$21.25
NA6820	6 x 500 mL	\$82.80
NA6820	1 L	\$27.85
NA6820	2.5 L	\$34.80

Ψ Nitric Acid, 30% (w/w) Aqueous

Prepared from Nitric Acid, ACS dissolved in de-ionized water. 5.618 N d 1.1801

NA6830	500 mL	\$23.25
NA6830	6 x 500 mL	\$87.95
NA6830	1 L	\$30.50
NA6830	2.5 L	\$38.10

Ψ Nitric Acid, 40% (w/w) Aqueous

Prepared from Nitric Acid, ACS dissolved in de-ionized water.

7.913 N d = 1.2466 g/cm³

NA6840	500 mL	\$25.20
NA6840	6 x 500 mL	\$95.20
NA6840	1 L	\$32.95
NA6840	2.5 L	\$41.35

Ψ Nitric Acid Solution, 50% (v/v)

Aqueous Solution about 8 N; (1+1) d 1.25

NA6650	500 mL	\$20.80
NA6650	1 L	\$28.65
NA6650	2.5 L	\$45.85

Ψ Nitric Acid, Reagent, A.C.S.

HNO₃ F.W. 63.01 d = 1.42 g/cm³ CAS 7697-37-2 Assay: 68.0 - 70.0% by weight.

[Aqua Fortis]

NA9080	500 mL	\$17.10
NA9080	1 L	\$24.15
NA9080	2.5 L	\$38.75
NA9080	6 x 2.5 L	\$155.15

Nitrogen Standard as NH₃, 1000 mg/L (ppm)

1.00 mL = 1.00 mg Ammonia. Made from Ammonium Chloride and water.

NA7242	500 mL	\$19.05
NA7242	1 L	\$28.65

Nitrogen Standard as NH₃, 100 mg/L (ppm)

1.00 mL = 0.100 mg Ammonia

NA7241	500 mL	\$19.05
NA7241	1 L	\$28.65

Nitrogen Standard as NO₃⁻, 100 mg/L (ppm)

1.00 mL = 0.100 mg Nitrate. Made from Potassium Nitrate and water.

NS7240	500 mL	\$19.05
NS7240	1 L	\$28.65

Nitrogen Standard as NO₃⁻, 1000 mg/L (ppm)

1.00 mL = 1.00 mg Nitrate. Made from Potassium Nitrate and water.

NS7250	500 mL	\$19.05
NS7250	1 L	\$28.65

Nitrogen Standard as NO₂⁻, 100 mg/L (ppm)

1.00 mL = 0.100 mg Nitrite. Made from Potassium Nitrite and water.

NN7261	500 mL	\$19.05
NN7261	1 L	\$28.65

Nitrogen Standard as NO₂⁻, 1000 mg/L (ppm)

1.00 mL = 1.00 mg Nitrite. Made from Potassium Nitrite and water.

NN7262	500 mL	\$19.05
NN7262	1 L	\$28.65

Oxidation-Reduction Potential (ORP) Standard, 200 mV

200 mV ± 10 mV with a Silver-Silver Chloride reference electrode filled with 4M KCl.

OS7260	500 mL	\$22.45
OS7260	1 L	\$29.20

Ψ Oxidation-Reduction Potential (ORP) Standard, 400 mV

400 mV ± 10 mV with respect to a Silver-Silver Chloride reference electrode filled with 4M KCl.

OS7270	500 mL	\$22.45
OS7270	1 L	\$29.20
OS7270	3.8 L	\$63.40

Ψ Oxidation-Reduction Potential (ORP) Standard, 475 mV

Light's Solution: Iron (II)/ Iron (III) Ammonium Sulfate Solution, For ORP, APHA
475 mV ± 10 mV with a Silver-Silver Chloride reference electrode filled with 4M KCl.

LS7280	500 mL	\$22.45
LS7280	1 L	\$29.20

Ψ Oxidation-Reduction Potential (ORP) Standard, 600 mV

600 mV ± 10 mV with a Silver-Silver Chloride reference electrode filled with 4M KCl.

OS7290	500 mL	\$22.45
OS7290	1 L	\$29.20

Oxalic Acid, Dihydrate, Crystal, A.C.S.

$C_2H_2O_4 \cdot 2H_2O$ F.W. 90.04 CAS 6153-56-6 Assay: 99.5 - 102.5% [Ethanedioic Acid]

OA9567	500 g	\$46.20
OA9567	2.5 kg	\$135.10

Ψ Palladium Atomic Absorption Standard, 1000 ppm

Ammonium Tetrachloropalladate in 10% Hydrochloric Acid; Verified NIST SRM 3138

PD7795	100 mL	\$60.45
PD7795	500 mL	\$185.40

Ψ PAN Indicator, 0.1% (w/v) in Isopropyl Alcohol

[1-(2-Pyridylazo) - Naphthol] $C_{15}H_{11}N_3O$ F.W. 249.27 CAS 85-85-8

Absorption max: 462 nm

PI4266	100 mL	\$23.60
PI4266	500 mL	\$38.20

Ψ Phenolphthalein Indicator Solution, 1% (w/v) in Isopropyl Alcohol

pH 8.3 (Colorless) - pH 10.0 (Red)

PH4070	500ml	\$17.05
PH4070	1 L	\$22.75
PH4070	3.8 L	\$52.25
PH4070	4 x 3.8 L	\$120.35

Ψ Phenolphthalein Indicator Solution, 0.5% (w/v) in Isopropyl Alcohol

pH 8.3 (Colorless) - pH 10.0 (Red)

PH4035	500ml	\$15.10
PH4035	1 L	\$20.85
PH4035	3.8 L	\$50.25
PH4035	4. 3.8 L	\$118.15

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	25g	\$25.30
PH9347	100g	\$50.30
PH9347	500 g	\$83.00

Phenol Red Indicator, 0.04% (w/v) Aqueous

pH 6.8 (Yellow) - pH 8.2 (Red)

PR4080	500 mL	\$11.25
PR4080	1 L	\$16.55

Phenylarsine Oxide, 0.00564 N

1.00 mL = 0.200 mg Chlorine

APHA 4500-Cl C. Iodometric Method II; [PAO]

PA1100	500 mL	\$34.80
PA1100	1 L	\$53.95
PA1100	3.8 L	\$162.90

Phosphate Buffer Solution, pH 7.0

For Residual Chlorine, APHA 4500-Cl D. Amperometric Titration Method

PB2120	500 mL	\$13.45
PB2120	1 L	\$21.25
PB2120	3.8 L	\$36.75

Phosphate Buffer Solution, pH 7.2

APHA for Media (Meets Specifications of ASTM D-4455)

PB2130	500 mL	\$13.45
PB2130	1 L	\$21.25
PB2130	3.8 L	\$36.75

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	\$14.65
PA6140	1 L	\$19.10
PA6140	3.8 L	\$39.30
PA6140	4 x 3.8 L	\$90.45

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 de-ionized water.

