



# **ALL WORLD SCIENTIFIC**

*17120 Tye Street SE, Suite D - Monroe WA 98272*

**2012**

## **WINEMAKERS ANALYSIS TESTING SUPPLIES**

### **Phone Orders**

(800) 289-6753

(360) 453-2090

### **Fax Orders**

(360) 453-2091

### **Email**

[sales@awscientific.com](mailto:sales@awscientific.com)

### **Web Orders**

[www.wine-testing-supplies.com](http://www.wine-testing-supplies.com)

### **Hours (West Coast)**

Mon-Fri 9:00am - 4:00pm

### **Will Call**

Please call 24 hours ahead  
for order pick-up

**All World Scientific** supplies winemakers nationwide with quality standard and specialty merchandise. We provide the latest in equipment and supplies to assure accuracy and efficiency in wine testing. We employ a helpful, knowledgeable sales department to make placing your orders easier.

**PRICING:** All pricing is current at the time of publication, though subject to change without prior notification.

**MINIMUM ORDER:** None

**FOB:** Monroe, WA or Ship Point for drop ship orders



**TERMS:** Net 30 days, after credit is established. Visa, MasterCard, Discover and American Express accepted.

**UPS Hazardous Materials Charges**

**\$37.50 per container for Ground shipments**

**\$47.50 per container for Air Shipments**



**SHIPPING:** All materials are shipped the most economical way possible in accordance with all carrier and DOT regulations. Prices normally include packaging, although occasionally special packaging charges may be added, where required, on hazardous materials. Express orders may be shipped via UPS (NEXT DAY, SECOND DAY or THIRD DAY),

**FREIGHT CLAIMS:** Upon arrival of shipment all packages should be inspected for damage or shortages. Do not accept damaged items until the carrier's driver makes a damage notation on your freight bill of lading. If damage is concealed, the carrier's inspector must be notified of the concealed damage and an inspection request must be made within 7 days of receipt.

**Under ALL circumstances retain damaged containers and packing materials for inspection. Damaged shipments, and all claims for such, are the responsibility of the carrier. If a shortage is noted upon arrival of a shipment, have the carrier's driver make an appropriate notation on your freight bill or receipt, and file a claim with the carrier. If shortage is concealed and not noticed until a later date, notify All World Scientific Customer Service Department for assistance.**

**WARRANTY:** Warranty applies to equipment only for the warranty period stated in literature furnished with the products and applies only to the original purchases. Questions regarding repairs to products with expired warranties should be referred to our Customer Service Dept. All warranted items are for repair or replacement, depending on the manufacturer's policy, credit will not be issued. If a problem develops with any materials purchased from All World Scientific please write, call or fax All World Scientific Customer Service Department for assistance in resolving the situation promptly.

**RETURNS:** In order to obtain credit for returned materials or for a Warranty Repair, a Returned Goods Authorization (RGA) number must be issued by the AWS Customer Service Department. Returns must be made within 30 days of receipt of RGA#. Returns are subject to a restocking fee and/or disposal charge, though application of these charges will depend on the particular circumstances of the situation. Returns which will not be accepted include: Containers which have been opened, products which have exceeded expiration dates, or products requiring refrigeration which have deteriorated for lack of refrigeration.

**AVAILABILITY:** We endeavor to keep most of the items listed in this catalog in stock for immediate shipment from our warehouse in Lynnwood. However; we may experience occasional delays from manufacturers.

**NOTICE:** The chemicals and solutions listed in this catalog are offered for laboratory or manufacturing use only.

We believe that the information and data included in this catalog is true and accurate at the time of publication. Any recommendations or suggestions are made without warranty or guarantee of any kind. Consequently, we can assume no responsibility connected with the use of any of the products or the information included herein. All World Scientific shall not be responsible for any incidental or consequential damages whatsoever.





## **Notice Regarding Chemical Shipments**



Due to federal and international hazardous material shipping regulations, special DOT approved shipping boxes and additional paperwork is involved in shipping those chemicals with the "HAZ" icon.

**Hazardous Material Charges apply to items with this Hazmat Designation.**



For this extra handling a \$35.00 fee will be charged for each Ground HAZ box & a \$45.00 fee for each Air HAZ box.

When shipping 3 or 4 Hazardous boxes for one order, it is often less expensive to ship via common carrier.

When possible, AWS will ship large chemical and supply orders via truck to reduce your freight costs. AWS staff can assist you in preparing larger orders to reduce freight charges.

Please Call AWS Customer Service for questions regarding Hazardous Materials



Dear Winemaker,

With 2012 upon us, AWS has been able to keep costs down on all of our products from chemicals, glassware, plasticware and equipment by sourcing from quality and reliable manufacturers that service the laboratory market.

The past few years have been tough on all of us, but we look forward to a new positive momentum. As 2012 progresses, we would like to let you know we have not had any price increases for this coming season.

We will strive to keep adding new and exciting products that help make your analysis faster and more precise.

As in years in the past, we are your partner in wine testing and carry a complete line of products to fulfill your tasks. AWS has no minimum orders and strives to keep most items in stock for immediate shipment.

Thanks again for letting AWS earn your business, have a wonderful harvest!

