

Ψ Acetate Buffer Solution, pH 4.0

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

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

AB2005	500 mL
AB2005	1 L
AB2005	3.8 L
AB2005	4 x 3.8 L
AB2005	10 L
AB2005	20 L

Ψ Acetate Buffer Solution, pH 4.2

Acetic Acid - Acetate Anion Buffer

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

AB2042	500 mL
AB2042	1 L
AB2042	3.8 L
AB2042	4 x 3.8 L
AB2042	10 L
AB2042	20 L

Ψ Acetic Acid, Glacial, A.C.S. Grade

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] Chemical Abstract Service (CAS) Registry Number

Hygroscopic, Corrosive, Flammable.

AA9010	500 mL
AA9010	1 L
AA9010	2.5 L
AA9010	3.8 L
AA9010	4 x 3.8 L

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, Corrosive, Flammable.

AA9410	500 mL
AA9410	2.5 L
AA9410	3.8 L
AA9410	4 x 3.8 L
AA9410	10 L
AA9410	20 L

Acetic Acid, 5% (w/v)

Approximately 0.83 Molar

AA6535 1 L
AA6535 3.8 L
AA6535 4 x 3.8 L

Acetic Acid, 10% (w/w)

Actually 1.685 M, density 1.0121 g/mL

AA6210 1 L
AA6210 3.8 L
AA6210 4 x 3.8 L

Acetic Acid, 20% (v/v)

Actually 3.49 M, d= 1.0250 g/mL

AA6420 1 L
AA6420 3.8 L
AA6420 4 x 3.8 L

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

Prepared from 460 mL of Acetic Acid, glacial diluted to 1 L

AA9480 3.8 L
AA9480 4 x 3.8 L

Acetic Acid, 50% (v/v)

Approximately 8.7 Molar

AA6484 1 L
AA6484 3.8 L
AA6484 4 x 3.8 L

Acetic Acid Standard, 100 mg/L (ppm)

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

AA7500 100 mL

Acetic Acid Standard, 250 mg/L (ppm)

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

AA7510 100 mL

Acetic Acid Standard, 300 mg/L (ppm)

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

AA7520 100 mL

Acetic Acid Standard, 500 mg/L (ppm)

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

AA7530 100 mL

Acetic Acid Standard, 750 mg/L (ppm)

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

AA7540 100 mL

Acetic Acid Standard, 800 mg/L (ppm)

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

AA7550 100 mL

Acetic Acid Standard, 1,000 mg/L (ppm)

1,000 mg/L (1,000 ppm) in 10% (v/v) Ethanol

AA7560 100 mL

Acetic Acid Standard, 1,200 mg/L (ppm)

1,200 mg/L (1,200 ppm) in 10% (v/v) Ethanol

AA7570 100 mL

Acetic Acid Standard, 2,500 mg/L (ppm)

2,500 mg/L (2,500 ppm) in 10% (v/v) Ethanol

AA7580 100 mL

Ψ Acetone, A.C.S. Grade

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

[2-Propanone; Dimethyl Ketone] Flammable.

AC9020 500 mL

AC9020 1 L

AC9020 3.8 L

AC9020 4 x 3.8 L

Ψ Acetone, Technical Grade

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

[2-Propanone; Dimethyl Ketone] Flammable.

AC9420 500 mL

AC9420 1 L

AC9420 3.8 L

AC9420 4 x 3.8 L

AC9420 20 L

Acetone, 10% (v/v)

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

AO6258 3.8 L

AO6258 4 x 3.8 L

Ψ Alcohol, Denatured, Reagent, A.C.S. Grade

$\text{CH}_3\text{CH}_2\text{OH}$ F.W. 46.07 $d = 0.785 \text{ g/mL}$ CAS 64-17-5 Assay: Methanol and Ethanol 94.0 - 96.0% (v/v) Contains SDA 3A and about 5% Isopropyl Alcohol, Isopropanol: 4.0 - 6.0% (v/v)

AD9100 1 L

AD9100 3.8 L

AD9100 4 x 3.8 L

Ψ Aluminum Atomic Absorption Standard, 1000 mg/L (ppm)

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

AL7700 100 mL

AL7700 500 mL

Aluminum Chloride, Hexahydrate, Reagent Grade

$\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ F.W. 241.43 CAS 7784-13-6

AC9547 100 g

AC9547 500 g

Ammonium Acetate, Crystal, A.C.S. Grade

$\text{NH}_4\text{C}_2\text{H}_3\text{O}_2$ F.W. 77.08 CAS 631-61-8 Assay: 97% min.

AA9599 500 g

AA9599 2.5 kg

Ammonium Chloride, A.C.S. Grade

NH_4Cl F.W. 53.49 CAS 12125-02-9 Assay: 99.5% min. [Sal Ammoniac]

AC9500 500 g

AC9500 2.5 kg

Ammonium Chloride, Technical Grade

NH_4Cl F.W. 53.49 CAS 12125-02-9 Assay: 99.5% min. Untreated (No anti-caking agent)

AC9487 500 g

AC9487 2.5 kg

Ψ Ammonium Chloride Buffer, pH 9.5 @ 25°C

Ammonium Chloride-Ammonium Hydroxide

AC2150 1 L
AC2150 3.8 L

Ψ Ammonium Chloride Buffer, pH 10.0 @ 25°C

Ammonium Chloride - Ammonium Hydroxide

AC2160 1 L
AC2160 3.8 L
AC2160 4 x 3.8 L

Ammonium Hydroxide, 3% Solution

30 mL of Ammonium Hydroxide, A.C.S. in 970 mL of de-ionized water.

AH6010 500 mL
AH6010 1 L

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

One volume of Ammonium Hydroxide, A.C.S. to three volumes of de-ionized water.

AH6829 500 mL
AH6829 1 L
AH6829 3.8 L

Ψ Ammonium Hydroxide, 50% (v/v) Solution [1 + 1]

One volume Ammonium Hydroxide, A.C.S. to an equal volume of water.

AH6827 1 L
AH6827 3.8 L

Ψ Ammonium Hydroxide, A.C.S. Grade

*NH₄OH F.W. 35.05 d= 0.898 g/mL CAS 1336-21-6 Assay: 28.0 - 30.0% as NH₃
[Aqueous Ammonia; Strong Ammonia Solution] Corrosive.*

AH9030 500 mL
AH9030 2.5 L
AH9030 3.8 L
AH9030 4 x 3.8 L

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

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

AP9502 500 g
AP9502 2.5 kg
AP9502 5 kg
AP9502 12 kg

Ammonium Sulfate, A.C.S. Grade

$(NH_4)_2SO_4$ F.W. 132.14 CAS 7783-20-2 Assay: 99.0% min.

AS9600 500 g

AS9600 2.5 kg

Ammonium Thiocyanate, A.C.S. Grade

NH_4SCN F.W. 76.12 CAS 1762-95-4 Assay: 97.5% min.

AT9571 500 g

AT9571 1 kg

Ammonium Thiocyanate, 0.01 N (N/100) Aqueous

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

AT1011 1 L

AT1011 3.8 L

Ammonium Thiocyanate, 0.1 N (N/10) Aqueous

About 8 g per L, 0.1000 N \pm 0.0005 (0.0995 - 0.1005 N)

AT1012 1 L

AT1012 3.8 L

Anti-Foam B

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

AF6230 60 mL

AF6230 120 mL

AF6230 500 mL

AF6230 1 L

Antimony Atomic Absorption Standard, 1000 mg/L (ppm)

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

SB7710 100 mL

SB7710 500 mL

Ascorbic Acid, Powder, USP Grade

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

AA9503 500 g

AA9503 1 kg

Ψ Barium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

BA7720 100 mL

BA7720 500 mL

Ψ Barium Chloride, Dihydrate, A.C.S. Grade

BaCl₂·2H₂O F.W. 244.26 CAS 10326-27-9 Assay: 99.0%

BC9610 500 g

BC9610 2.5 kg

Barium Chloride, 10% (w/v) Aqueous

For Sulfate, APHA 4500-SO₄ C. Gravimetric Method

BC6030 1 L

BC6030 3.8 L

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

BD4380 500 mL

BD4380 1 L

Ψ Barium Hydroxide, Octahydrate, A.C.S. Grade

Ba(OH)₂·8H₂O F.W. 315.464 CAS 12230-71-6 Assay: Not less than 98.0%

Each mL of 1N Hydrochloric Acid corresponds to 0.1577 g of Ba(OH)₂·8H₂O

BH9527 500 g

Barium Hydroxide, Saturated, Aqueous

49.1 grams per liter approximately.

BH6831 1 L

BH6831 3.8 L

Basic Fuchsin, 0.2% (w/v) Aqueous

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

BF4121 100 mL

BF4121 500 mL

Borate Buffer Solution, pH 9.5 @ 25° C

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

BB2020 1 L

Boric Acid, Crystal, A.C.S. Grade

H_3BO_3 F.W. 61.83 CAS 10043-35-3 Assay: 99.5% min. [orthoBoric Acid; Boracic Acid]

BA9504 500 g

BA9504 2.5 kg

Boric Acid, Technical Grade

H_3BO_3 F.W. 61.83 CAS 10043-35-3

BA9440 500 g

BA9440 2.5 kg

Boric Acid Solution, 40 g/L Aqueous

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

BA6921 1 L

BA6921 3.8 L

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

For Nitrogen (Ammonia), APHA 4500 - NH_3 E. Titrimetric Method. Methyl Red-Methylene Blue Mixed Indicator.

BA6042 500 mL

BA6042 1 L

BA6042 3.8 L

BA6042 4 x 3.8 L

BA6042 10 L

BA6042 20 L \$ 105.25

Boric Acid Solution, 4% (w/v) Indicator Solution

For Nitrogen (Ammonia), APHA 4500 - NH_3 E. Titrimetric Method. Bromocresol Green - Methyl Red Indicator, for Kjeldahl Nitrogen Analysis.