PA6025	1 L	\$17.95
PA6025	3.8 L	\$40.45
PA6025	4 x 3.8 L	\$102.55
PA6025	10 L	\$90.90
PA6025	20 L	\$113.25

Ψ Phosphoric Acid, 29.5% (v/v) Solution

295 mL of Phosphoric Acid, 85% (w/w) A.C.S. diluted to 1 Liter with de-ionized water.

PA6027	3.8 L	\$40.45
PA6027	4 x 3.8 L	\$102.55

Ψ Phosphoric Acid, A.C.S.

H₃PO₄ F.W. 98.00 d = 1.685 g/cm³ CAS 7664-38-2 Assay: 85% by wt. min.
[Orthophosphoric Acid]

PA9085	1 L	\$32.60
PA9085	2.5 L	\$47.50
PA9085	3.8 L	\$64.50
PA9085	4 x 3.8 L	\$148.30

Ψ Phosphoric Acid, Technical

H₃PO₄ F.W. 98.00 d = 1.685 g/mL CAS 7664-38-2 Assay: 75% by wt. min.
[Orthophosphoric Acid]

PA9086	1 L	\$26.10
PA9086	2.5 L	\$38.05
PA9086	3.8 L	\$51.60
PA9086	4 x 3.8 L	\$118.70

Ψ Phosphoric Acid – Sulfamic Acid

20 g/L NH₂SO₃H in (1 + 9) Phosphoric Acid Solution Residual Chlorine APHA 4500 C1 - C

PS6854	1 L	\$29.60
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Ψ Platinum Atomic Absorption Standard, 1000 ppm

Potassium Hexachloroplatinate in 2% Hydrochloric Acid; Verified NIST SRM 3140

PT7786	100 mL	\$77.90
PT7786	500 mL	\$208.15

Ψ Potassium Atomic Absorption Standard, 1000 ppm

Potassium Nitrate in 2% Nitric Acid; Verified NIST SRM 3141

K7787	100 mL	\$15.55
K7787	500 mL	\$42.15

Ψ Potassium AA Standard, 500 mg/L (ppm)

Potassium Nitrate in de-ionized water for Winery Laboratory use. NIST traceable.

K57787	100 mL	\$15.55
K57787	500 mL	\$42.15

Potassium Bromide, Crystal, A.C.S.

KBr F.W. 119.00 CAS 7758-02-3 Assay: 99.0% min. Hygroscopic.

PB9205	500g	\$37.35
PB9205	2.5Kg	\$107.70

Potassium Chloride, Crystal, A.C.S.

KCl F.W. 74.55 CAS 7447-40-7 Assay: 99.0 - 100.5% Hygroscopic.

PC9520	500g	\$17.85
PC9520	2.5 Kg	\$47.05

Ψ Potassium Chromate, Granular, A.C.S.

K_2CrO_4 F.W. 194.19 CAS 7789-00-6 Assay: 99.0% min.

PC9523	500g	\$44.80
PC9523	2.5 Kg	\$130.05

Ψ Potassium Chromate Indicator, 5% (w/v) Aqueous

For Chloride, APHA 4500-Cl B. Argentometric Method.

PC4100	500 ml	\$10.05
PC4100	1 L	\$16.10

Ψ Potassium Fluoride, A.C.S.

M.W. 58.10 CAS 7789-23-3 KF Assay: 99% minimum.

PF9568	100 g	\$ 25.80
PF9568	500 g	\$ 59.30

Ψ Potassium Fluoride, 40% (w/v) Aqueous Solution

For Dissolved Oxygen, APHA 4500-O C. Azide Modification.

PF6150	500 mL	\$67.40
PF6150	1 L	\$112.35

Potassium Hydrogen Bilodate, 0.1 N

$KH(IO_3)_2$ F.W. 389.91 CAS 13455-24-8 Assay: 99.95 - 100.05

PB1700	1 L	\$24.70
PB1700	3.8 L	\$56.20

Potassium Hydrogen Phthalate, Certified, A.C.S.

$C_8H_5KO_4$ 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	\$14.50
KH9204	500 g	\$40.30

Potassium Hydrogen Phthalate, 0.1 N (N/10)

0.1000 N ± 0.0005 N (0.0995 - 0.1005 N) Aqueous Solution

PB1600	1 L	\$28.20
PB1600	3.8 L	\$59.40

Ψ Potassium Hydroxide, 0.5 N in Ethanol

0.500 N ± 0.003 (0.497 – 0.503 N) Certified

PH1255	1 L	\$27.25
PH1255	3.8 L	\$62.60

Ψ Potassium Hydroxide, 0.1 N (0.1 M) Aqueous

0.1000 N ± 0.0005 N (0.0995 – 0.1005 N)

PH1161	1 L	\$12.95
PH1161	3.8 L	\$34.00

Ψ Potassium Hydroxide, 45% (w/w) Aqueous Reagent

KOH F.W. 56.11 d 1.456 CAS 1310-58-3 Assay: 45% min.

PH9045	1 L	\$22.10
PH9045	3.8 L	\$48.80
PH9045	4 x 3.8 L	\$112.30
PH9045	20 L	\$136.65

Ψ Potassium Hydroxide, 10% (w/v)

100 grams of Potassium Hydroxide, ACS dissolved in de-ionized water~1.8 Normal or Molar

PH6233	500 mL	\$11.15
PH6233	1 L	\$16.35
PH6233	3.8 L	\$37.60

Ψ Potassium Hydroxide, Solid, Technical Grade

Pellets usually contain 10 – 15% water and significant Carbonate.

PH9048	500 g	\$12.70
PH9048	1 Kg	\$26.50
PH9048	2.5 Kg	\$50.35

Ψ Potassium Iodate, Powder, A.C.S.