AWS Sales Team

To purchase from AWS  
you may choose the following:


Phone: (800) 289-6753

Fax: (360) 453-2091

Email: [sales@awscientific.com](mailto:sales@awscientific.com)

Website:


[www.wine-testing-supplies.com](http://www.wine-testing-supplies.com)

**Aeration Oxidation Assembly for Free Sulfur Dioxide w/Water Aspirator (Option A)** 

**170-3570 \$316.20**

This method is independent of color or other components, it provides a more correct value for the acid-released free SO<sub>2</sub>. An aspirator pump that attaches to a lab faucet is included as a vacuum source, but a vacuum pump may also be used.


471-2358	1/Each	Flask, Sidearm, 100ml
471-3100	1/Each	Impinger Set
471-3016	1/Each	Impinger Stand
030-4737	1/Each	Aspirator Pump
471-3964	1/Each	Pipet, Vol. 20ml, Class A
471-3432	1/Each	Cylinder, Glass, 100ml
065-8866	2/Each	Clamp, General Purpose
060-7281	1/Each	Stand, Metal, 5x8"
170-3885	1/Each	Tubing & Stopper Set
033-1240	1/Each	Dispenser, 5-25ml
170-2849	1/Each	Sodium Hydroxide 0.01N, 16oz
170-4648	1/Each	Phosphoric Acid 25%, 32oz
170-2121	1/Each	Hydrochloric Acid 0.01N, 2oz
175-2177	1/Each	Hydrogen Peroxide 30%, 1oz
175-3577	1/Each	Vacuum Aspir. SO <sub>2</sub> Indic., 0.5oz
170-1589	1/Each	Dilute Acid for SO <sub>2</sub> , 1oz
170-1603	1/Each	Dilute Base for SO <sub>2</sub> , 1oz
170-4186		Instructions

**Improved Free/Total SO<sub>2</sub> Complete Assembly** 

**170-3512 \$1,655.41**

This assembly allows you to determine Free/Total SO<sub>2</sub> by aeration oxidation method. It incorporates the new and improved glassware that utilizes the use of glass frits, which is much less sensitive to small changes in aspiration rate. Comes complete with heating mantle, pump, glassware and chemicals.

471-1983	1/Each	Total & Free SO <sub>2</sub> Apparatus
170-3396	1/Each	Support Stand
471-3964	1/Each	Pipet, Vol. 20ml, Class A
033-1240	1/Each	Dispenser, 5-25ml / 500ml
065-8866	2/Each	General Purpose Clamp
471-3432	1/Each	Cylinder, 100ml Class A
175-3549	6/Each	Tubing, PVC, 1/4"x7/16" EA=1ft
170-4516	1/Each	Accuflow 5000 Pump
221-9627	1/Each	Mantle/Controller
175-3521	1/Each	Tubing Amb Latex 1/4"x1/16" 12ft
170-2849	1/Each	Sodium Hydroxide .01N, 16oz
170-4648	1/Each	Phosphoric Acid 25%, 32oz
170-2121	1/Each	Hydrochloric Acid .01N, 2oz
175-2177	1/Each	Hydrogen Peroxide 30%, 1oz
175-3577	1/Each	Vacuum SO <sub>2</sub> Indicator, 1/2oz
170-1589	1/Each	Dilute Acid for Vac SO <sub>2</sub> , 1oz
170-1603	1/Each	Dilute Base for Vac SO <sub>2</sub> , 1oz
170-4519		Instructions

**Aeration Oxidation Assembly for Free Sulfur Dioxide w/Diaphragm Air Pump (Option B)** 

**170-3575 \$329.45**

This method is independent of other components, it provides a more correct value for the acid-released free SO<sub>2</sub>. This assembly uses a diaphragm air pump which sends a small volume of air through the assembly. You no longer will need a water source or expensive pump to perform the analysis for free SO<sub>2</sub>.

471-2358	1/Each	Flask, Sidearm, 100ml
471-3100	1/Each	Impinger Set
471-3016	1/Each	Impinger Stand
060-4512	1/Each	Diaphragm Pump
471-3964	1/Each	Pipet, Vol. 20ml, Class A
471-3432	1/Each	Cylinder, Glass, 100ml
065-8866	2/Each	Clamp, General Purpose
060-7281	1/Each	Stand, Metal, 5x8"
033-1240	1/Each	Dispenser, 5-25ml
170-3880	1/Each	Tubing & Stopper Set
060-8297	1/Each	Hoffman Clamp
170-2849	1/Each	Sodium Hydroxide 0.01N, 16oz
170-4648	1/Each	Phosphoric Acid 25%, 32oz
170-2121	1/Each	Hydrochloric Acid 0.01N, 2oz
175-2177	1/Each	Hydrogen Peroxide 30%, 1oz
175-3577	1/Each	Vacuum Aspir. SO <sub>2</sub> Indic., 0.5oz
170-1589	1/Each	Dilute Acid for SO <sub>2</sub> , 1oz
170-1603	1/Each	Dilute Base for SO <sub>2</sub> , 1oz
170-4180		Instructions

**Alcohol Determination by Distillation followed by Hydrometry Assembly**

**170-4510 \$246.24**

An inexpensive test to determine alcohol content in your wine. This assembly comes complete to perform the distillation, but you will need to purchase separately the correct hydrometer from the Optional Items below, to perform the hydrometry.