BA6040 500 mL

BA6040 1 L

BA6040 3.8 L

BA6040 4 x 3.8 L

BA6040 10 L

BA6040 20 L

Boric Acid Solution, 0.25 M

About 15.5 g of Boric Acid per Liter of solution.

BA6545 1 L

BA6545 3.8 L

Boron Atomic Absorption Standard, 1,000 mg/L (ppm)

Boric Acid in water; Verified NIST SRM 3107

B7730 **100 mL**

B7730 **500 mL**

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

C₂₁H₁₃Br₄O₅Na F.W. 720.00 CAS 62625-32-5

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

BG4444 **5 g**

BG4444 **10 g**

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

pH 3.8 (Yellow) - pH 5.4 (Blue)

BG4010 **500 mL**

BG4010 **1 L**

BG4010 **3.8 L**

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

pH 3.8 (Yellow) - pH 5.4 (Blue)

BG4020 **500 mL**

BG4020 **1 L**

BG4020 **3.8 L**

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

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

BP4030 **500 mL**

BP4030 **1 L**

BP4030 **3.8 L**

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

C₁₉H₉Br₄O₅Na F.W. 691.97 CAS 62625-28-9

BP4041 **5 g**

BP4041 **10 g**

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

pH 3.0 (Yellow) - pH 4.6 (Blue)

BB4040 **500 mL**

BB4040 **1 L**

BB4040 **3.8 L**

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

C₂₇H₂₇O₅SBr₂Na F.W. 646.38 CAS 34722-90-2 pH 6.0 (Yellow) - pH 7.6 (Blue)
[3', 3''-Dibromothymolsulfonphthalein Sodium]

BT4051 5 g

BT4051 10 g

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

pH 6.0 (Yellow) - pH 7.6 (Blue)

BT4050 500 mL

BT4050 1 L

BT4050 3.8 L

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 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

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

NH₄F Assay: 33.6 - 34.6% HF Assay: 7.08 - 7.38%

BO6546 3.8 L

BO6546 4 x 3.8 L

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

BO6547 4 x 3.8 L

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

BO6548 3.8 L

BO6548 4 x 3.8 L

Buffer Standard, pH 1.68 @ 25° C (Colorless)

Potassium Chloride and Hydrochloric Acid

BS2168 500 mL

BS2168 1 L

Buffer Standard, pH 2.00 @ 25° C (Colorless)

Potassium Chloride and Hydrochloric Acid

BS2202 500 mL

BS2202 1 L

Buffer Standard, pH 3.00 @ 25° C (Purple)

Potassium Hydrogen Phthalate – based buffer for Winery Lab use.

BS2300 1 L

BS2300 3.8 L

Buffer Standard, pH 4.01 @ 25° C (Red)

Potassium Hydrogen Phthalate, pH 4.01 ± 0.01 @ 25° C

NIST Traceable Buffer.

pH vs. Temperature on label.

BR2030 500 mL \$9.10

BR2030 1 L

BR2030 3.8 L

BR2030 4 x 3.8 L

BR2030 20 L

Buffer Standard, 4.75 @ 25° C (Orange)

Phthalate-based adjusted with Sodium Hydroxide Solution

BO2475 1 L

BO2475 3.8 L

Buffer Standard, pH 6.864 @ 25° C (Colorless)

Potassium Phosphate, Monobasic and Sodium Phosphate, Dibasic NIST Traceable Buffer.

BC2040 500 mL

BC2040 1 L

BC2040 3.8 L

Buffer Standard, pH 7.00 @ 25° C (Yellow)

Potassium Phosphate, Monobasic - Sodium Hydroxide

pH vs. Temperature on label.

BY2050 500 mL \$9.10

BY2050 1 L

BY2050 3.8 L

BY2050 4 x 3.8 L

BY2050 20L

Buffer Standard, pH 8.0 @ 25° C (Colorless)

Potassium Phosphate, Monobasic - Sodium Hydroxide

BC2060 500 mL

BC2060 1L

BC2060 3.8 L

Buffer Standard, pH 9.186 @ 25° C (Colorless)

Sodium Borate Solution, NIST Traceable Buffer

BS2187 500 mL

BS2187 1 L

BS2187 3.8 L

Buffer Standard, pH 10.00 @ 25° C (Blue)

Sodium Borate - Sodium Hydroxide

pH vs. Temperature on label.

BB2070 500 mL \$9.10

BB2070 1 L

BB2070 3.8 L

BB2070 4 x 3.8 L

BB2070 20 L

Buffer Standard, pH 12.0 @ 25° C (Colorless)

Potassium Chloride-Sodium Hydroxide

BC2012 500 mL

BC2012 1 L

BC2012 3.8 L

Buffer Standard, pH 12.45 @ 25° C (Colorless)

Potassium Chloride-Sodium Hydroxide

BC2080 500 mL

BC2080 1 L

BC2080 3.8 L

Ψ Butanol, Reagent Grade

C₄H₉OH F.W. 74.12 d= 0.8109 g/mL CAS 71-36-3 Assay: 99.9% min.

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

BA9120 500 mL

BA9120 1 L

Ψ Cadmium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

CD7740 100 mL

CD7740 500 mL

Ψ Calcium Atomic Absorption Standard, 1,000 mg/L (ppm)

Calcium Carbonate in dilute Hydrochloric Acid; NIST SRM 3109

CA7750 100 mL

CA7750 500 mL

Calcium Carbonate, Powder, A.C.S. Grade

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

CC9620 500 g

CC9620 2.5 kg

Calcium Carbonate, Powder, USP Grade

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

CC9505 500 g

CC9505 2.5 kg

Calcium Chloride, 2.75% (w/v) Aqueous

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

CC6050 500 ml

CC6050 3.8 L

Calcium Chloride, Anhydrous, Technical Grade

CaCl₂ F.W. 110.98 CAS 10043-52-4

CC9401 500 g

CC9401 2.5 kg

CC9401 12.5 kg

Calcium Chloride, Dihydrate, A.C.S. Grade

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

CC9506 250 g

CC9506 500 g

CC9506 2.5 kg

Ψ Cerium (IV) Sulfate, 0.1 N in Sulfuric Acid, 1 N Solution

0.1000N ± 0.0005 N (0.0995 - 0.1005 N) in Sulfuric Acid, 1.0 N [Ceric Sulfate]

CS1515 1 L
CS1515 3.8 L
CS1515 4 x 3.8 L

Ψ Cesium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

CS7760 100 mL
CS7760 500 mL

Ψ Chloroform, A.C.S. Grade

*CHCl₃ F.W. 119.38 d= 1.492 g/mL 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
CL9050 1 L
CL9050 3.8 L
CL9050 4 x 3.8 L

Ψ Chromatography Solvent for Wine Organic Acids

*Paper or thin-film chromatography for Malo-Lactic Fermentation Progress by Kunkee
Method. Bromocresol Green Indicator*

CS6240 1 L
CS6240 3.8 L

Ψ Chromatography Solvent with Bromophenol Blue (BPB)

Enhanced resolution of organic acids in wine. European formula!

CS6245 500 mL
CS6245 1 L

Chromium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

CR7770 100 mL
CR7770 500 mL

Citric Acid, Anhydrous, A.C.S. Grade

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

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

CA9630 500 g

CA9630 2.5 kg

CA9630 5 kg

CA9630 12 kg

Citric Acid, Anhydrous, Technical Grade

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

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

CA9444 500 g

CA9444 2.5 kg

CA9444 12 kg

Ψ Cobalt Atomic Absorption Standard, 1,000 mg/L (ppm)

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

CO7780 100 mL

CO7780 500 mL

**Conductivity Conversions: *m* is meter; *mS* is milliSiemens
μ is micro, *μS/cm* is microSiemens/centimeter
*1mS/m = 10 μS/cm and 1 μS/cm = 1 μmhos/cm***

Conductivity Standard, 10 μS/cm

Extremely dilute solution of Potassium Chloride.

CS7311 500 mL

CS7311 1 L

Conductivity Standard, 46.7 μS/cm

Potassium Chloride Solution, 0.0001 M @ 25° C

CS7926 500 mL

CS7926 1 L

Conductivity Standard, 73.9 μS/cm

Potassium Chloride Solution, 0.0005 M @ 25° C

CS7900 500 mL

CS7900 1 L

Conductivity Standard, 100 μ S/cm

Potassium Chloride Solution

CS7302 500 mL

CS7302 1 L

Conductivity Standard, 147 μ S/cm

Potassium Chloride Solution, 0.001 M @ 25° C

CS7910 500 mL

CS7910 1 L

Conductivity Standard, 1,000 μ S/cm

Potassium Chloride Solution

CS7917 500 mL

CS7917 1 L

Conductivity Standard, 1,413 μ S/cm

Potassium Chloride Solution, 0.01 M @ 25° C

CS7920 500 mL

CS7920 1 L

Conductivity Standard, 2,767 μ S/cm

Potassium Chloride Solution, 0.02 M @ 25° C

CS7930 500 mL

CS7930 1 L

Conductivity Standard, 6,668 μ S/cm

Potassium Chloride Solution, 0.05 M @ 25° C

CS7940 500 mL

CS7940 1 L

Conductivity Standard, 12,900 μ S/cm

Potassium Chloride Solution, 0.1 M @ 25° C

CS7950 500 mL

CS7950 1 L

CONDUCTIVITY STANDARDS OF ANY REASONABLE VALUE (<111.9mS/cm) ARE AVAILABLE-PLEASE INQUIRE.

Acid Copper Sulfate Plating Solutions

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 Plating Solutions

INQUIRE

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

INQUIRE

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, 1,000 mg/L (ppm)

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

CU7790 100 mL

CU7790 500 mL

Copper Standard, 1,000 mg/L (ppm)

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

CS7791 100 mL

CS7791 500 mL

Ψ Copper Sulfate with Hydrochloric Acid

Can Liner Rater solution for can manufacturers.