KIO₃ F.W. 214.00 CAS 7758-05-6 Assay: 99.4 - 100.4% M = 6 N

PI9494	100 g	\$83.00
PI9494	500 g	\$138.70

Potassium Iodate, 0.00564 N Aqueous

0.00564 N ± 0.00002 N (0.00562 - 0.00568 N)

Equivalent weight of KIO₃ is 35.6667 g so 1.0 N solution contains 35.6667 g per Liter.

PI1511	1 L	\$21.55
PI1511	3.8 L	\$44.95

Potassium Iodate, 0.05 M Solution

M = 6 N 0.0500 M ± 0.0005 M (0.0495 - 0.0505 M)

PI1115	1 L	\$33.80
PI1115	3.8 L	\$82.50

Potassium Iodate, 0.1 N Solution

Aqueous Solution, M = 6N, therefore 0.1 N = 0.0167 M

PI1117	1 L	\$39.10
PI1117	3.8 L	\$88.55

Potassium Iodate Concentrate II

Deox[®] 2000 Dechlorination Analyzer For Residual Chlorine at ± 5 ppm level.

PI1068	250 mL	\$28.10
PI1068	4 x 250 mL	\$101.10

Potassium Iodate Concentrate I

Deox[®] 2000 Dechlorination Analyzer For Residual Chlorine at ± 10 ppm level.

PI1136	250 mL	\$44.95
PI1136	4 x 250 mL	\$161.80

Potassium Iodate - Iodide, 0.00794 N (N/126)

0.00794 N ± 0.00005 N (0.00789 - 0.00799 N) Aqueous solution

II1138	1 L	\$15.75
II1138	3.8 L	\$33.70

Potassium Iodate-Iodide, 0.0156 N

M = 6 N 0.0156 N ± 0.0002 N (0.0154 - 0.0158 N)

II1500	1 L	\$35.95
II1500	3.8 L	\$73.05

Potassium Iodate-Iodide, 0.02 N

M = 6 N 0.0200 N ± 0.0002 N (0.0198 - 0.0202 N)

II1502	1 L	\$38.20
II1502	3.8 L	\$78.65

Potassium Iodate-Iodide, 0.025 N

M = 6 N 0.0250 N ± 0.0005 N (0.0245 - 0.0255 N)

II1102	1 L	\$40.45
II1102	3.8 L	\$84.25

Potassium Iodate-Iodide, 0.1 N

M = 6 N 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

II1111	1 L	\$39.30
II1111	3.8 L	\$82.55

Potassium Iodide, 5% (w/v) Aqueous Solution

Stabilized for Residual Chlorine, APHA 4500-Cl D. Amperometric Titration Method.
Light Sensitive.

PI6160	500 mL	\$21.75
PI6160	1 L	\$39.60

Potassium Iodide, 10% (w/v) Aqueous Solution

Stabilized. Light - Sensitive.

PI6165	500 mL	\$24.45
PI6165	1 L	\$43.25

Potassium Iodide, 15% (w/v) Aqueous Solution

150 grams of Potassium Iodide, ACS dissolved in de-ionized water.

PI6165	500 mL	\$25.85
PI6165	1 L	\$45.15

Potassium Iodide, Free Flowing, Crystals, A.C.S.

KI F.W. 166.00 CAS 7681-11-0 Assay: 99.0% min.

Light and Moisture Sensitive.

PI6167	500 g	\$72.75
PI9530	2.5 kg	\$301.15
PI9530	5 kg	\$478.40
PI953	12.5 kg	\$1053.95

Potassium Iodide, Saturated Solution

1480 grams/ L Potassium Iodide dissolved in de-ionized water at 25°C

PI9530	100 mL	\$29.55
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Ψ Potassium Nitrate, A.C.S.

KNO₃ F.W. 101.10 CAS 7757-79-1 Assay: 99.0% min.

PN9556	500 g	\$38.20
PN9556	2.5 kg	\$106.90

Ψ Potassium Permanganate, Crystal, A.C.S.

KMnO₄ F.W. 158.03 CAS 7722-64-7 Assay: 99.0% min.

DEA list 2; Written order required!

PP9540 500g \$40.30

PP9540 2.5 Kg \$98.70

Ψ Potassium Permanganate, Crystal, U.S.P.

KMnO₄ F.W. 158.03 CAS 7722-64-7 Assay: 99.0% - 100.5%

DEA list 2; Written order required!

PP9541 500g \$36.25

PP9541 2.5 Kg \$90.85

Potassium Permanganate, 0.1 N Aqueous

M = 5 N 3.1606 grams KMnO₄ dissolved per Liter in freshly boiled distilled water.

PP1987 1 L \$21.80

PP1987 3.8 L \$48.35

Potassium Permanganate, 0.5 N Aqueous

15.803 grams KMnO₄ dissolved per Liter in freshly boiled distilled water.

PP1986 1 L \$25.15

PP1986 3.8 L \$77.35

Potassium Permanganate, 1.0 N Aqueous

M = 5 N 31.606 grams KMnO₄ dissolved per Liter in freshly boiled distilled water.

PP1988 1 L \$32.70

PP1988 3.8 L \$106.30

Potassium Phosphate, Dibasic, Anhydrous, A.C.S.

K₂HPO₄ F.W. 174.18 CAS 7758-11-4 Assay: 98.0% min.

PP9552 500g \$35.40

PP9552 2.5 Kg \$117.40

Potassium Phosphate, Monobasic, A.C.S.

KH₂PO₄ F.W. 136.09 CAS 7778-77-0 Assay: 98.0 - 100.5% dried basis @ 105 C

PP9550 500g \$21.35

PP9550 2.5 Kg \$78.65

Potassium Sodium Tartrate, Tetrahydrate, A.C.S.

$C_4H_4KNaO_6 \cdot 4H_2O$ F.W. 282.22 CAS 6381-59-5 Assay: 99.0 - 102.0% [Rochelle Salt]

PS9565 500g \$29.65

PS9565 2.5 Kg \$94.90

Potassium Sulfate, Crystal, A.C.S.

K_2SO_4 F.W. 174.26 CAS 7778-80-5 Assay: 99.0% min.

PS9560 500g \$20.80

PS9560 2.5 Kg \$72.75

Potassium Thiocyanate, A.C.S.

$KSCN$ F.W. 97.18 CAS 333-20-0 Assay: 98.5% min [Potassium Sulfoyanate]

PT9699 500 g \$58.35

PT9699 2.5 kg \$157.55

Potassium Thiocyanate, 0.1 N

Aqueous Solution, 0.1000 N \pm 0.0005 N

PT1699 1 L \$20.95

PT1699 3.8 L \$44.30

Propionic Acid, 100 ppm in Phosphoric Acid, 1% (v/v)

Intended for Winery Laboratory use.