170-4523	1/Each	Alcohol Distillation Apparatus
471-3635	1/Each	Volumetric Flask, 250ml
175-3521	1/Each	Tubing, Latex, 12'
170-1218	1/Pack	Boiling Stones
175-3556	1/Each	Tubing, PVC, 3/8" ID x 1'
611-7808	1/Each	Thermometer, Dual Range
170-1546		Instructions

**Optional Items:**

060-7441	Bunsen Burner (Natural Gas) Heat Source
065-8698	Alcohol Lamp
A1302-04	Antifoam A (to prevent excessive foaming)
170-2198	Hydrometer 0-5% Alcohol, 9" 60F
170-2212	Hydrometer 5-10% Alcohol, 9" 60F
170-2205	Hydrometer 10-15% Alcohol, 9" 60F
170-2188	Hydrometer 15-20% Alcohol, 9" 60F
010-9065	Hydrometer Cylinder, Pyrex Glass, 390mm
471-5641	Hydrometer Cylinder, Glass, 12"
170-1442	Hydrometer Cylinder, Acrylic, 14"
170-1435	Hydrometer Cylinder, PMP, 390mm
170-8521	Pasteur Pipet, 5 3/4"
170-2797	Pipet Bulb, latex to fit Pasteur Pipets
170-2912	Sodium Hydroxide, 1.0N 16oz (HAZARD)

**Malolactic Chromatography Assembly** 

**170-2401 \$69.50**

This self-contained paper chromatography kit has all the items necessary to do 10 chromatograms, each with up to 10 wines, plus some reference acid solutions.

170-1226	1/Each	Jar, WM, 1 Gal, Glass
170-1267	1/Each	Capillary Tube Holder
170-1295	1/Pack	Chrom. Paper #1, 10/pk
170-1274	1/Pack	Capillary Tubes, 100/pk
175-1309	1/Pack	Chrom. Paper #20, 10/pk
175-2471	1/Each	Chromatography Solvent
170-2499	1/Pack	Chrom. Acid Stds. (Tartaric, Malic, Citric, and Lactic)
170-4212		Instructions

**Alcohol Distillation Apparatus (Replacement Parts)**

**170-4523 \$175.45**

This is the Apparatus for the 170-4510 Assembly. Items listed are the replacement parts to the Alcohol Distillation Apparatus.

170-5689	Graham Condenser, 300mm	\$61.25
170-1755	Boiling Flask, Flat Bottom, 500ml	\$24.35
060-7276	Triangle Support "A" Stand/Base	\$16.95
065-8866	General Purpose Clamp	\$13.75
060-7279	Wire Gauze	\$4.50
060-7285	Burner Tripod	\$12.45
170-4511	Distilling Bulb	\$42.20



**Iodine Method For SO2 Assembly**

**170-2338**

**\$95.00**



The iodine (Ripper) method is widely used for SO2 determination, but is not suitable for free SO2 on red wine, wines with botrytis, or whites after ML fermentation. The iodine method measures the acid-released free SO2 by reaction with iodine. Titration apparatus is not included.

170-1771	1/Each	Flask Erlenmeyer, 250ml
170-1778	1/Each	Flask, Erlenmeyer, 500ml
471-3978	1/Each	Pipet, Vol 50ml, Class A
471-3943	1/Each	Pipet, Vol. 5ml, Class A
170-1617	2/Each	Dispenser, Titration, 2ml
170-2296	1/Each	Iodine 0.0156N, 16oz
175-2975	1/Each	Sodium Hydroxide 10%, 16oz
170-3374	1/Each	Sulfuric Acid 1+3 (25%), 16oz
175-3031	1/Each	Starch Indicator 1%, 4oz
175-2961	1/Each	Sodium Thio. 0.025N, 4oz
170-4256		Instructions

**Gold Coast Reducing Sugar Assembly**

**170-2086**

**\$154.00**



Internationally known as "Rebelein Reducing sugar Assembly" This method is based on the reduction of copper and has the same accuracy, +/- 0.01g/100ml in undiluted samples (below 0.5% sugar), +/- 0.1 in diluted ones. Titration apparatus is not included.

170-1771	4/Each	Flask, Erlenmeyer, 250ml
471-3943	1/Each	Pipet, Vol 5ml, Class A
471-3950	1/Each	Pipet, Vol 10ml, Class A
020-3321	4/Each	Pipet, Sero. 10ml, Disp
170-1218	1/Each	Boiling Stones, 1oz
170-2002	1/Each	Gold Coast Solution #1, 16oz
170-2023	1/Each	Gold Coast Solution #2, 16oz
170-2030	1/Each	Gold Coast Solution #3, 16oz
175-2044	1/Each	Gold Coast Solution #4, 16oz
170-2058	1/Each	Gold Coast Solution #5, 16oz
170-2072	1/Each	Gold Coast Solution #6, 16oz
170-4193		Instructions

**Decolorizing Kit for Red Wines**

**170-2458**

**\$77.60**

170-5674	1/Each	Decolorizing Granules, 25g,
065-8712	1/Each	Mortar & Pestle, 145 ml
170-3778	1/Each	Dispenser, 20 cc. Luer Lock
170-1715	1/Each	Swinnex Filter, 25 mm
560-1601	1/Pack	Glass Fiber Filter, 25 mm, 100/pk

**How Sweet It Is!**

**170-1372**

**\$60.05**

Makes testing for dryness in wine easy for any winemaker.