CS6822 3.8 L

CS6822 20 L

Copper Sulfate Standard, 0.010 M

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

CS7801 1 L

CS7801 3.8 L

Copper Sulfate Standard, 0.016 M

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

CS7802 1 L

CS7802 3.8 L

Copper Sulfate Standard, 0.025 M

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

CS7803 1 L

CS7803 3.8 L

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

CS6771 3.8 L

CS6771 4 x 3.8 L

CS6771 20 L

Ψ Cupric Sulfate, Pentahydrate, Crystal, A.C.S. Grade

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

CS9507 500 g

CS9507 2.5 kg

Dextrose, Anhydrous, USP/NF Grade

$C_6H_{12}O_6$ F.W. 180.20 CAS 50-99-7 Assay: 99.5% min.

[D-Glucose; Corn sugar; Glucose]

DG9310 500 g

DG9310 2.5 kg

EthyleneDiamineTetraAcetic Acid (EDTA) Free Acid, A.C.S. Grade

$C_{10}H_{14}N_2O_8$ F.W. 292.25 CAS 60-00-4 Assay: 99.4 - 100.6%

[(Ethylenedinitrilo)tetraacetic Acid; Edetic Acid]

EA9597 125 g

EA9597 500 g

EA9597 2.5 kg

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

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$ F.W. 372.24 CAS 6381-92-6 Assay: 99.0 - 101.0%

[Edetate, Disodium; Ethylenedinitrilotetraacetic Acid, Sodium Salt]

ED9670 125 g

ED9670 500 g

ED9670 2.5 kg

EDTA Disodium, 0.01 M Solution

1.0 mL = 1.0 mg $CaCO_3$; 1.0 mL = 0.4008 mg Ca

ED1001 1 L

ED1001 3.8 L

ED1001 4 x 3.8 L

EDTA Disodium, 0.05 M Solution

1.0 mL = 5.0 mg $CaCO_3$; 1.0 mL = 2.004 mg Ca

ED1005 1 L

ED1005 3.8 L

ED1005 4 x 3.8 L

EDTA Disodium, 0.0575 M Solution

1.0 mL = 5.75 mg $CaCO_3$; 1.0 mL = 2.3046 mg Ca

ED1575 1 L

ED1575 3.8 L

ED1575 4 x 3.8 L

EDTA Disodium, 0.1 M Solution

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

ED1006 1 L
ED1006 3.8 L
ED1006 4 x 3.8 L

Electrode filling solutions for many different pH electrode reference systems and Ion Specific Electrodes (ISE) are available!

Call our Tech Service person now with your detailed requirements

Electrode Cleaning Solution (Proteins)

For Removal of Membrane/Junction Protein Deposits

ES6398 125 mL
ES6398 500 mL

Electrode Filling Solution, 3 M KCl with Silver Chloride

Saturated with Silver Chloride.

Never use filling solutions containing Silver in Ross™ electrodes!

EF6063 125 mL

Electrode Filling Solution, 3 M KCl

EF6062 125 mL

Electrode Filling Solution, 4 M KCl with Silver Chloride

Saturated with Silver Chloride.

Never use filling solutions containing Silver in Ross™ electrodes!

EF6060 125 mL

Electrode Filling Solution, 4 M KCl

EF6070 125 mL

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
ES6080 1 L

ES6080 3.8 L

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

ES6090 1 L

ES6090 3.8 L

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%). Accuracy to ± 0.05% by volume at 20°C.

EA7800 60 mL

EA7800 500 mL

EA7800 1 L

EA7800 3.8 L

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

Accuracy to ± 0.05% by volume at 20° C.

EA7810 60 mL

EA7810 500 mL

EA7810 1 L

EA7810 3.8 L

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

Accuracy to ± 0.05% by volume at 20° C.

EA7820 60 mL

EA7820 500 mL

EA7820 1 L

EA7820 3.8 L

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

Accuracy to ± 0.05% by volume at 20° C.

EA7830 60 mL

EA7830 500 mL

EA7830 1 L

EA7830 3.8 L

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

Accuracy to ± 0.05% by volume at 20° C.

EA7840 60 mL
EA7840 500 mL
EA7840 1 L
EA7840 3.8 L

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

Accuracy to ± 0.05% by volume at 20° C.

EA7850 60 mL
EA7850 500 mL
EA7850 1 L
EA7850 3.8 L

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

Accuracy to ± 0.05% by volume at 20° C.

EA7871 60 mL
EA7871 500 mL
EA7871 1 L
EA7871 3.8 L

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

*C₂H₅OH F.W. 46.07 d= 0.810 g/mL CAS 64-17-5 Assay: 99.5% by volume minimum.
[Ethanol, Undenatured; Dehydrated Ethanol]; Prices include Federal Excise tax.*

Light Sensitive.

EA9320 500 mL
EA9320 1 L
EA9320 3.8 L

Ψ Ethanol, Denatured, Technical Grade

CH₃CH₂OH F.W. 46.07 d= 0.785 g/mL CAS 64-17-5

Anhydrous, denatured Ethyl Alcohol may contain Benzene, Hydrocarbons even Gasoline, MethylisobutylKetone (MIBK) as denaturants; it cannot be made non-poisonous!

ET9405 500 mL

ET9405	1 L
ET9405	3.8 L
ET9405	4 x 3.8 L
ET9405	20 L

Ethylene Glycol, Reagent Grade

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

EG9450	500 mL
EG9450	3.8 L
EG9450	4 x 3.8 L

Fehling's Solution "A"

For Reducing Sugars; Cupric Sulfate, Pentahydrate. Mix equal volumes of "A" with "B"

FA6250	500 mL
FA6250	1 L

Ψ Fehling's Solution "B"

For Reducing Sugars; Alkaline Rochelle's salt solution.

FB6260	500 mL
FB6260	1 L

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

$H_4FeNO_8S_2 \cdot 12H_2O$ F.W. 482.20 CAS 7783-83-7 Assay: 98.5 - 102.0% [Iron(III) Ammonium Sulfate, Hydrate]

FS9133	500 g
FS9133	2.5 kg

Ferric Chloride, 0.025% (w/v)

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

FC6100	500 mL
FC6100	1 L
FC6100	3.8 L

Ferric Sulfate, Hydrate, Reagent Grade

$Fe_2(SO_4)_3 \cdot xH_2O$ F.W. $399.98 + xH_2O$ CAS 10028-22-5 72% Min. [Iron(III) Sulfate, Hydrate]

FS9045	500 g
FS9045	2.5 kg
FS9045	12 kg

Ferric Sulfate, Hydrate, Technical Grade

$Fe_2(SO_4)_3 \cdot xH_2O$ F.W. 399.98 + xH_2O CAS 10028-22-5 [Iron(III) Sulfate, Hydrate]

FS9047 500 g

FS9047 2.5 kg

Ferroun Indicator, 0.025 M

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

FE4120 60 mL

FE4120 100 mL

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

$FeSO_4(NH_4)_2SO_4 \cdot 6H_2O$ F.W. 392.14 CAS 7783-85-9 Assay: 98.5 - 101.5% [Iron(II) Ammonium Sulfate]

FA9510 500 g

FA9510 2.5 kg

Ferrous Sulfate, Heptahydrate, A.C.S. Grade

$FeSO_4 \cdot 7H_2O$ F.W. 278.02 CAS 7782-63-0 Assay: 99.0% min. [Iron(II) Sulfate]

FS9640 500 g

FS9640 2.5 kg

Fluoride Standard, 10 mg/L (ppm)

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

FS7195 500 mL

FS7195 1 L

Fluoride Standard, 100 mg/L (ppm)

1.0 mL = 0.100 mg Fluoride anion from Sodium Fluoride

FS7190 500 mL

FS7190 1 L

Fluoride Standard, 1000 mg/L (ppm)

1.0 mL = 1.000 mg Fluoride anion

FS7200 500 mL

FS7200 1 L

Ψ Formaldehyde, 37%, A.C.S. Grade

CH_2O F.W. 30.03 $d=1.081-1.085$ g/mL CAS 50-00-0 Assay: 36.5% - 38.0%

FS9088 500 mL

FS9088 1 L

FS9088 3.8 L

Ψ Formic Acid, 88%, A.C.S. Grade

CH_2O_2 F.W. 46.03 $d=1.220$ g/mL CAS 64-18-6 Assay: 88% min.

FA9130 500 mL

FA9130 3.8 L

Fructose Standard, 50 mg/L (ppm)

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

FU7590 100 mL

Fructose Standard, 200 mg/L (ppm)

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

FU7600 100 mL

Fructose Standard, 500 mg/L (ppm)

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

FU7610 100 mL

Fructose Standard, 600 mg/L (ppm)

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

FU7620 100 mL

Fructose Standard, 1,000 mg/L (ppm)

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

FU7630 100 mL

Fructose Standard, 1,500 mg/L (ppm)

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

FU7640 100 mL

Fructose Standard, 2,000 mg/L (ppm)

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

FU7650 100 mL

Fructose Standard, 3,000 mg/L (ppm)

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

FU7660 100 mL

Fructose Standard, 4,000 mg/L (ppm)

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

FU7670 100 mL

Fructose Standard, 6,000 mg/L (ppm)

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

FU7680 100 mL

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

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

FU7690 100 mL

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

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

FU7691 100 mL

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

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

FU7692 100 mL

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

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

FU7693 100 mL

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

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

FU7694 100 mL

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

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

FU7695 100 mL

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

C₇H₆O₅-H₂O F.W. 188.14 CAS 5995-86-8 Assay: 98.0% min. [3,4,5-Trihydroxybenzoic acid]

GA9650 10 g

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

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

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

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

Gallic Acid Equivalent Standard, 1,000 mg/L (ppm)

Equivalent to 100.0 mg Gallic acid per 100 mL solution in 10% (v/v) Ethanol

GA7350 100 mL

Gallic Acid Equivalent Standard, 1,500 mg/L (ppm)

Equivalent to 150.0 mg Gallic acid per 100 mL solution in 10% (v/v) Ethanol

GA7360 100 mL

Gallic Acid Equivalent Standard, 2,000 mg/L (ppm)

Equivalent to 200.0 mg Gallic acid per 100 mL solution in 10% (v/v) Ethanol

GA7370 100 mL

Glycerin, Natural, USP Grade

C₃H₈O₃ F.W. 92.10 d= 1.264 g/mL CAS 56-81-5 Assay: 99.0 - 101.0%

GY9314 1 L

GY9314 3.8 L

GY9314 4 x 3.8 L

GY9314 20 L

Ψ Gold Atomic Absorption Standard, 1,000 mg/L (ppm)

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

AU7705 100 mL Call for Price!