PP7895 3.8 L \$120.00

Propylene Glycol, A.C.S.

$C_3H_8O_2$ F.W. 76.10 d 1.036 CAS 57-55-6 Assay: 99.5% min. [1,2-Propanediol]

PG9315 1 L \$23.05

PG9315 3.8 L \$51.15

PG9315 4 x 3.8 L \$117.60

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 500 mL \$16.85

SE6500 1 L \$25.70

SE6500 3.8 L \$40.00

SE6500 4 x 3.8 L \$142.55

Ψ Selenium Atomic Absorption Standard, 1000 ppm

Selenium shot in 2% Nitric Acid; Verified NIST SRM 3149

SE7797	100 mL	\$15.55
SE7797	500 mL	\$42.15

Silicon Atomic Absorption Standard, 1000 ppm

Ammonium Hexafluorosilicate in water; Verified NIST SRM 3150

SI7798	100 mL	\$15.55
SI7798	500 mL	\$42.15

Ψ Silver Atomic Absorption Standard, 1000 ppm

Silver Nitrate in 2% Nitric Acid; Verified NIST SRM 3151 Light Sensitive.

AG7799	100 mL	\$15.55
AG7799	500 mL	\$42.15

Silver Nitrate, 0.0100 N Aqueous

0.0100 N \pm 0.0005 N (0.0095 - 0.0105 N)

SN1111	1 L	\$27.10
SN1111	3.8 L	\$62.35

Silver Nitrate, 0.0141 N Aqueous

0.0141 N \pm 0.0005 N (1.00 mL = 0.50 mg Cl⁻) For Chloride APHA 4500-Cl B.
Argentometric Method.

SN1110	500 mL	\$18.20
SN1110	1 L	\$27.10
SN1110	3.8 L	\$62.35

Silver Nitrate, 0.0171 N Aqueous

0.0171 N \pm 0.0005 N (1.00 mL = 1.00 mg NaCl)

SN1809	500 mL	\$18.40
SN1809	1 L	\$27.50
SN1809	3.8 L	\$62.95

Silver Nitrate, 0.025 N Aqueous

0.025 N \pm 0.0005 N (ASTM D512-04 B)

SN1708	500 mL	\$18.10
SN1708	1 L	\$27.00
SN1708	3.8 L	\$62.25

Silver Nitrate, 0.1000 N Aqueous

0.1000 N \pm 0.0005 N (0.0995 - 0.1005 N) NIST Traceable to SRM Potassium Chloride, 999b

SN1710	500 mL	\$22.15
SN1710	1 L	\$33.60
SN1710	3.8 L	\$77.25

Silver Nitrate, 0.1410 N Aqueous

0.1410 N \pm 0.005 N (0.995 - 1.005 N) 1.00 mL = 5.00 mg Cl⁻

SN1410	500 mL	\$31.20
SN1410	1 L	\$47.35
SN1410	3.8 L	\$108.90

Ψ Silver Nitrate, Crystal, A.C.S.

AgNO₃ F.W. 169.87 CAS 7761-88-8 Assay: 99.0% min. Light Sensitive.

SN9517	100g	\$94.25
SN9517	500g	\$471.00

SO₂ Indicator for Aeration-Oxidation Method

Methyl Red and Methylene Blue in 50% Ethanol; pH 4.2 (mauve) to pH 6.3 (green)

SI4321	500 mL	\$12.90
SI4321	1 L	\$22.40

Ψ Sodium Atomic Absorption Standard, 1000 ppm

Sodium Carbonate in 2% Nitric Acid; Verified NIST SRM 3152

NA7781	100 mL	\$15.55
NA7781	500 mL	\$42.15

Sodium Acetate, Trihydrate, A.C.S.

NaC₂H₃O₂·3H₂O F.W. 136.08 CAS 6131-90-4 Assay: 99.0 - 101.0%

SA9570	500g	\$24.70
SA9570	2.5 Kg	\$73.05

Sodium Acetate, Anhydrous, A.C.S.

NaC₂H₃O₂ F.W. 82.03 CAS 127-09-3 Assay: 99.0% min.

SA9571	500g	\$35.95
SA9571	2.5 Kg	\$107.85

Sodium Bicarbonate, Powder, USP/NF

NaHCO₃ F.W. 84.01 CAS 144-55-8 Assay: 99.0 - 100.5% [Baking Soda]

SB9377 500g \$16.85

SB9377 2.5 Kg \$44.95

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, NaHSO₃ and Sodium Metabisulfite, Na₂S₂O₅.

SB9387 500g \$21.55

SB9387 2.5 Kg \$60.70

Sodium Borate, Decahydrate, A.C.S.

Na₂B₄O₇·10H₂O F.W. 381.37 CAS 1303-96-4 Assay: 99.5 - 105.0%

[Borax; Sodium Tetraborate] pH of a 0.01 M solution @ 25°C is in the range 9.15 to 9.20

SB9598 500g \$18.80

SB9598 2.5 Kg \$61.80

Sodium Carbonate, Anhydrous, A.C.S.

Na₂CO₃ F.W. 105.99 CAS 497-19-8 Assay: 99.5% min. Hygroscopic

SA9580 500g \$21.25

SA9580 2.5 Kg \$61.75

Sodium Carbonate, Technical Grade

Na₂CO₃ F.W. 105.99 CAS 497-19-8

Hygroscopic

SC9427 500g \$15.45

SC9427 2.5 Kg \$39.50

Sodium Carbonate, 20% (w/v) Solution

For Total Phenolics in wine and must by the Colorimetric Method.

SC6820 1 L \$20.75

SC6820 3.8 L \$42.70

Sodium Chloride, Crystal, A.C.S.

NaCl F.W. 58.44 CAS 7647-14-5 Assay: 99.0% min.

[Salt]

SC9590 500g \$17.90

SC9590 2.5 Kg \$51.80

Sodium Chloride, 0.025 N

SC1025	1 L	\$26.15
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Sodium Chloride, 1% (w/v) Solution

Electrolyte 480 used in Can Liner Rater measurements.

SC6819	3.8 L	\$12.35
SC6819	4 x 3.8 L	\$38.20
SC6819	20 L	\$50.55

Sodium Chloride, 1%

Electrolyte 480 with Aerosol OTB used in Can Liner Rater measurements.