175-2126	1/Pack	Clinitest Tablet, 100/PK
170-2751	10/Each	Pipet, Transfer, Plastic, 1ml
170-3423	3/Each	Test Tube, Flat Bottom
860-1568	3/Each	Dilution Tube Grad., 8ml
170-1365	1/Each	Color Chart for wine
170-4242		Instructions

**Sulfide Detection/Copper Addition Kit**

**170-3353**

**\$29.35**

Contains the solutions necessary to detect and distinguish the types of sulfides found in wine and the treatment necessary to eliminate the odor.

020-3361	3/Each	Pipet, Sero. 1ml, Disp
170-4067	1/Each	Cadmium Sulfate 0.05%, 2oz
170-4081	1/Each	Copper Sulfate 1%, 4oz
170-4074	1/Each	Copper Sulfate 0.05%, 1oz
170-4046	1/Each	Ascorbic Acid 1%, 1oz
170-4221	1/Each	Instructions

**Filtration Assembly (Buchner)**

**170-7153**

**\$87.00**

030-8249	1/Each	Buchner Funnel, 90mm
170-1792	1/Each	Flask, filtration, 1L
065-7539	1/Each	Filter Aid
030-4737	1/Each	Aspirator pump, plastic
170-3528	1/Each	Tubing, Bubble, small 3'

**Titrets Kit**

**170-3486**

**\$31.00**

Self-contained, Free SO2 testing kit has prepackaged solutions in vials, one vial per test.

170-4149	1/Pack	Test Vials, 10/pk
170-4144	1/Each	Titrettor

**Volatile Acidity Assembly**

**170-3598**

**\$1160.02**

This kit contains the necessary components to measure the spoilage acids made by acetic bacteria and other organisms.

471-1420	1/Each	Complete Cash Still, Self-Evacuating
170-3396	1/Each	Support Stand
175-3521	1/Pack	Tubing , Latex, 1/4" I.D.
170-1330	2/Each	Clamp, Snapper, #4
170-1337	2/Each	Clamp, Snapper, #6
170-1344	2/Each	Clamp, Snapper, #8
031-4169	2/Each	Quick Disconnects
031-0905	2/Each	Connector, "Y", 1/4"
063-3216	2/Each	Clamp, 3-Finger
170-2870	1/Each	Sodium Hydroxide 0.067N, 16oz
175-2135	1/Each	Hydrochloric Acid 0.1N, 2oz
170-4277	1/Each	Phenolphthalein 0.5%, 1oz
170-1218	1/Each	Boiling Stones, 1oz
170-1771	2/Each	Flask, Erlenmeyer, 250ml
471-3950	2/Each	Pipet, Vol. 10 ml, Class A
065-8852	1/Each	Tongs, Flask
170-3605	1/Each	Wash Bottle, 250ml
170-4207	1/Each	Instructions
OPTIONAL:	222-3490	Hot Plate/Stirrer

**Total Titration Assembly (Apparatus)**

**170-2842**

**\$108.00**

Contains the necessary equipment for fast, accurate titrations with a 25ml Teflon rotary stopcock glass buret.

475-2369	1/Each	Buret, economy 25ml
170-1048	1/Each	Beaker, Plastic, 100ml
060-7281	1/Each	Stand
170-1928	1/Each	Funnel, buret filling
065-8873	1/Each	Clamp, V-jaw
060-7233	1/Each	Brush, Buret
170-1778	1/Each	Flask, Erlenmeyer 500ml
471-3278	1/Each	Beaker, 400ml
471-3943	1/Each	Pipet, Vol. 5ml, Class A

**Total Titratable Acidity Assembly (Reagents)**

**170-3493**

**\$28.25**

This allows use of a pH meter to determine the titration endpoint.

170-2891	1/Each	Sodium Hydroxide 0.1N, 16oz
175-2135	1/Each	Hydrochloric Acid 0.1N, 2oz
170-4277	1/Each	Phenolphthalein 0.5%, 1oz
170-1582	1/Each	Dilute Acid, 1oz
170-1596	1/Each	Dilute Base, 1oz
170-4179		Instructions

OPTIONS:	360-9958	700pH Meter Benchtop, complete w/Electrode
	222-3169	Stirrer, Economy w/stirbar

**Mini-Titrator for Free & Total SO2 Analysis**

**170-4518 \$715.00**

This Mini-Titrator is a low cost, easy to use, microprocessor based automatic titrator. It has a simple and reliable peristaltic pump that ensures high dosing repeatability. By performing pump calibration with the provided AWS standards, the instrument accuracy is assured.



Each Mini-Titrator is provided complete with supplies needed for 20 titrations.

170-2356	Stabilizer Powder 25/pk	\$45.45
170-4520	Calibration Standard 500ml	\$46.15
170-4524	Acid Reagent 500ml	\$28.75
170-4525	Titrant 500ml	\$27.15
170-4526	Alkaline Reagent 500ml	\$28.75
170-4521	Tubing Complete	\$29.55
361-6845	Probe	\$142.30

**RQflex 10 Reflectometer**


**1.16950.0001 \$895.00**

**Innovative Wine Analysis Meter.** Hand held wine analysis meter, offering specific wine tests that can be performed in most cases in minutes. Perform Malic Acid in 5 minutes with quantitative accuracy.