AU7705 500 mL Call for Price!

Gold Coast Solution #1

Copper Sulfate Solution

GC6281 500 mL

GC6281 1 L

GC6281 3.8 L

Ψ Gold Coast Solution #2

Potassium Sodium Tartrate Solution

GC6282 500 mL

GC6282 1 L

GC6282 3.8 L

Gold Coast Solution #3

Potassium Iodide Solution

GC6283 500 mL

GC6283 1 L

GC6283 3.8 L

Ψ Gold Coast Solution #4

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

GC6284 500 mL

GC6284 1 L

GC6284 3.8 L

Gold Coast Solution #5

Starch in Potassium Iodide Solution

GC6285 500 mL

GC6285 1 L

GC6285 3.8 L

Gold Coast Solution #6

Sodium Thiosulfate Solution

GC6286 500 mL

GC6286 1 L

GC6286 3.8 L

Ψ Hardness Buffer Solution

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

Ammonium Chloride-Ammonium Hydroxide with Disodium Magnesium EDTA

HB2110 500 mL

HB2110 1 L

HB2110 3.8 L

Ψ Hexanes (n-Hexane) A.C.S. Grade

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

HX9406 1 L

HX9406 3.8 L

Hydrochloric Acid, 0.01 N (N/100)

N/100, 0.0100 N ± 0.0001 N (0.0099 - 0.0101 N) .

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

HC1009 4 x 3.8 L

HC1009 20 L

Hydrochloric Acid, 0.1 N (N/10)

N/10, 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

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

HC1020 4 x 3.8 L

HC1020 20 L

Hydrochloric Acid, 0.2 N (N/5)

(N/5) 0.2000 N ± 0.0005 N (0.1995 - 0.2005 N)

HC1028 1 L \$9.55

HC1028 3.8 L

HC1028 4 x 3.8 L

Ψ Hydrochloric Acid, 0.5 N (N/2)

0.500 N ± 0.002 N (0.495 - 0.505 N)

HC1027 1 L \$9.55

HC1027 3.8 L

HC1027 4 x 3.8 L

Ψ Hydrochloric Acid, 1.0 N

1.000 N ± 0.005 (0.995 - 1.005 N)

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

HC1030 4 x 3.8 L

HC1030 20 L

Ψ Hydrochloric Acid, 2.0 N

2.000 N ± 0.005 N (1.995 - 2.005 N)

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

HC1040 1 L

HC1040 3.8 L

HC1040 4 x 3.8 L

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

HC1611 3.8 L

Ψ Hydrochloric Acid, 10% (v/v) [1+9]

About 1.2 Normal

HC6110 1 L

HC6110 3.8 L

HC6110 4 x 3.8 L

Ψ Hydrochloric Acid, 25%(v/v) [1+3]

About 3 Normal or Molar . Approximately 9% (w/w).

HC6120 1 L

HC6120 3.8 L

HC6120 4 x 3.8 L

Ψ Hydrochloric Acid, 50%(v/v) [1+1]

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

HC6120 1 L

HC6120 3.8 L

HC6120 4 x 3.8 L

Ψ Hydrochloric Acid, A.C.S. Grade

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

HC9040 1 L
HC9040 2.5 L
HC9040 3.8 L
HC9040 4 x 3.8 L

Ψ Hydrochloric Acid, 20° Baume, Technical Grade

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

HC9509 1 L
HC9509 3.8 L
HC9509 4 x 3.8 L

Ψ Hydrofluoric Acid, 49%, A.C.S. Grade

HF F.W. 20.01 d=1.150 mg/L CAS 7664-39-3 Assay: 48.0 - 51.0% Corrosive!

HF9250 3.8 L
HF9250 4 x 3.8 L

Hydrogen Peroxide, 1% (v/v)

for sulfites in wine by Aeration - Oxidation method.

HP6565 500 mL
HP6565 1 L
HP6565 3.8 L

Hydrogen Peroxide, 3% (v/v)

For testing sulfites in wine by Aeration-Oxidation method.

HP6300 500 mL
HP6300 1 L
HP6300 3.8 L

Ψ Hydrogen Peroxide, A.C.S. Grade

*H₂O₂ F.W. 34.01 d= 1.110 g/mL 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
HP9050 1 L

HP9050 3.8 L
HP9050 4 x 3.8 L

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

H_2O_2 F.W. 34.01 $d=1.110$ g/mL CAS 7722-84-1 Oxidizer!

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

HP9055 500 mL
HP9055 1 L
HP9055 3.8 L
HP9055 4 x 3.8 L

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

$NH_2OH-HCl$ F.W. 69.49 CAS 5470-11-1 Assay: 96.0% min. Corrosive, Toxic Solid!

HH9555 500 g
HH9555 2.5 kg

Iodine Solution, 0.00564 N

$0.00564 N \pm 0.00002 N$, APHA 4500 – Cl C. Residual Chlorine Iodometric Method II,

IS1564 1 L
IS1564 3.8 L

Iodine Solution, 0.0156 N

$0.0156 N \pm 0.0002 N$ (0.0154 - 0.0158 N)

IS1410 500 mL
IS1410 1 L
IS1410 3.8 L

Ψ Iodine , Resublimed, Crystal or Prills, A.C.S.

I_2 F.W.253.80 CAS 7553-56-2 Assay: 99.8% min. California precursor chemical requires 21 day waiting period and written order.

IO9224 25 g
IO9224 100 g
IO9224 500 g

Iodine Solution, 0.02 N (N/50)

$N/50$ $0.0200 N \pm 0.0005$ (0.0195 - 0.0205 N)

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

IS1400 500 mL
IS1400 1 L
IS1400 3.8 L

Iodine Solution, 0.025 N (N/40)

For Sulfide, APHA, Iodometric Method.

IS1405 500 mL

IS1405 1 L

IS1405 3.8 L

Iodine Solution, 0.0282 N

0.0282 N ± 0.0005 N (0.0277 - 0.0287 N)

IS1070 500 mL

IS1070 1 L

IS1070 3.8 L

Iodine Solution, 0.1 N (N/10)

0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

IS1050 500 mL

IS1050 1 L

IS1050 3.8 L

Iodine Solution, 0.2 N (N/5)

0.2000 N ± 0.0005 N (0.1995 - 0.2005 N)

IS1050 500 mL

IS1050 1 L

IS1050 3.8 L

Ψ Iron Atomic Absorption Standard, 1,000 mg/L (ppm)

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

FE7715 100 mL

FE7715 500 mL

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

Prepared from 1,000 ppm standard by volumetric dilution with 2% Nitric Acid

FE7716 500 mL

FE7716 1 L

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

For use in the Gas Chromatography of Alcohols.

IA7717 100 mL

Isopropyl Alcohol, 10% (v/v)

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

IA6257 3.8 L

IA6257 4 x 3.8 L

Ψ Isopropyl Alcohol, 70% (v/v)

Isopropyl Alcohol commonly known as "rubbing alcohol".

IA6191 3.8 L

IA6191 4 x 3.8 L

IA6191 20 L

Ψ Isopropyl Alcohol, A.C.S. Grade

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

[Isopropanol; 2-Propanol; IPA]

IA9060 500 mL

IA9060 1 L

IA9060 3.8 L

IA9060 4 x 3.8 L

Ψ Isopropyl Alcohol, Technical Grade

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

[Isopropanol; 2-Propanol; IPA]

IA9411 3.8 L

IA9411 4 x 3.8 L

IA9411 20 L

Lactic Acid Standard, 1,000 mg/L (ppm)

Lactic Acid in de-ionized water. 100 mg of lactic acid per hundred milliliters of solution.

LA7721 100 mL

Lactic Acid Standard, 5,000 mg/L (ppm)

500 mg Lactic acid dissolved in 100 mL of solution.

LA7722 100 mL

Lead Acetate Solution, Saturated, Neutral

For sulfide removal before analysis and clarification in wine samples. About 44.3 g/100 mL

LA6301 100 mL

Ψ Lead Atomic Absorption Standard, 1,000 mg/L (ppm)

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

PB7725 100 mL

PB7725 500 mL

Ψ Lithium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

LI7735 100 mL

LI7735 500 mL

Ψ Lithium Hydroxide, Monohydrate, Crystal, A.C.S. Grade

LiOH-H₂O F.W. 41.96 Assay: 98.0% Min.

LH9663 100 g

LH9663 500 g

Ψ Magnesium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

MG7745 100 mL

MG7745 500 mL

Magnesium Chloride, Hexahydrate, Technical Grade

MgCl₂-6H₂O F.W. 203.30 CAS 7791-18-6

MC9407 500 g

MC9407 2.5 kg

Magnesium Sulfate, Heptahydrate, A.C.S. Grade

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

MS9513 500 g

MS9513 2.5 kg

Magnesium Sulfate, Heptahydrate, USP Grade

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

MS9735 500 g

MS9735 2.5 kg

Magnesium Sulfate Solution, 2.25% (w/v)

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

MS6130 500 mL

MS6130 1 L

Ψ Maleic Acid, Reagent

$C_4H_4O_4$ F.W. 116.08 Assay: 99% minimum (Dried Basis) CAS 110-16-7.

MA9464 100 g

MA9464 500 g

Malic Acid Standard, 100 mg/L (ppm)

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

MA7723 100 mL

Malic Acid Standard, 250 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 25 mg per 100 mL.