SC6619	20 L	\$31.24
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Ψ Sodium Chromate, Tetrahydrate, A.C.S.

Na₂CrO₄·4H₂O F.W. 234.06 CAS 10034-82-9 Assay: 99.0% min. [Disodium Chromate]

SC9592	500g	\$40.65
SC9592	2.5 Kg	\$157.30

Sodium Chromate, 4.2% (w/v) Indicator Solution

SC4513	500 mL	\$11.40
SC4513	1 L	\$17.95

Ψ Sodium Dichromate, Dihydrate, A.C.S.

Na₂Cr₂O₇·2H₂O F.W. 298.00 CAS 7789-12-0 Assay: 99.5% min. [Sodium Bichromate]

SD9593	500g	\$52.80
SD9593	2.5 Kg	\$168.55

Sodium Fluoride, A.C.S.

NaF F.W. 41.99 CAS 7681-49-4

SF8255	25 g	\$18.15
SF8255	100 g	\$20.85

Sodium Hydroxide, 0.01 N Aqueous

0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)

SH1130	1 L	\$11.80
SH1130	3.8 L	\$23.45
SH1130	4 x 3.8 L	\$54.05
SH1130	20 L	\$65.70

Sodium Hydroxide, 0.0167 N Aqueous

For Volatile Acidity in wine.

SH1167	1 L	\$11.80
SH1167	3.8 L	\$23.45
SH1167	4 x 3.8 L	\$54.05
SH1167	20 L	\$65.70

Sodium Hydroxide, 0.02 N Aqueous

(N/50) 0.0200 N \pm 0.0002 N (0.0198 - 0.0202 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1140	1 L	\$11.80
SH1140	3.8 L	\$23.45
SH1140	4 x 3.8 L	\$54.05
SH1140	20 L	\$65.70

Sodium Hydroxide, 0.05 N Aqueous

(N/20) 0.0500 N \pm 0.0005 N (0.0495 - 0.0505 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1150	1 L	\$11.80
SH1150	3.8 L	\$23.45
SH1150	20 L	\$65.70

Sodium Hydroxide, 0.0667 N Aqueous

For Total Titratable Acidity in wine. AOAC 962.12

SH1667	1 L	\$11.80
SH1667	3.8 L	\$23.45
SH1667	4 x 3.8 L	\$65.70

Sodium Hydroxide, 0.10 N Aqueous

(N/10) 0.1000 N \pm 0.0005 N (0.0995 - 0.1005 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1160	1 L	\$11.80
SH1160	3.8 L	\$23.45
SH1160	10 L	\$36.55
SH1160	4 x 3.8 L	\$54.05
SH1160	20 L	\$65.70

Sodium Hydroxide, 0.133 N Aqueous

5.32 g of Sodium Hydroxide, Pellets, ACS per Liter of solution.

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1133	1 L	\$11.80
SH1133	3.8 L	\$23.45
SH1133	4 x 3.8 L	\$54.05
SH1133	20 L	\$65.70

Sodium Hydroxide, 0.2 N (N/5) Aqueous

8 grams Sodium Hydroxide per Liter of solution; 0.2000 N \pm 0.0005 N.

SH1155	1 L	\$11.80
SH1155	3.8 L	\$23.45
SH1155	4 x 3.8 L	\$65.70

Ψ Sodium Hydroxide, 0.25 N Aqueous

(N/4) 0.2500 N \pm 0.0005 N (0.2495 - 0.2505 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1170	1 L	\$11.80
SH1170	3.8 L	\$23.45
SH1170	4 x 3.8 L	\$54.05
SH1170	20 L	\$65.70

Ψ Sodium Hydroxide, 0.5 N Aqueous

(N/2) 0.500 N \pm 0.002 N (0.498 – 0.502 N)

SH1089	1 L	\$11.80
SH1089	3.8 L	\$23.45
SH1089	4 x 3.8 L	\$54.05
SH1089	20 L	\$65.70

Ψ Sodium Hydroxide, 1.0 N Aqueous

1.000 N \pm 0.005 N (0.995 - 1.005 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1180	1 L	\$11.80
SH1180	3.8 L	\$23.45
SH1180	4 x 3.8 L	\$54.05
SH1180	20 L	\$65.70

Ψ Sodium Hydroxide, 3.0 N Aqueous

3.00 N ± 0.05 N (2.95 - 3.05 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1185	1 L	\$11.80
SH1185	3.8 L	\$37.10
SH1185	4 x 3.8 L	\$85.25
SH1185	20 L	\$103.80

Ψ Sodium Hydroxide, 5.0 N Aqueous

5.00 N ± 0.05 N (4.95 - 5.05 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1190	1 L	\$15.25
SH1190	3.8 L	\$44.35
SH1190	4 x 3.8 L	\$102.05
SH1190	20 L	\$124.30

Ψ Sodium Hydroxide, 6.0 N Aqueous

6.00 N ± 0.05 N (5.95 - 6.05 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1200	1 L	\$15.25
SH1200	3.8 L	\$44.35
SH1200	4 x 3.8 L	\$102.05
SH1200	20 L	\$124.30

Ψ Sodium Hydroxide, 10.0 N Aqueous

10.00 N ± 0.05 N (9.95 - 10.05 N)

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1210	1 L	\$15.25
SH1210	3.8 L	\$44.35
SH1210	4 x 3.8 L	\$102.05
SH1210	20 L	\$124.30

Sodium Hydroxide, 2% (w/v) Aqueous

20 grams Sodium Hydroxide per Liter of solution. ~ 0.5 Molar

SH6585	1 L	\$11.80
SH6585	3.8 L	\$23.50
SH6585	4 x 3.8 L	\$54.00
SH6585	20 L	\$65.70

Sodium Hydroxide, 3% (w/v) Aqueous [CalTrans Test 213]

30 grams Sodium Hydroxide per Liter of solution ~ 0.75 Molar

(Method of Test for Organic Impurities in Concrete Sand)

SH6117 1 L \$11.80

SH6117 3.8 L \$23.50

Ψ Sodium Hydroxide, 5% (w/v) Aqueous

50 grams Sodium Hydroxide per Liter of solution. ~ 1.25 Molar

SH6530 1 L \$11.80

SH6530 3.8 L \$23.50

SH6530 4 x 3.8 L \$54.05

SH6530 20 L \$59.00

Ψ Sodium Hydroxide, 10% (w/v) Aqueous

100 grams Sodium Hydroxide per liter of solution. ~ 2.5 Molar

SH6595 1 L \$11.80

SH6595 3.8 L \$23.50

SH6595 20 L \$59.00

Ψ Sodium Hydroxide, 17.5% (w/v) Aqueous

175 grams of Sodium Hydroxide per Liter of solution.