The Reflectoquant analysis system will provide you with precise details on Malic, Total Acidity, Total Sugar Content and Free SO2 plus other items listed below, in minutes. This system is a quantitative handheld device that saves you time and money. Each test is either a test strip and/or requires some simple diluting of the sample.

**Tests Available (50 tests)**

16981-1	Ascorbic Acid (25-450ppm)	\$74.00
16720-1	Glucose (1-100ppm)	\$84.00
16982-1	Iron (0.5-20ppm)	\$76.00
16128-1	Malic Acid (1-60ppm)	\$120.00
16136-1	Total Sugar (65-650ppm)	\$157.00
16138-1	Total Acidity	\$165.75
16137-1	 Sulfurous (Free SO2) (1-50ppm)	\$99.00

**Antifoam A**

Shelf Life: 1 year  
A1302-04 4 oz \$37.95

**Ascorbic Acid 1% Solution**

Shelf Life: 6 months if refrigerated or until color turns golden brown  
170-4046 1 oz \$6.45

**Boiling Stones**

Shelf Life: Indefinite  
170-1218 1 oz \$4.39  
170-1211 1 lb \$29.65

**Brix 20 Solution**

Shelf Life: Until mold forms, approximately 6 months in refrigerator  
170-4060 1/2 oz \$6.40  
170-4054 2 oz \$20.45

**Bromocresol Green, Sodium Salt (water soluble)**

Shelf Life: Indefinite  
250-3145 5 gm \$32.25

**Butyl Alcohol (Butanol) ACS Reagent**

Shelf Life: Indefinite  
250-3351 500ml \$48.60  
Shipping Information:  
DOT: Butanols, 3, UN1120, PG III, Flammable Liquid



**Cadmium Sulfate 0.05% Solution**

Do not use in samples to be tasted.  
Shelf Life: Indefinite  
170-4067 2 oz \$5.00

**Clinitest Sugar Test Tablets**

Shelf Life: Declining with exposure to air  
Discard when tablets have bright blue spots  
175-2126 100 pk \$49.95  
170-1365 Color Chart \$2.93

**Conductivity Standard, 1413us**

050-4296 16 oz \$17.55

**Copper Sulfate 0.05% Solution**

Shelf Life: Until precipitate forms  
170-4074 1 oz \$5.10

**Copper Sulfate 1% Solution**

Shelf Life: Until precipitate forms  
170-4081 4 oz \$6.25  
170-1379 16 oz \$12.60  
170-1386 32 oz \$17.20

**Copper Sulfate 10% Solution**

Shelf Life: Until precipitate forms  
170-1393 16 oz \$15.35  
170-1400 32 oz \$21.75

**Cupric (Copper) Sulfate, Pentahydrate Crystal,**

**ACS**

250-4508 125 g \$30.45  
250-4516 500 g \$71.10

Shipping Information:  
DOT: Environmentally hazardous substance, n.o.s. (Cupric Sulfate), 9, UN3077, PG III, Marine Pollutant

**Decolorizing Granules**

170-5674 25 g \$8.25

**Dilute Acid for Acidity**

Shelf Life: Until Significant precipitate forms  
170-1582 1 oz \$4.90

**Dilute Acid for Vacuum SO2**

Shelf Life: Until significant precipitate forms  
170-1589 1 oz \$4.90

**Dilute Base for Acidity**

Shelf Life: Until significant precipitate forms  
170-1596 1 oz \$4.90

**Dilute Base for Vacuum SO2**

Shelf Life: Until significant precipitate forms  
170-1603 1 oz \$4.90

**Ethyl Alcohol, Denatured, 200 Proof, Reagent**

Shelf Life: Indefinite  
175-1666 16 oz \$20.60  
250-1019 1 gal \$63.00

Shipping Information:  
DOT: Ethanol, 3, UN1170, PG II, Flammable Liquid



### Fehling A

(Cupric Sulfate Solution)

Shelf Life: Until significant precipitate forms

050-4231	16 oz	\$16.45
050-4238	32 oz	\$21.85

### Fehling B

(Alkaline Tartrate Solution)

Shelf Life: Until significant precipitate forms

050-4203	16 oz	\$27.88
050-4210	32 oz	\$42.19

Shipping Information:

DOT: Corrosive liquids, n.o.s. (Sodium Hydroxide), 8, UN1760, PG II, Corrosive



### Formaldehyde, 37% (v/v) or 40% (w/v), ACS

250-1569	16 oz	\$39.85
250-1571	32 oz	\$52.45
250-1572	1 gal	\$135.40

Shipping Information:

DOT: Formaldehyde, Solution, 3, UN1198, PG III, Flammable



### Formic Acid, 96%, ACS

F1089-500ml	500 ml	\$74.60
F1089-2.5L	2.5 Liter	\$175.60

Shipping Information:

DOT: Formic Acid, 8, UN1779, PG III



### Glassware Cleaner

390-1001	4 lb Alconox	\$37.85
400-1064	1 L Liquinox	\$24.15

### Glucose 0.5% Solution

Shelf Life: Until mold forms (a few months)

170-1995	32 oz	\$18.45
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### Gold Coast #1

(0.168M Cupric Sulfate acidified with Sulfuric Acid)

Shelf Life: Until sediment forms

170-2002	16 oz	\$13.55
170-2009	32 oz	\$19.45

### Gold Coast #2

(Potassium Sodium Tartrate 25%, Sodium Hydroxide 2N)

Shelf Life: Until large precipitate forms, some sediment okay

170-2023	16 oz	\$24.60
170-2016	32 oz	\$41.40

Shipping Information:

DOT: Corrosive liquids, n.o.s. (Sodium Hydroxide), 8, UN1760, PG II, Corrosive



### Gold Coast #3

(Potassium Iodide 30%, Sodium Hydroxide 0.1N)

Shelf Life: Indefinite

170-2030	16 oz	\$35.75
175-2037	32 oz	\$51.60

### Gold Coast #4

(Sulfuric Acid 17.5%)

Shelf Life: Indefinite

175-2044	16 oz	\$14.35
175-2051	32 oz	\$18.85

Shipping Information:

DOT: Sulfuric Acid, 8, UN1830, PG II, Corrosive



### Gold Coast #5

(Starch 1%, Potassium Iodide 2%, Sodium Hydroxide 0.01N)

Shelf Life: Until mold forms

170-2058	16 oz	\$13.65
175-2065	32 oz	\$20.65

### Gold Coast #6

(Sodium Thiosulfate 0.055N, Sodium Hydroxide 0.05N)

Shelf Life: Until blank titration takes 30ml or more

Not very stable, even when refrigerated

170-2072	16 oz	\$15.85
170-2079	32 oz	\$22.95

### Hydrochloric Acid 0.010N Solution

Shelf Life: About 1 year

170-2121	2 oz	\$4.45
170-2128	4 oz	\$6.45
170-2114	16 oz	\$14.90

### Hydrochloric Acid 0.100N Solution

Shelf Life: About 1 year

175-2135	2 oz	\$4.45
175-2149	4 oz	\$6.45
170-2142	16 oz	\$14.90

### Hydrochloric Acid 1.0N Solution

Shelf Life: About 1 year

170-2156	2 oz	\$4.45
170-2163	4 oz	\$6.45
170-2170	16 oz	\$14.90

Shipping Information:

DOT: Hydrochloric Acid, solution, 8, UN1789, PG III



### Hydrogen Peroxide 30% Reagent

Shelf Life: 6 months in refrigerator

175-2177	1 oz	<b>Haz Exempt</b>	\$10.20
170-2191	4 oz		\$20.15
170-2196	8 oz		\$30.95
175-2184	16 oz		\$54.45
175-2193	32 oz		\$98.85

Shipping Information:

DOT: Hydrogen Peroxide aqueous solutions, 5.1, UN2014, PG II, Oxidizer/Corrosive

Note: This product is prohibited to ship via UPS AIR



### Iodine 0.0156N Solution

Shelf Life: Light Sensitive! Several months if unopened, or if standardized regularly and stored in the dark. Keep tightly capped at all times.

170-2310	8 oz	\$15.70
170-2296	16 oz	\$23.65
175-2303	32 oz	\$34.95

### Iodine 0.020N Solution

Shelf Life: Light Sensitive! Several months if unopened, or if standardized regularly and stored in the dark. Keep tightly capped at all times.

175-2331	8 oz	\$15.70
170-2317	16 oz	\$23.65
170-2324	32 oz	\$34.95
170-4270	1 gal	\$105.85

### Lane/Eynon Indicator

(Methylene Blue 0.05%)

170-2359	1 oz	\$13.06
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### Linalool 0.1% Solution

175-2387	1 oz	\$6.15
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### Linalool 100%

175-2394	10 ml	\$14.70
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### ML Chromatography Solvent

175-2471	4 oz	\$21.45
170-2467	8 oz	\$33.55
175-2464	16 oz	\$53.45

Shipping Information: DOT: Flammable liquids, corrosive n.o.s. (Butanol/Formic Acid), 3, UN2924, GP III



**ML Chromatography Standards**

Shelf Life: Until mold grows

170-2506	Tartaric	\$4.95
170-2478	Citric	\$4.95
170-2492	Malic	\$4.95
170-2485	Lactic	\$4.95
170-2499	Set of all 4	\$16.35

**pH Buffer Capsules**

Each Capsule makes 100ml

175-2527	pH 3	\$12.15
175-2534	pH 4	\$12.15
175-2541	pH 7	\$12.15
175-2520	pH 10	\$12.15

**pH Buffer Envelopes**

Each envelope makes 500ml. pack of 5

170-2555	pH 3	\$34.25
170-2562	pH 4	\$34.25
170-2569	pH 7	\$34.25
170-2548	pH 10	\$34.25

**pH Buffer Solution, pH 3.00 to +/- 0.02 pH**

Shelf Life: Unopened bottle in cool place = 1 year. Opened bottle should be kept capped = 3-6 months.