MA7724 100 mL

Malic Acid Standard, 500 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 50 mg per 100 mL

MA7726 100 mL

Malic Acid Standard, 750 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 75 mg per 100 mL

MA7727 100 mL

Malic Acid Standard, 1,000 mg/L (ppm)

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

MA7728 100 mL

Malic Acid Standard, 1,500 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 150 mg per 100 mL

MA7729 100 mL

Malic Acid Standard, 2,000 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 200 mg per 100 mL

MA7731 100 mL

Malic Acid Standard, 3,000 mg/L (ppm)

L - Malic Acid in 10% v/v Ethanol; 300 mg per 100 mL

MA7732 100 mL

Ψ Manganese Atomic Absorption Standard, 1,000 mg/L (ppm)

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

MN7755 100 mL

MN7755 500 mL

Manganous Sulfate, 2.15 M Solution

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

MS6190 500 mL

MS6190 1 L

Mannitol, USP/NF Grade

$C_6H_{14}O_6$ F.W. 182.17 CAS 69-65-8 Assay: 96.0 - 101.5%

[1,2,3,4,5,6-Hexanehexol; D-Mannitol; Mannite]

ML9512 100 g

ML9512 500 g

ML9512 2.5 kg

Ψ Mercury Atomic Absorption Standard, 1,000 mg/L (ppm)

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

HG7765 100 mL

HG7765 500 mL

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

MN1410 1 L

MN1410 3.8 L

Ψ Mercuric Nitrate Titrant, 0.1 N (N/10)

0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

MN1411 500 mL

MN1411 1 L

MN1411 3.8 L

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

MN1412 1 L
MN1412 3.8 L

Ψ Methyl Alcohol, Absolute, A.C.S. Grade

CH₃OH F.W. 32.04 d= 0.787 g/mL CAS 67-56-1 Assay: 99.8% min. Methanol

MA9070 500 mL
MA9070 1 L
MA9070 3.8 L
MA9070 4 x 3.8 L
MA9070 20 L

Ψ Methanol, Technical Grade

CH₃OH F.W. 32.04 d= 0.787 g/mL CAS 67-56-1 Assay: 99.5% min. Flammable

MA9412 1 L
MA9412 3.8 L
MA9412 4 x 3.8 L
MA9412 20 L

Methyl Orange, 0.1% (w/v) Aqueous

pH 3.2 (Red) to pH 4.4 (Yellow)

MO4191 500 mL
MO4191 1 L
MO4191 3.8 L

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

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

C₅H₉NO F.W. 99.13 d=1.028 g/mL CAS 872-50-4

NM9443 3.8 L
NM9443 4 x 3.8 L
NM9443 20 L

1-Methyl-2-Pyrrolidinone, Technical Grade

N-Methyl Pyrrolidone; NMP

C₅H₉NO F.W. 99.13 d=1.028 g/mL CAS 872-50-4

NM9441 3.8 L
NM9441 4 x 3.8 L
NM9441 20 L

Molybdenum Atomic Absorption Standard, 1,000 mg/L (ppm)

Ammonium Molybdate in Water; Verified NIST SRM 3134

MO7775 **100 mL**

MO7775 **500 mL**

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**

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!

INQUIRE

Ψ Nickel Atomic Absorption Standard, 1,000 mg/L (ppm)

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

NI7785 **100 mL**

NI7785 **500 mL**

Nickel Sulfate, Hexahydrate, A.C.S. Grade

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

NS9555 **500 g**

NS9555 **2.5 kg**

Nickel Sulfate, 0.01 M

0.0100 M ± 0.0005 M (0.0095 - 0.0105 M)

NS6001 1 L

NS6001 3.8 L

Ψ Nitric Acid, 1.0 M Solution

M = N, 1.000 M ± 0.005 M (0.995 - 1.005 M)

NA1090 500 mL

NA1090 1 L

Ψ Nitric Acid, 10% (w/w)

Prepared from Nitric Acid, A.C.S. dissolved in de-ionized water.

1.673 N d 1.0543

NA6810 500 mL

NA6810 1 L

NA6810 2.5 L

Ψ Nitric Acid, 20% (w/w)

Prepared from Nitric Acid, 70%, A.C.S. dissolved in de-ionized water.

3.359 N d= 1.1150 g/mL

NA6820 500 mL

NA6820 6 x 500 mL

NA6820 1 L

NA6820 2.5 L

Ψ Nitric Acid, 30% (w/w)

Prepared from Nitric Acid, A.C.S. dissolved in de-ionized water. 5.618 N d=1.1801 g/mL

NA6830 500 mL

NA6830 6 x 500 mL

NA6830 1 L

NA6830 2.5 L

Ψ Nitric Acid, 40% (w/w)

Prepared from Nitric Acid, A.C.S. dissolved in de-ionized water. 7.913 N d=1.2466 g/mL

NA6840 500 mL

NA6840 6 x 500 mL

NA6840 1 L

NA6840 2.5 L

Ψ Nitric Acid Solution, 50% (v/v) [1+1]

About 8 N; (1+1) d=1.25 g/mL

NA6650	500 mL
NA6650	1 L
NA6650	2.5 L

Ψ Nitric Acid, Reagent, A.C.S. Grade

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
NA9080	1 L
NA9080	2.5 L

Nitrogen standards can be confusing because Nitrogen can exist in many forms. ACME Analytical Solutions, Inc. will name our products according to the species being measured by the analyst. For example, a standard which will be used to determine Ammonia will be named 'Ammonia Standard, 1000 ppm' while the same kind of standard for the determination of Nitrogen at 1000 ppm would be named 'Nitrogen Standard, 1000 ppm N (as NH₃)'. If a solution is named 'Nitrogen Standard' in this catalog, the ppm value is the concentration of N and not the species present in solution such as Ammonia, Nitrate or Nitrite!

1000 mg/L (ppm) Nitrogen = 1216 ppm Ammonia = 3285 ppm Nitrite = 4427 ppm Nitrate

Ammonia Standard, 1,000 mg/L (ppm)

1.00 mL = 1.00 mg Ammonia

NA7242	500 mL
NA7242	1 L

Ammonia Standard, 100 mg/L (ppm)

1.00 mL = 0.100 mg Ammonia

NA7241	500 mL
NA7241	1 L

Nitrate Standard, 1,000 mg/L (ppm)

1.00 mL = 1.00 mg Nitrate

NS7250	500 mL
NS7250	1 L

Nitrate Standard, 100 mg/L (ppm)

1.00 mL = 0.100 mg Nitrate

NS7240	500 mL
NS7240	1 L

Nitrite Standard, 1000 mg/L (ppm)

1.00 mL = 1.00 mg Nitrite

NS7262 500 mL

NS7262 1 L

Nitrite Standard, 100 mg/L (ppm)

1.00 mL = 0.100 mg Nitrite

NS7261 500 mL

NS7261 1 L

Nitrogen Standard, 1,000 mg/L N-NH₃

1.00 mL = 1.00 mg Nitrogen (as Ammonia), 1000 ppm N = 1216 ppm NH₃

NS7742 500 mL

NS7742 1 L

Nitrogen Standard, 1,000 mg/L N-NO₂⁻

1.00 mL = 1.00 mg Nitrogen (as Nitrite), 1000 ppm N = 3285 ppm NO₂⁻

NS7762 500 mL

NS7762 1 L

Nitrogen Standard, 1,000 mg/L N-NO₃⁻

1.00 mL = 1.00 mg Nitrogen (as Nitrate), 1000 ppm N = 4427 ppm NO₃⁻

NS7750 500 mL

NS7750 1 L

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

OS7260 1 L

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

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

OS7270 500 mL

OS7270 1 L

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

LS7280 1 L

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

OS7290 1 L

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

C₂H₂O₄·2H₂O F.W. 90.04 CAS 6153-56-6 Assay: 99.5 - 102.5% [Ethanedioic Acid]

OA9567 500 g

Corrosive

OA9567 2.5 kg

Ψ Palladium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

PD7795 100 mL Call for Price!

PD7795 500 mL Call for Price!

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

[1-(2-Pyridylazo)-Naphthol] C₁₅H₁₁N₃O F.W. 249.27 CAS 85-85-8 Flammable

Absorption max: 462 nm

PI4266 100 mL

PI4266 500 mL

Ψ Perchloric Acid, 70% (w/w) Reagent (A.C.S.)

HClO₄ F.W. 100.46 Assay: 69.0 – 72.0% CAS 7601-90-3 Oxidizer/ Corrosive

PA9102 500 ml

PA9102 6 x 500 mL

PA9102 2.5 L

PA9102 4 x 2.5 L

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

pH 8.3 (Colorless) - pH 10.0 (Red)

PH4070 500 ml

PH4070 1 L
PH4070 3.8 L
PH4070 4 x 3.8 L

Phenolphthalein, Powder, A.C.S. Grade

$C_{20}H_{14}O_4$ F.W. 318.33 CAS 77-09-8 Assay: 98.0 - 101.0%

PH9347 25 g
PH9347 100 g
PH9347 500 g

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

pH 6.8 (Yellow) - pH 8.2 (Red)

PR4080 500 mL
PR4080 1 L

Phenylarsine Oxide, 0.00564 N

1.00 mL = 0.200 mg Chlorine

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

PA1100 500 mL
PA1100 1 L
PA1100 3.8 L

Phosphate Buffer Solution, pH 7.0

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

PB2120 500 mL
PB2120 1 L
PB2120 3.8 L

Phosphate Buffer Solution, pH 7.2

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

PB2130 500 mL
PB2130 1 L
PB2130 3.8 L

Ψ Phosphoric Acid, 10% (v/v)

(1+9) APHA for Phenols, 5530 B. Cleanup Procedure (Meets Specifications for ASTM D-1783).