4.375 N ± 0.0438 N (± 1% by weight)

SH6550 1 L \$15.25

SH6550 3.8 L \$44.35

SH6550 10 L \$64.60

SH6550 20 L \$97.90

Ψ Sodium Hydroxide, 20% (w/v) Aqueous

200 g Sodium Hydroxide per Liter of solution. 5 N

SH6720 1 L \$15.25

SH6720 3.8 L \$44.35

SH6720 4 x 3.8 L \$102.05

Ψ Sodium Hydroxide, 30% (w/w), Technical Grade

9.958 Molar (Normal) density (d) 1.3277 g/mL

SH6530 3.8 L \$22.45

SH6530 4 x 3.8 L \$51.65

SH6530 20 L \$67.40

Ψ Sodium Hydroxide, 40% (w/v) Aqueous Solution

400 g Sodium Hydroxide per Liter of solution. For Kjeldahl Nitrogen. 10 N

SH6170	3.8 L	\$44.35
SH6170	4 x 3.8 L	\$102.05
SH6170	20 L	\$123.60

Ψ Sodium Hydroxide, 50% (w/v)

500 g Sodium Hydroxide per Liter of solution. 12.5 N

SH6180	3.8 L	\$44.35
SH6180	4 x 3.8 L	\$102.05
SH6180	20 L	\$123.60

Ψ Sodium Hydroxide, 50% (w/w) Technical

Approximately 19 N, ~763 g Sodium Hydroxide per Liter (76.3% w/v) d=1.53

Difference between 50% (w/w) and 50% (w/v) is 263 grams/L of Sodium Hydroxide!

SH9150	1 L	\$13.65
SH9150	3.8 L	\$25.95
SH9150	4 x 3.8 L	\$59.75

Ψ Sodium Hydroxide, Pellets, A.C.S.

NaOH F.W. 40.00 CAS 1310-73-2 Assay: 97.0% min. [Caustic Soda]

SH9595	500g	\$21.35
SH9595	2.5 Kg	\$62.90

Ψ Sodium Hydroxide, Beads, Technical Grade

NaOH F.W. 40.00 CAS 1310-73-2 Assay: 97.0% min. [Caustic Soda]

SH9445	500 g	\$15.15
SH9445	2.5 kg	\$33.70
SH9445	12 kg	\$94.30

Ψ Sodium Hypochlorite Solution, 5% Available Chlorine

NaOCl F.W. 74.44 d 1.097 CAS 7681-52-9 contains ~ 2.5% NaOH

SH9438	1 L	\$9.20
SH9438	3.8 L	\$21.35

Sodium Phosphate, Dibasic, Anhydrous, A.C.S.

Na₂HPO₄ F.W. 141.96 CAS 7558-79-4 Assay: 99.0% min. [Disodium Hydrogen Phosphate]

SP9515	500g	\$29.20
SP9515	2.5 Kg	\$83.70

Sodium Salicylate, Crystal, Reagent

$C_7H_5NaO_3$ F.W. 160.10 CAS 54-21-7 Assay: 99.0% min. [2-Hydroxybenzoic Acid Sodium Salt]

SS9482	500 g	\$54.20
SS9482	2.5 kg	\$146.35

Sodium Sulfate, Anhydrous, A.C.S.

Na_2SO_4 F.W. 142.04 CAS 7757-82-6 Assay: 99.0% min. Hygroscopic

SS9525	500g	\$18.55
SS9525	2.5 Kg	\$51.25

Sodium Sulfate, Anhydrous, Technical

Na_2SO_4 F.W. 142.04 CAS 7757-82-6 Assay: 99.0% min. Hygroscopic

SS9425	500 g	\$15.15
SS9425	2.5 kg	\$40.95

Sodium Sulfate, 2% (w/v) Aqueous Solution

Can Liner Rater Electrolyte 470

SS6821	3.8 L	\$14.05
SS6821	4 x 3.8 L	\$36.50
SS6821	20 L	\$39.90

Sodium Sulfate, 2% (w/v) Dry Powder in HDPE Container

Just add 5 gallons of Distilled Water! Why pay freight for water?

SS6824	20 L	\$30.30
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Sodium Sulfate, Saturated, Solution [CalTrans Test 214]

281 g Sodium Sulfate per Liter at 20°C (Method of Test for the Soundness of Aggregates)

SS6136	1 L	\$28.60
SS6136	3.8 L	\$65.75

Sodium Sulfit, Anhydrous, A.C.S.

Na_2SO_3 F.W. 126.04 CAS 7757-83-7 Assay: 98.0% min. Moisture Sensitive

SS9535	500g	\$20.80
SS9535	2.5 Kg	\$59.25

Sodium Sulfit, Technical

Na₂SO₃ F.W. 126.04 CAS 7757-83-7 Assay: 98.0% min. Moisture Sensitive

SS9543	500 g	\$14.70
SS9543	2.5 kg	\$43.75

Sodium Sulfit, 1.0 Molar Aqueous

For de-chlorination 126.04 grams of Sodium Sulfit, Anhydrous, A.C.S. per Liter of solution.

SS1911	1 L	\$15.10
SS1911	3.8 L	\$29.70

Sodium Thiosulfate, 0.01 N Aqueous

0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1220	500 mL	\$10.70
ST1220	1 L	\$13.80
ST1220	3.8 L	\$24.40

Sodium Thiosulfate, 0.02 N Aqueous

0.0200 N ± 0.0005 N

ST1220	500 mL	\$10.70
ST1220	1 L	\$13.80
ST1220	3.8 L	\$24.40

Sodium Thiosulfate, 0.025 N Aqueous

0.0250 N ± 0.0005 N (0.0245 - 0.0255 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1230	500 mL	\$10.70
ST1230	1 L	\$13.80
ST1230	3.8 L	\$24.40

Sodium Thiosulfate, 0.0375 N Aqueous

0.0375 N ± 0.0005 N (0.0370 - 0.0380 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1240	500 mL	\$10.70
ST1240	1 L	\$13.80
ST1240	3.8 L	\$24.40