175-2597	4 oz	\$8.25
175-2583	16 oz	\$13.30
175-2618	32 oz	\$20.25
170-2604	1 gal	\$44.30

**pH Buffer Solution, pH 4.01 to +/- 0.01 pH**

Shelf Life: Unopened bottle in cool place = 1 year. Opened bottle should be kept capped = 3-6 months.

170-2653	4 oz	\$8.25
170-2646	16 oz	\$13.30
175-2632	32 oz	\$20.25
170-2639	1 gal	\$44.30

**pH Buffer Solution, pH 7.00 to +/- 0.01 pH**

Shelf Life: Unopened bottle in cool place = 1 year. Opened bottle should be kept capped = 3-6 months.

175-2681	4 oz	\$8.25
175-2660	16 oz	\$13.30
170-2632	32 oz	\$20.25
170-2674	1 gal	\$44.30

**pH Buffer Solution, pH 10.00 to +/- 0.01 pH**

Shelf Life: Unopened bottle in cool place = 1 year. Opened bottle should be kept capped = 3-6 months.

170-2625	4 oz	\$8.25
170-2611	16 oz	\$13.30
175-2590	32 oz	\$20.25
170-2576	1 gal	\$44.30

**pH Electrode Cleaner with Enzymes**

Removes Protein Build-up from electrode bulb (Refrigerate)

170-3808	16 oz	\$11.05
170-3815	32 oz	\$17.50

**pH Electrode Fill Solution**

**4 Molar KCl with AgCl**

250-4515	125 ml	\$16.95
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**Saturated KCl**

360-3353	125 ml	\$16.95
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**3 Molar KCl**

250-4505	125 ml	\$16.95
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**4 Molar KCl**

250-4500	125 ml	\$16.95
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**pH Electrode Storage Solution**

170-2723	8 oz	\$10.15
170-2716	16 oz	\$16.60

**Phenolphthalein 0.5% in 50% IPA**

170-4277	1 oz	Haz Exempt	\$4.55
170-4284	4 oz		\$6.65
170-4288	8 oz		\$10.60

Shipping Information:

DOT: Isopropanol, 3, UN1219, PG II



**Phenolphthalein 1.0% in 95% IPA**

050-6674	1 oz	Haz Exempt	\$6.60
050-6667	4 oz		\$8.00
050-6660	16 oz		\$25.60

Shipping Information:

DOT: Isopropanol, 3, UN1219, PG II



**Phosphoric Acid 25% Solution**

Shelf Life: Indefinite

170-4291	16 oz	\$24.90
170-4648	32 oz	\$33.65
170-4649	1 gal	\$96.85

Shipping Information:

DOT: Phosphoric Acid, 8, UN1805, PG III, Corrosive



**Phosphoric Acid 85% ACS Reagent**

Shelf Life: Indefinite

250-4059	500 ml	\$51.50
250-2016	3.8 L	\$97.45

Shipping Information:

DOT: Phosphoric Acid, 8, UN1805, PG III, Corrosive



**Potassium Chloride, Crystals, ACS**

250-4075	125 g	\$18.95
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**Potassium Iodide, Crystals, ACS**

250-5025	125 g	\$31.25
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**Sodium Hydroxide 0.010N Solution**

Shelf Life: 6 months if unopened, several months if standardized frequently with HCl

170-2863	4 oz	\$6.75
170-2849	16 oz	\$12.50
170-2856	32 oz	\$18.75

**Sodium Hydroxide 0.067N Solution**

Shelf Life: 6 months if unopened, several months if standardized frequently with HCl

170-2884	4 oz	\$6.75
170-2870	16 oz	\$12.50
170-2877	32 oz	\$18.75

**Sodium Hydroxide 0.100N Solution**

Shelf Life: 6 months if unopened, several months if standardized frequently with HCl

170-2905	4 oz	\$6.75
170-2891	16 oz	\$12.50
170-2898	32 oz	\$18.75

**Sodium Hydroxide 0.200N Solution**

Shelf Life: 6 months if unopened, several months if standardized frequently with HCl

170-2893	16 oz	\$12.50
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**\* Helpful Hint \***

**Sometimes it is necessary to split shipments that contain Hazardous Products into separate boxes.**

**As a result, orders may arrive on different days.**



**Sodium Hydroxide 1.0N Solution**

Shelf Life: Until a lot of sediment forms

170-2912	16 oz	\$12.50
170-2919	32 oz	\$18.75

Shipping Information:

DOT: Sodium Hydroxide solution, 8, UN1824, PG II, Corrosive



**Balance, Top Loading, Electronic, MY/TE**

310-2539	i200 (200 g x 0.01g)	\$235.00
310-2541	i500 (500 g x 0.1g)	\$185.00
310-2543	i1200 (1200 g x 0.1g)	\$245.00
310-2600	i2600 (2600 g x 0.1g)	\$275.00



**Sodium Hydroxide 10% Solution**

Shelf Life: Until a lot of sediment forms

170-2940	8 oz	\$8.60
175-2975	16 oz	\$12.60
175-2933	32 oz	\$16.85

Shipping Information:

DOT: Sodium Hydroxide solution, 8, UN1824, PG III, Corrosive



**Balance, Top Loading, Electronic, Ohaus**

Scout Pro Series of Top Loading Balances are reliable and durable

310-2752	200 g x 0.01g	\$359.65
310-2756	400 g x 0.1g	\$225.15
310-2851	600 g x 0.1g	\$310.05
310-2852	2000 g x 0.1g	\$359.65
310-2853	4000 g x 0.1g	\$520.00
310-2854	6000 g x 1.0g	\$280.00



**Sodium Hydroxide Pellets, ACS Reagent**

Shelf Life: Until caked with moisture. Keep tightly capped.