PA6140 500 mL
PA6140 1 L
PA6140 3.8 L
PA6140 4 x 3.8 L

Ψ Phosphoric Acid, 25% (v/v) [1+3]

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. Corrosive

PA6025	1 L
PA6025	3.8 L
PA6025	4 x 3.8 L
PA6025	10 L
PA6025	20 L

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	Corrosive
PA6027	4 x 3.8 L	

Ψ Phosphoric Acid, A.C.S. Grade

H_3PO_4 F.W. 98.00 $d = 1.685$ g/mL CAS 7664-38-2 Assay: 85% by wt. min.
[Orthophosphoric Acid] Corrosive

PA9085	1 L
PA9085	2.5 L
PA9085	3.8 L
PA9085	4 x 3.8 L

Ψ Phosphoric Acid, Technical Grade

H_3PO_4 F.W. 98.00 $d = 1.685$ g/mL CAS 7664-38-2 Assay: 75% by wt. min.
[Orthophosphoric Acid] Corrosive

PA9086	1 L
PA9086	2.5 L
PA9086	3.8 L
PA9086	4 x 3.8 L

Ψ Platinum Atomic Absorption Standard, 1,000 mg/L (ppm)

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

PT7786	100 mL	Call for Price!
PT7786	500 mL	Call for Price!

Ψ Potassium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

K7787	100 mL
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K7787 500 mL

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

In dilute Nitric Acid for Winery Laboratory use.

K57787 100 mL

K57787 500 mL

Potassium Bromide, Crystal, A.C.S. Grade

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

PB9205 500 g

PB9205 2.5 kg

Potassium Chloride, Crystal, A.C.S. Grade

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

PC9520 500 g

PC9520 2.5 kg

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

K₂CrO₄ F.W. 194.19 CAS 7789-00-6 Assay: 99.0% min.

PC9523 500 g

PC9523 2.5 kg

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

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

PC4100 500 ml

PC4100 1 L

Ψ Potassium Fluoride, 40% (w/v)

For Dissolved Oxygen, APHA 4500-O C. Azide Modification. 400 g KF per Liter

PF6150 500 mL

PF6150 1 L

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

PB1700 3.8 L

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

$C_8H_5KO_4$ 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

KH9204 500 g

Potassium Hydrogen Phthalate, 0.1 N (N/10)

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

PB1600 1 L

PB1600 3.8 L

Ψ Potassium Hydroxide, 0.5 N in Ethanol

$0.500 N \pm 0.003$ (0.497 - 0.503 N) *Certified*

PH1255 1 L

PH1255 3.8 L

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

KOH F.W. 56.11 $d = 1.456 \text{ g/mL}$ CAS 1310-58-3 Assay: 45% min. *Corrosive*

PH9045 1 L

PH9045 3.8 L

PH9045 4 x 3.8 L

Ψ Potassium Hydroxide, Pellets, A.C.S. Grade

KOH F.W. 56.11 $d = 1.456 \text{ g/mL}$ CAS 1310-58-3 Assay: Not less than 85% KOH and not more than 2.0% K_2CO_3 *Corrosive*

PH9677 500 g

PH9677 1 kg

PH9677 2.5 kg

Ψ Potassium Iodate, Powder, A.C.S. Grade

KIO_3 F.W. 214.00 CAS 7758-05-6 Assay: 99.4 - 100.4% $M = 6 N$ *Oxidizer*

PI9494 100 g

PI9494 500 g

Potassium Iodate, 0.00564 N

$0.00564 N \pm 0.00002 N$ (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

PI1511 3.8 L

Potassium Iodate, 0.05 M Solution

$M = 6 N$ $0.0500 M \pm 0.0005 M$ (0.0495 - 0.0505 M)

PI1115 1 L

PI1115 3.8 L

Potassium Iodate, 0.1 N (N/10)

$M = 6N$, therefore $0.1 N = 0.0167 M$

PI1117 1 L

PI1117 3.8 L

Potassium Iodate Concentrate II

For Residual Chlorine at ± 5 ppm Deox 2000 Analyzer, 0.68 N

PI1068 250 mL

PI1068 4 x 250 mL

Potassium Iodate Concentrate I

For Residual Chlorine at ± 10 ppm Deox 2000 Analyzer, 1.36 N

PI1136 250 mL

PI1136 4 x 250 mL

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

$0.00794 N \pm 0.00005 N$ (0.00789 - 0.00799 N)

II1138 1 L

II1138 3.8 L

Potassium Iodate-Iodide, 0.0156 N

$M = 6 N$ $0.0156 N \pm 0.0002 N$ (0.0154 - 0.0158 N)

II1500 1 L

II1500 3.8 L

Potassium Iodate-Iodide, 0.02 N (N/50)

$M = 6 N$ $0.0200 N \pm 0.0002 N$ (0.0198 - 0.0202 N)

II1502 1 L
II1502 3.8 L

Potassium Iodate-Iodide, 0.025 N (N/40)

$M = 6 N$ 0.0250 N \pm 0.0005 N (0.0245 - 0.0255 N)

II1102 1 L
II1102 3.8 L

Potassium Iodate-Iodide, 0.1 N (N/10)

$M = 6 N$ 0.1000 N \pm 0.0005 N (0.0995 - 0.1005 N)

II1111 1 L
II1111 3.8 L

Potassium Iodide, 5% (w/v)

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

PI6160 500 mL
PI6160 1 L

Potassium Iodide, 10% (w/v)

Stabilized. Light - Sensitive. Aqueous Solution

PI6165 500 mL
PI6165 1 L

Potassium Iodide, Crystals, A.C.S.

KI F.W. 166.00 CAS 7681-11-0 Assay: 99.0% min. Light and Moisture Sensitive.

PI9530 500 g
PI9530 2.5 kg
PI9530 5 kg
PI9530 12 kg \$1053.95

Ψ Potassium Nitrate, A.C.S.

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

PN9556 500 g
PN9556 2.5 kg

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

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

PP9540 500 g
PP9540 2.5 kg

Ψ Potassium Permanganate, Crystal, USP Grade

$KMnO_4$ F.W. 158.03 CAS 7722-64-7 Assay: 99.0% - 100.5% Oxidizer

PP9541 500 g

PP9541 2.5 kg

Potassium Permanganate, 0.1 N (N/10)

$M = 5 N$ 3.1606 grams $KMnO_4$ dissolved per Liter in freshly boiled distilled water.

PP1987 1 L

PP1987 3.8 L

Potassium Permanganate, 0.5 N (N/2)

$M = 5 N$ 15.8030 grams $KMnO_4$ dissolved per Liter in freshly boiled distilled water.

PP1986 1 L

PP1986 3.8 L

Potassium Permanganate, 1.0 N Aqueous

$M = 5 N$ 31.606 grams $KMnO_4$ dissolved per Liter in freshly boiled distilled water.

PP1988 1 L

PP1988 3.8 L

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

K_2HPO_4 F.W. 174.18 CAS 7758-11-4 Assay: 98.0% min.

PP9552 500 g

PP9552 2.5 kg

Potassium Phosphate, Monobasic, A.C.S.

KH_2PO_4 F.W. 136.09 CAS 7778-77-0 Assay: 98.0 - 100.5% dried basis @ 105 C

PP9550 500 g

PP9550 2.5 kg

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 500 g

PS9565 2.5 kg

Potassium Sulfate, Crystal, A.C.S.

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

PS9560 500 g
PS9560 2.5 kg

Potassium Thiocyanate, A.C.S.

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

PT9699 500 g
PT9699 2.5 kg

Potassium Thiocyanate, 0.1 N

About 10 g per L, 0.1000 N ± 0.0005 N(0.0995 – 0.1005 N)

PT1699 1 L
PT1699 3.8 L

Propylene Glycol, A.C.S. Grade

C₃H₈O₂ F.W. 76.10 d 1.036 CAS 57-55-6 Assay: 99.5% min. [1,2-Propanediol]

PG9315 1 L
PG9315 3.8 L
PG9315 4 x 3.8 L

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.

SE6500 500 mL
SE6500 1 L
SE6500 3.8 L
SE6500 4 x 3.8 L

Ψ Selenium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

SE7797 100 mL
SE7797 500 mL

Silicon Atomic Absorption Standard, 1,000 mg/L (ppm)

Ammonium Hexafluorosilicate in water; Verified NIST SRM 3150

SI7798 100 mL
SI7798 500 mL

Ψ Silver Atomic Absorption Standard, 1,000 mg/L (ppm)

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

AG7799 100 mL Call for Price!

AG7799 500 mL Call for Price!

Silver Nitrate, 0.0100 N (N/100)

0.0100 N ± 0.0005 N (0.0095 - 0.0105 N)

SN1111 1 L
SN1111 3.8 L

Silver Nitrate, 0.0141 N

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

SN1110 500 mL
SN1110 1 L
SN1110 3.8 L

Silver Nitrate, 0.1000 N (N/10)

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

SN1710 500 mL
SN1710 1 L
SN1710 3.8 L

Silver Nitrate, 1.000 N

1.000 N ± 0.005 N (0.995 - 1.005 N) Aqueous Solution

SN1099 500 mL
SN1099 1 L
SN1099 3.8 L

Ψ Silver Nitrate, Crystal, A.C.S.

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

SN9517 100 g Call for Price!
SN9517 500 g Call for Price!

Ψ 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
SI4321 1 L

Ψ Sodium Atomic Absorption Standard, 1000 mg/L (ppm)

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

NA7781 100 mL
NA7781 500 mL

Sodium Acetate, Trihydrate, A.C.S. Grade

$\text{NaC}_2\text{H}_3\text{O}_2 \cdot 3\text{H}_2\text{O}$ F.W. 136.08 CAS 6131-90-4 Assay: 99.0 - 101.0%

SA9570 500 g

SA9570 2.5 kg

Sodium Acetate, Anhydrous, A.C.S. Grade

$\text{NaC}_2\text{H}_3\text{O}_2$ F.W. 82.03 CAS 127-09-3 Assay: 99.0% min.