Sodium Thiosulfate, 0.1 N Aqueous

0.1000 N \pm 0.0005 N (0.0995 - 0.1005 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1250	500 mL	\$10.70
ST1250	1 L	\$13.80
ST1250	3.8 L	\$24.40
ST1250	4 x 3.8 L	\$56.05

Sodium Thiosulfate, 1.0 N Aqueous

1.000 N \pm 0.005 N (0.995 - 1.005 N) 248 g/L Sodium Thiosulfate, Pentahydrate in 1 N solution

Standardized with Potassium Dichromate, NIST SRM 136e

ST1260	500 mL	\$16.95
ST1260	1 L	\$24.40
ST1260	3.8 L	\$64.25

Sodium Thiosulfate, Pentahydrate, Photo

Na₂S₂O₃·5H₂O F.W. 248.19 CAS 10102-17-7 Assay: 99.0 - 101.0%

[Sodium Hyposulfite]

ST9545	500g	\$16.95
ST9545	2.5 Kg	\$47.45
ST9545	5 kg	\$71.20
ST9545	12 kg	\$106.55

Sorbic Acid Standard, 250 ppm(mg/L)

Potassium Sorbate dissolved in distilled or de-ionized water.

SS7123	100 mL	\$13.50
SS7123	500 mL	\$19.70
SS7123	1 L	\$26.95

Starch, Soluble, Powder, A.C.S.

(C₆H₁₀O₅)_n CAS 9005-84-9 Suitable for Iodometry.

ST9585	500g	\$29.85
ST9585	2.5 Kg	\$106.55

Starch Indicator, 1% (w/v) Aqueous Solution

Contains Thymol as a preservative!

SI4990	500 mL	\$11.50
SI4990	1 L	\$14.95
SI4990	3.8 L	\$34.40

Strontium Atomic Absorption Standard, 1000 ppm

Strontium Carbonate in 2% Nitric Acid; Verified NIST SRM 3153

SR7782	100 mL	\$14.65
SR7782	500 mL	\$39.75

Sulfuric Acid, 0.02 N Aqueous

0.0200 N \pm 0.0005 N (0.0195 - 0.0205 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1270	1 L	\$10.50
SA1270	3.8 L	\$21.45
SA1270	4 x 3.8 L	\$49.30

Sulfuric Acid, 0.04 N Aqueous

0.0400 N \pm 0.0005 N (0.0395 - 0.0405 N) For APHA Nitrogen as Ammonia (ASTM D-3327).

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1275	1 L	\$10.50
SA1275	3.8 L	\$21.45
SA1275	4 x 3.8 L	\$49.30

Sulfuric Acid, 0.1 N Aqueous

0.1000 N \pm 0.0005 N (0.0995 - 0.1005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1290	1 L	\$10.50
SA1290	3.8 L	\$21.45
SA1290	4 x 3.8 L	\$49.30

Sulfuric Acid, 0.2 N Aqueous

0.2000 N \pm 0.0005 N (0.1995 - 0.2005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1300	1 L	\$10.50
SA1300	3.8 L	\$21.45
SA1300	4 x 3.8 L	\$49.30

Sulfuric Acid, 0.5 N Aqueous

0.5000 N \pm 0.0005 N (0.4995 - 0.5005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1310	1 L	\$10.50
SA1310	3.8 L	\$21.45
SA1310	4 x 3.8 L	\$49.30

Sulfuric Acid, 1.0 N Aqueous

1.000 N \pm 0.005 N (0.995 - 1.005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1320	1 L	\$10.50
SA1320	3.8 L	\$21.45
SA1320	4 x 3.8 L	\$49.30

Sulfuric Acid, 1.5 N Aqueous

1.500 N \pm 0.005 N (0.995 - 1.005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1320	1 L	\$10.50
SA1320	3.8 L	\$21.45
SA1320	4 x 3.8 L	\$49.30

Ψ Sulfuric Acid, 2.0 N Aqueous

2.000 N \pm 0.005 N (1.995 - 2.005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1330	1 L	\$10.50
SA1330	3.8 L	\$21.45
SA1330	4 x 3.8 L	\$49.30

Ψ Sulfuric Acid, 5.0 N Aqueous

5.000 N \pm 0.005 N (4.995 - 5.005 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1340	1 L	\$16.45
SA1340	3.8 L	\$48.25
SA1340	4 x 3.8 L	\$110.95

Ψ Sulfuric Acid, 5.25 N Aqueous

5.250 ± 0.005 N (5.245 - 5.255 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1350	1 L	\$16.45
SA1350	3.8 L	\$48.25
SA1350	4 x 3.8 L	\$110.95

Ψ Sulfuric Acid, 10.0 N Aqueous

10.00 N ± 0.05 N (9.95 - 10.05 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1360	1 L	\$16.45
SA1360	3.8 L	\$48.25
SA1360	4 x 3.8 L	\$110.95

Ψ Sulfuric Acid, 19.2 N Aqueous

19.20 N ± 0.05 N (19.15 - 19.25 N)

Standardized with Sodium Hydroxide that has been standardized with Potassium Hydrogen Phthalate

SA1370	1 L	\$16.45
SA1370	3.8 L	\$48.25
SA1370	4 x 3.8 L	\$110.95

Ψ Sulfuric Acid, 25% (v/v), (1 + 3) Aqueous

M = N This aqueous solution is about 9 N and is equivalent to Gold Coast Solution 4.