SA9571 500 g

SA9571 2.5 kg

Sodium Bicarbonate, Powder, USP/NF Grade

NaHCO_3 F.W. 84.01 CAS 144-55-8 Assay: 99.0 - 100.5% [Baking Soda]

SB9377 500g

SB9377 2.5 Kg

Sodium Bisulfite, Granular, A.C.S. Grade

NaHSO_3 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 500 g

SB9387 2.5 kg

Sodium Borate, Decahydrate, A.C.S. Grade

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ 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 500 g

SB9598 2.5 kg

Sodium Carbonate, Anhydrous, A.C.S. Grade

Na_2CO_3 F.W. 105.99 CAS 497-19-8 Assay: 99.5% min. Hygroscopic

SA9580 500 g

SA9580 2.5 kg

Sodium Carbonate, Technical Grade

Na_2CO_3 F.W. 105.99 CAS 497-19-8

Hygroscopic

SC9427 500 g

SC9427 2.5 kg

Sodium Carbonate, 20% (w/v) Solution

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

SC6820 1 L
SC6820 3.8 L

Sodium Chloride, Crystal, A.C.S. Grade

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

SC9590 500 g
SC9590 2.5 kg

Sodium Chloride, 1% (w/v) Solution

SC6819 3.8 L
SC6819 4 x 3.8 L
SC6819 20 L

Ψ Sodium Chromate, Tetrahydrate, A.C.S. Grade

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

SC9592 500 g
SC9592 2.5 kg

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

SC4513 500 mL
SC4513 1 L

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

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

SD9593 500 g
SD9593 2.5 kg

Sodium Hydroxide, 0.01 N (N/100)

0.0100 N ± 0.0005 N (0.0095 - 0.0105 N) Aqueous Solution

SH1130 1 L
SH1130 3.8 L
SH1130 4 x 3.8 L
SH1130 20 L

Sodium Hydroxide, 0.0167 N

For Volatile Acidity in wine.

SH1167	1 L
SH1167	3.8 L
SH1167	4 x 3.8 L

Sodium Hydroxide, 0.02 N (N/50)

*(N/50) 0.0200 N ± 0.0002 N (0.0198 - 0.0202 N) Aqueous Solution
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1140	1 L
SH1140	3.8 L
SH1140	4 x 3.8 L
SH1140	20 L

Sodium Hydroxide, 0.05 N (N/20)

*(N/20) 0.0500 N ± 0.0005 N (0.0495 - 0.0505 N) Aqueous Solution
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1150	1 L
SH1150	3.8 L
SH1150	20 L

Sodium Hydroxide, 0.0667 N

For Total Titratable Acidity in wine. AOAC 962.12 Aqueous Solution

SH1667	1 L
SH1667	3.8 L
SH1667	4 x 3.8 L

Sodium Hydroxide, 0.10 N (N/10)

*(N/10) 0.1000 N ± 0.0005 N (0.0995 - 0.1005 N) Aqueous Solution
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1160	1 L
SH1160	3.8 L
SH1160	10 L
SH1160	4 x 3.8 L
SH1160	20 L

Sodium Hydroxide, 0.133 N

*5.32 g of Sodium Hydroxide, Pellets, A.C.S. per Liter of solution.
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1133 1 L
SH1133 3.8 L
SH1133 4 x 3.8 L

Sodium Hydroxide, 0.2 N (N/5)

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

SH1155 1 L
SH1155 3.8 L
SH1155 4 x 3.8 L

Ψ Sodium Hydroxide, 0.25 N (N/4)

*(N/4) 0.2500 N ± 0.0005 N (0.2495 - 0.2505 N) Aqueous
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1170 1 L
SH1170 3.8 L
SH1170 4 x 3.8 L
SH1170 20 L

Ψ Sodium Hydroxide, 0.5 N (N/2)

*(N/2) 0.500 N ± 0.002 N (0.498 - 0.502 N) Aqueous Solution
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1089 1 L
SH1089 3.8 L
SH1089 4 x 3.8 L
SH1089 20 L

Ψ Sodium Hydroxide, 1.0 N

*1.000 N ± 0.005 N (0.995 - 1.005 N) Aqueous Solution
Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k*

SH1180 1 L
SH1180 3.8 L
SH1180 4 x 3.8 L
SH1180 20 L

Ψ Sodium Hydroxide, 3.0 N

3.00 N ± 0.05 N (2.95 - 3.05 N) Aqueous Solution

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1185	1 L
SH1185	3.8 L
SH1185	4 x 3.8 L
SH1185	20 L

Ψ Sodium Hydroxide, 5.0 N

5.00 N ± 0.05 N (4.95 - 5.05 N) Aqueous Solution

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1190	1 L
SH1190	3.8 L
SH1190	4 x 3.8 L
SH1190	20 L

Ψ Sodium Hydroxide, 6.0 N

6.00 N ± 0.05 N (5.95 - 6.05 N) Aqueous Solution

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1200	1 L
SH1200	3.8 L
SH1200	4 x 3.8 L
SH1200	20 L

Ψ Sodium Hydroxide, 10.0 N

10.00 N ± 0.05 N (9.95 - 10.05 N) Aqueous Solution

Standardized with Potassium Hydrogen Phthalate, NIST SRM 84k

SH1210	1 L
SH1210	3.8 L
SH1210	4 x 3.8 L
SH1210	20 L

Ψ Sodium Hydroxide, 2% (w/v)

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

SH6585	1 L
SH6585	3.8 L
SH6585	4 x 3.8 L
SH6585	20 L

Ψ Sodium Hydroxide, 3% (w/v)

[CalTrans Test 213] Aqueous Solution

30 grams Sodium Hydroxide per Liter of solution ~ 0.75 Molar

(Method of Test for Organic Impurities in Concrete Sand)

SH6117 1 L

SH6117 3.8 L

Ψ Sodium Hydroxide, 5% (w/v)

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

SH6530 1 L

SH6530 3.8 L

SH6530 4 x 3.8 L

SH6530 20 L

Ψ Sodium Hydroxide, 10% (w/v)

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

SH6595 1 L

SH6595 3.8 L

SH6595 20 L

Ψ Sodium Hydroxide, 17.5% (w/v)

175 grams of Sodium Hydroxide per Liter of solution.

4.375 N ± 0.0438 N (± 1% by weight)

SH6550 1 L

SH6550 3.8 L

SH6550 10 L

SH6550 20 L

Ψ Sodium Hydroxide, 20% (w/v)

200 g Sodium Hydroxide per Liter of solution. 5 N

SH6720 1 L

SH6720 3.8 L

SH6720 4 x 3.8 L

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

9.958 Molar (Normal) d= 1.3277 g/mL

SH6530 3.8 L

SH6530 4 x 3.8 L

SH6530 20 L

Ψ Sodium Hydroxide, 40% (w/v)

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

SH6170	3.8 L
SH6170	4 x 3.8 L
SH6170	20 L

Ψ Sodium Hydroxide, 50% (w/v)

500 g Sodium Hydroxide per Liter of solution. 12.5 N

SH6180	3.8 L
SH6180	4 x 3.8 L
SH6180	20 L

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

Approximately 19 N, ~763 g Sodium Hydroxide per Liter (76.3% w/v) $d=1.53$ g/mL
Difference between 50% (w/w) and 50% (w/v) is 263 grams/L of Sodium Hydroxide!

SH9150	1 L
SH9150	3.8 L
SH9150	4 x 3.8 L

Ψ Sodium Hydroxide, Pellets, A.C.S. Grade

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

SH9595	500 g
SH9595	2.5 kg

Ψ Sodium Hydroxide, Beads, Technical Grade

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

SH9445	500 g
SH9445	2.5 kg
SH9445	12 kg

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	

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

Na₂HPO₄ F.W. 141.96 CAS 7558-79-4 Assay: 99.0% min.

[Disodium Hydrogen Phosphate]

SP9515	500 g
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SP9515 2.5 kg

Sodium Salicylate, Crystal, Reagent Grade

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

SS9482 500 g

SS9482 2.5 kg

Sodium Sulfate, Anhydrous, A.C.S. Grade

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

SS9525 500 g

SS9525 2.5 kg

Sodium Sulfate, Anhydrous, Technical Grade

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

SS9425 500 g

SS9425 2.5 kg

Sodium Sulfate, 2% (w/v) Aqueous

Can Liner Rater Electrolyte 470

SS6821 3.8 L

SS6821 4 x 3.8 L

SS6821 20 L

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

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

SS6136 3.8 L

Sodium Sulfit, Anhydrous, A.C.S. Grade

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

SS9535 500 g

SS9535 2.5 kg

Sodium Sulfite, Technical Grade

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

SS9543 500 g

SS9543 2.5 kg

Sodium Sulfite, 1.0 M

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

SS1911 1 L

SS1911 3.8 L

Sodium Thiosulfate, 0.01 N (N/100)

$0.0100\text{ N} \pm 0.0005\text{ N}$ (0.0095 - 0.0105 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1220 500 mL

ST1220 1 L

ST1220 3.8 L

Sodium Thiosulfate, 0.025 N (N/40)

$0.0250\text{ N} \pm 0.0005\text{ N}$ (0.0245 - 0.0255 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1230 500 mL

ST1230 1 L

ST1230 3.8 L

Sodium Thiosulfate, 0.0375 N

$0.0375\text{ N} \pm 0.0005\text{ N}$ (0.0370 - 0.0380 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1240 500 mL

ST1240 1 L

ST1240 3.8 L

Sodium Thiosulfate, 0.1 N (N/10)

$0.1000\text{ N} \pm 0.0005\text{ N}$ (0.0995 - 0.1005 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1250 500 mL

ST1250 1 L

ST1250 3.8 L

ST1250 4 x 3.8 L

Sodium Thiosulfate, 1.0 N

1.000 N ± 0.005 N (0.995 - 1.005 N)

Standardized with Potassium Dichromate, NIST SRM 136e

ST1260	500 mL
ST1260	1 L
ST1260	3.8 L

Sodium Thiosulfate, Pentahydrate, A.C.S. Grade

Na₂S₂O₃·5H₂O F.W. 248.19 CAS 10102-17-7 Assay: 99.5 - 101.0%

[Sodium Hyposulfite]

ST9545	500 g
ST9545	2.5 kg
ST9545	5 kg
ST9545	12 kg

Sodium Thiosulfate, Pentahydrate, Photo Grade

Na₂S₂O₃·5H₂O F.W. 248.19 CAS 10102-17-7 Assay: 99.5 - 101.0%

[Sodium Hyposulfite]

ST9545	500 g
ST9545	2.5 kg
ST9545	5 kg
ST9545	12 kg

Sorbic Acid Standard, 250 mg/L (ppm)

Potassium Sorbate in Ethanol, 10% (v/v) approximately.