GC6284	1 L	\$21.50
GC6284	3.8 L	\$48.65
GC6284	4 x 3.8 L	\$110.95
GC6284	10 L	\$74.30
GC6284	20 L	\$111.30

Ψ Sulfuric Acid, 10% (w/w) Aqueous

1.087 M = 2.174 N d = 1.0661 g/cm³

SA6610	1 L	\$13.35
SA6610	3.8 L	\$30.75

Ψ Sulfuric Acid, 14% (w/w) Aqueous

1.563 Molar = 3.126 N d 1.0947 g/mL

SA6614	1 L	\$13.80
SA6614	3.8 L	\$31.75

Ψ Sulfuric Acid, 18% (w/w) Aqueous

2.064 Molar = 4.128 N d 1.1245

SA6813	3.8 L	\$30.75
SA6813	4 x 3.8 L	\$70.70

Ψ Sulfuric Acid, 20% (w/w) Aqueous

2.324 Molar with density of 1.1398 g/mL

SA6480	1 L	\$16.00
SA6480	3.8 L	\$30.75

Ψ Sulfuric Acid, 30% (w/w) Aqueous

3.729 M = 7.458 N d 1.2191

SA6482	1 L	\$16.00
SA6482	3.8 L	\$30.75
SA6482	4 x 3.8 L	\$70.70

Ψ Sulfuric Acid, 36% (w/w) Aqueous

4.656 M = 9.312 N d 1.2685

SA9436	1 L	\$16.00
SA9436	3.8 L	\$30.75
SA9436	4 x 3.8 L	\$70.70

Ψ Sulfuric Acid, 40% (w/w) Aqueous

5.313 M = 10.626 N d 1.3028

SA6488	1 L	\$16.00
SA6488	3.8 L	\$30.75
SA6488	4 x 3.8 L	\$70.70

Ψ Sulfuric Acid, 50% (w/w) Aqueous

7.113 M = 14.226 N d 1.3952

SA6483	1 L	\$16.00
SA6483	3.8 L	\$30.75
SA6483	4 x 3.8 L	\$74.95

Ψ Sulfuric Acid, 70% (v/v), Aqueous

7.113 M = 14.226 N d 1.3952

SA6487	1 L	\$16.00
SA6487	3.8 L	\$30.75

Ψ Sulfuric Acid, A.C.S.

H₂SO₄ F.W. 98.08 d 1.840 CAS 7664-93-9 Assay: 95.0 - 98.0% [Oil of Vitriol]
M = 2 N; concentrated Sulfuric Acid is about 36 N; DEA list 2 chemical.

SA9090	500 mL	\$17.80
SA9090	2.5 L	\$31.80
SA9090	3.8 L	\$38.40
SA9090	4 x 3.8 L	\$88.35

Ψ Sulfuric Acid, 66° Baume

H₂SO₄ F.W. 98.08 d 1.820 CAS 7664-93-9 Assay: 91.0 - 95.0% [Oil of Vitriol]
DEA list 2 chemical; approx. 93% (w/w)

SA9233	1 L	\$16.30
SA9233	3.8 L	\$21.20
SA9233	4 x 3.8 L	\$59.35

Thorium Nitrate, 0.0005 Molar Aqueous

Th(NO₃)₄·4H₂O F.W. 552.12 CAS 13470-07-0 For Fluoride and Phosphonates by titration.

TN1305	1 L	\$53.00
TN1305	3.8 L	\$121.90

Thymolphthalein, 0.05% in Ethyl Alcohol

pH 9.3 (Colorless) – pH 10.5 (Blue)

SI4439	100 mL	\$12.10
SI4439	500 mL	\$15.85

Ψ Tin Atomic Absorption Standard, 1000 ppm

Tin shot in 20% Hydrochloric Acid; Verified NIST SRM 3161

SN7783	100 mL	\$14.60
SN7783	500 mL	\$39.75

Total Ionic Strength Adjustment Buffer (TISAB II)

For Fluoride Ion-Specific Electrode (ISE) contains 1, 2-Cyclohexylenediaminetetraacetic Acid (CDTA), Acetic Acid, Glacial, Sodium Hydroxide, water and Sodium Chloride.

TI2140	1 L	\$27.65
TI2140	3.8 L	\$63.70
TI2140	20 L	\$154.55

Triton™ X-100 Surfactant

Octylphenol Ethoxylate a nonionic surfactant with excellent wetting and dispersant properties.
Sp. Gr. 1.065, Viscosity (Brookfield) 240 cS , Color (APHA) 100 max.

TX9442	500 mL	\$31.80
TX9442	1 L	\$41.65
TX9442	3.8 L	\$95.80

Tungsten Atomic Absorption Standard, 1000 ppm

Sodium Tungstate in water; Verified NIST SRM 3163

W7784	100 mL	\$14.60
W7784	500 mL	\$39.75

Urea, A.C.S.

CH₄N₂O F.W. 60.06 CAS 57-13-6 Assay: 99.0 - 100.5% [Carbamide; Carbonyl Diamide]

UR9409	500g	\$16.75
UR9409	2.5 Kg	\$46.55

Ψ Xylenes, Laboratory Grade

C₈H₁₀ F.W. 106.17 d 0.860 CAS 1330-20-7 [Dimethylbenzenes; Xylol]

This reagent is a mixture of ortho-, meta-, and para- isomers and may contain ethylbenzene.

XY9295	3.8 L	\$32.20
XY9295	4 x 3.8 L	\$89.05

Xylenol Orange, 0.1% (w/v) Aqueous

C₃₁H₂₆N₂Na₄O₁₃S F.W. 760.59 CAS 3618-43-7

Suitable for EDTA Back Titration of Nickel with Zinc. Visual Transition from red purple to lemon yellow.

XO4001	100 mL	\$18.75
XO4001	500 mL	\$31.15

Ψ Zinc Atomic Absorption Standard, 1000 ppm

Zinc Carbonate (ZnCO₃) in 2% Nitric Acid; Verified NIST SRM 3168

ZN7784	100 mL	\$14.60
ZN7784	500 mL	\$39.75

Zinc Sulfate, Heptahydrate, A.C.S.

ZnSO₄·7H₂O F.W. 287.56 CAS 7446-20-0 Assay: 99.0 - 103.0% Hygroscopic

ZS9587	500g	\$22.65
ZS9587	2.5 Kg	\$62.80

Ψ Zirconium Atomic Absorption Standard, 1000 ppm

Zirconyl Nitrate ($\text{ZrO}(\text{NO}_3)_2$) in 10% Nitric Acid; Verified NIST SRM 3169

ZR7786 100 mL \$14.60

ZR7786 500 mL \$39.75

Legend:

ACS - American Chemical Society

AOAC - Association of Official Analytical Chemists

APHA - American Public Health Association

ASTM - American Society for Testing and Materials

Baumé Scale - For liquids heavier than water: $\text{Sp.Gr.} = 145 \div (145 - \text{degrees Baumé})$

BOD - Biochemical Oxygen Demand

CAS - Chemical Abstract Service

°C - Degrees Centigrade or Celsius ($5/9 \times (°\text{F} - 32)$)

COD - Chemical Oxygen Demand

d - Density, grams per milliliter

DEA - Drug Enforcement Agency

EDTA - Ethylenediaminetetraacetic Acid; Ethylenedinitrilotetraacetic Acid

F.W. - Formula Weight

g – grams

HDPE – High Density PolyEthylene

ISE - Ion Specific Electrode

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