SS7123	100 mL
SS7123	500 mL

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

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

ST9585	500 g
ST9585	2.5 kg

Starch Indicator, 1% (w/v) Aqueous

Contains a proprietary preservative!

SI4990	500 mL
SI4990	1 L
SI4990	3.8 L

Strontium Atomic Absorption Standard, 1,000 mg/L (ppm)

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

SR7782 **100 mL**

SR7782 **500 mL**

Sulfuric Acid, 0.02 N (N/50)

0.0200 N ± 0.0005 N (0.0195 - 0.0205 N)

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

SA1270 **1 L**

SA1270 **3.8 L**

SA1270 **4 x 3.8 L**

Sulfuric Acid, 0.04 N (N/25)

0.0400 N ± 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**

SA1275 **3.8 L**

SA1275 **4 x 3.8 L**

Sulfuric Acid, 0.1 N (N/10)

0.1000 N ± 0.0005 N (0.0995 - 0.1005 N)

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

SA1290 **1 L**

SA1290 **3.8 L**

SA1290 **4 x 3.8 L**

Sulfuric Acid, 0.2 N (N/5)

0.2000 N ± 0.0005 N (0.1995 - 0.2005 N)

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

SA1300 **1 L**

SA1300 **3.8 L**

SA1300 **4 x 3.8 L**

Sulfuric Acid, 0.5 N (N/2)

$0.5000\text{ N} \pm 0.0005\text{ N}$ (0.4995 - 0.5005 N)

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

SA1310 **1 L**
SA1310 **3.8 L**
SA1310 **4 x 3.8 L**

Ψ Sulfuric Acid, 1.0 N

$1.000\text{ N} \pm 0.005\text{ N}$ (0.995 - 1.005 N)

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

SA1320 **1 L**
SA1320 **3.8 L**
SA1320 **4 x 3.8 L**

Ψ Sulfuric Acid, 2.0 N

$2.000\text{ N} \pm 0.005\text{ N}$ (1.995 - 2.005 N)

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

SA1330 **1 L**
SA1330 **3.8 L**
SA1330 **4 x 3.8 L**

Ψ Sulfuric Acid, 5.0 N

$5.000\text{ N} \pm 0.005\text{ N}$ (4.995 - 5.005 N)

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

SA1340 **1 L**
SA1340 **3.8 L**
SA1340 **4 x 3.8 L**

Ψ Sulfuric Acid, 5.25 N

$5.250 \pm 0.005\text{ N}$ (5.245 - 5.255 N)

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

SA1350 **1 L**
SA1350 **3.8 L**
SA1350 **4 x 3.8 L**

Ψ Sulfuric Acid, 10.0 N

$10.00\text{ N} \pm 0.05\text{ N}$ (9.95 - 10.05 N)

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

SA1360 1 L
SA1360 3.8 L
SA1360 4 x 3.8 L

Ψ Sulfuric Acid, 19.2 N

$19.20\text{ N} \pm 0.05\text{ N}$ (19.15 - 19.25 N)

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

SA1370 1 L
SA1370 3.8 L
SA1370 4 x 3.8 L

Ψ Sulfuric Acid, 10% (w/w)

$1.087\text{ M} = 2.174\text{ N}$ $d = 1.0661\text{ g/mL}$

SA6610 1 L
SA6610 3.8 L

Ψ Sulfuric Acid, 20% (v/v), [1 + 4]

$M = 2\text{ N}$ This is about 7.2 N and $d = 1.655\text{ g/mL}$

SA6489 1 L
SA6489 3.8 L
SA6489 4 x 3.8 L
SA6489 10 L
SA6489 20 L

Ψ Sulfuric Acid, 25% (v/v), [1 + 3]

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

GC6284 1 L
GC6284 3.8 L
GC6284 4 x 3.8 L
GC6284 10 L
GC6284 20 L

Ψ Sulfuric Acid, 18% (w/w)

$2.064\text{ Molar} = 4.128\text{ N}$ $d = 1.1245\text{ g/mL}$

SA6813 3.8 L
SA6813 4 x 3.8 L

Ψ Sulfuric Acid, 30% (w/w)

$3.729 M = 7.458 N$ $d = 1.2191 \text{ g/mL}$

SA6482 1 L
SA6482 3.8 L
SA6482 4 x 3.8 L

Ψ Sulfuric Acid, 36% (w/w) Technical Grade

$4.656 M = 9.312 N$ $d = 1.2685 \text{ g/mL}$

SA9436 1 L
SA9436 3.8 L
SA9436 4 x 3.8 L

Ψ Sulfuric Acid, 40% (w/w)

$5.313 M = 10.626 N$ $d = 1.3028 \text{ g/mL}$

SA6488 1 L
SA6488 3.8 L
SA6488 4 x 3.8 L

Ψ Sulfuric Acid, 50% (w/w)

$7.113 M = 14.226 N$ $d = 1.3952 \text{ g/mL}$

SA6483 1 L
SA6483 3.8 L
SA6483 4 x 3.8 L

Ψ Sulfuric Acid, 50% (v/v) [1+1]

$9 M = 18 N$ $d = 1.4931 \text{ g/mL}$

SA6677 1 L
SA6677 3.8 L
SA6677 4 x 3.8 L

Ψ Sulfuric Acid, A.C.S. Grade

H_2SO_4 F.W. 98.08 $d = 1.840 \text{ g/mL}$ CAS 7664-93-9 Assay: 95.0 - 98.0% [Oil of Vitriol]

$M = 2 N$; concentrated Sulfuric Acid is about 36 N. Corrosive

SA9090 500 mL
SA9090 1 L
SA9090 2.5 L
SA9090 3.8 L
SA9090 4 x 3.8 L

Ψ Sulfuric Acid, 66° Baume

H_2SO_4 F.W. 98.08 $d=1.820$ g/mL CAS 7664-93-9 Assay: 91.0 - 95.0% [Oil of Vitriol]

About 93% (w/w)

Corrosive

SA9233 1 L
SA9233 3.8 L
SA9233 4 x 3.8 L

Thorium Nitrate, 0.0005 Molar Aqueous

$Th(NO_3)_4 \cdot 4H_2O$ F.W. 552.12 CAS 13470-07-0 For Fluoride and Phosphonates by titration.

TN1305 1 L
TN1305 3.8 L

Thorium Nitrate, 0.001 Molar Aqueous

$Th(NO_3)_4 \cdot 4H_2O$ F.W. 552.12 CAS 13470-07-0 For Fluoride and Phosphonates by titration.

TN1310 1 L
TN1310 3.8 L

Thorium Nitrate, 0.003 Molar Aqueous

$Th(NO_3)_4 \cdot 4H_2O$ F.W. 552.12 CAS 13470-07-0 For Fluoride and Phosphonates by titration.

TN1310 1 L
TN1310 3.8 L

Thorium Nitrate, 0.1 Molar Aqueous

$Th(NO_3)_4 \cdot 4H_2O$ F.W. 552.12 CAS 13470-07-0 For Fluoride and Phosphonates by titration.

TN1432 1 L
TN1432 3.8 L

Ψ Tin Atomic Absorption Standard, 1000 mg/L (ppm)

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

SN7783 100 mL
SN7783 500 mL

Total Ionic Strength Adjustment Buffer (TISAB II)

For Fluoride Ion-Specific Electrode (ISE) contains 1, 2-Cyclohexylenediaminetetraacetic Acid (CDTA).

TI2140 1 L
TI2140 3.8 L
TI2140 20 L

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

TX9442 1 L

TX9442 3.8 L

Tungsten Atomic Absorption Standard, 1,000 mg/L (ppm)

Sodium Tungstate in water; Verified NIST SRM 3163

W7784 100 mL

W7784 500 mL

Urea, A.C.S. Grade

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

UR9409 500 g

UR9409 2.5 kg

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

DI7063 20 L

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. From Distilled Water.

DI7062 1 L \$9.55

DI7062 3.8 L

DI7062 20 L

Water, Type I ASTM D-1193

Resistivity: 18.0 MΩ-cm; Total Organic Carbon (TOC): 50 (ppb) max.

Silica: 3 ppb max.; Chlorides: 1 ppb max.; Sodium: 1(ppb) max.

DI7061 1 L \$9.55

DI7061 3.8 L

DI7061 20 L

Ψ Xylenes, Laboratory Grade

C_8H_{10} F.W. 106.17 d 0.860 g/mL 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

XY9295 4 x 3.8 L

Ψ Zinc Atomic Absorption Standard, 1000 mg/L (ppm)

Zinc in 2% Nitric Acid; Verified NIST SRM 3168

ZN7784 100 mL

ZN7784 500 mL

Ψ Zinc Metal, Granular, 20 Mesh, A.C.S.

Zn A.W. 65.39 CAS 7440-66-6

ZN9015 100 g

ZN9015 500 g

ZN9015 2.5 kg

Zinc Sulfate, Heptahydrate, A.C.S. Grade

$ZnSO_4 \cdot 7H_2O$ F.W. 287.56 CAS 7446-20-0 Assay: 99.0 - 103.0% *Hygroscopic*

ZS9587 500 g

ZS9587 2.5 kg

Ψ Zirconium Atomic Absorption Standard, 1000 mg/L (ppm)

Zirconyl Nitrate in 10% Nitric Acid; Verified NIST SRM 3169

ZR7786 100 mL

ZR7786 500 mL

Legend:

A.C.S. - 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 ($1.8 \times ^\circ\text{F} + 32$)

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

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)

$\mu\text{S}/\text{cm}$ - 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 ($\mu\text{g}/\text{L}$ 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