250-5001	500 g	\$38.80
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Shipping Information:

DOT: Sodium Hydroxide, solid, 8, UN1823, PG II, Corrosive



**Balance, Triple Beam, A+ Brand**

Capacity: 2610g x 0.1g Stainless Steel Pan

310-6447		\$152.50
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**Sodium Thiosulfate 0.025N Solution**

Shelf Life: 6 months

175-2961	4 oz	\$7.80
170-2947	16 oz	\$11.90

**Sodium Thiosulfate 0.100N Solution**

Shelf Life: 1 year

170-2975	4 oz	\$11.95
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**Starch 1% Solution**

Shelf Life: Several months or until molds excessively or separates

175-3024	2 oz	\$6.45
175-3031	4 oz	\$7.75
175-3017	16 oz	\$11.90

**Starch, Soluble, Powder**

Shelf Life: Indefinite

250-5077	125 g	\$27.70
250-5079	500 g	\$75.95

**Stopcock Grease**

170-3829	5.3 oz	\$38.15
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**Sulfuric Acid 25 % Solution**

Shelf Life: Indefinite

175-3388	4 oz	\$9.75
170-3374	16 oz	\$15.15
175-3381	32 oz	\$22.95

Shipping Information:

DOT: Sulfuric Acid, 8, UN2796, PG II, Corrosive



**Sulfuric Acid, 95-98%, ACS Reagent**

Shelf Life: Indefinite

250-2313	500 ml	\$37.80
250-1291	3.8 L (Truck Only)	\$72.35

Shipping Information:

DOT: Sulfuric Acid, 8, UN1830, PG II, Corrosive



**Vacuum Aspiration SO2 2-Indicator Solution (Classic) (Green)**

Shelf Life: 6 months or until it fails the color test

175-3577	1/2 oz	\$8.65
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**Vacuum Aspiration SO2 4-Indicator Solution (Blue)**

Shelf Life: 6 months or until it fails the color test

175-3571	1/2 oz	\$9.55
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**Calibration Weights**

Weights are made of Stainless Steel & are ASTM Class 2

310-2759	100 g	\$60.00
310-2763	200 g	\$65.00

**Reagent Digger**

Perfect for weighing small amounts of chemicals

061-7489	229 mm x 25 mm	\$10.50
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**Weigh Boats**

Disposable high impact plastic 125/pk

175-3696	1 3/4" x 3/8"	\$16.35
175-3682	3 5/16" x 3/4"	\$24.50
175-3689	5 1/2" x 7/8"	\$34.05



**Weigh Paper**

Smooth Surface 500/pk

180-8361	3 x 3"	\$13.63
180-8369	4 x 4"	\$19.40
180-8377	6 x 6"	\$25.89



**Beaker, Glass, Reusable**

Low Form Griffin Style, Borosilicate Glass, Double Scale

471-3210	10 ml	\$2.70
471-3225	25 ml	\$3.25
471-3250	50 ml	\$3.35
471-3257	100 ml	\$3.50
471-3264	150 ml	\$3.95
471-3271	250 ml	\$4.15
471-3278	400 ml	\$5.30
471-3285	600 ml	\$7.55
471-3292	800 ml	\$8.65
471-3299	1000 ml	\$14.45
471-3306	2000 ml	\$29.85
471-3315	4000 ml	\$51.05



**Beaker, Polypropylene, Reusable w/Handle**

170-1183	250 ml	\$6.95
170-1197	500 ml	\$7.60
170-1169	1000 ml	\$8.85
170-1176	2000 ml	\$10.15
170-1190	3000 ml	\$15.20
170-1198	5000 ml	\$32.40



**Beaker, Polypropylene, Tri-Pour Economical**

170-1130	50 ml	\$1.40
170-1134	100 ml	\$1.90
170-1148	250 ml	\$2.25
170-1156	400 ml	\$2.60
170-1162	800 ml	\$2.95
170-1141	1000 ml	\$3.30



**Beaker, Polypropylene, Reusable, Griffin Style**

170-1045	50 ml	\$2.35
170-1048	100 ml	\$2.65
170-1051	250 ml	\$3.00
170-1057	500 ml	\$4.45
170-1062	1000 ml	\$5.70
170-1066	2000 ml	\$13.65
170-1075	5000 ml	\$27.40



**Bench Protector**

Great for Spills! Protects work surfaces. Plastic Backed  
040-4553 20" x 300" \$61.60

**Bottle, Clear, Narrow Mouth**

Boston Round w/Polyvinyl Cap



630-7035	4 oz	\$3.20	24/cs	\$57.60
630-8547	8 oz	\$3.75	12/cs	\$33.60
630-2926	16 oz	\$4.90	12/cs	\$44.40
630-5705	32 oz	\$7.20	12/cs	\$64.80

**Bottle, Amber, Narrow Mouth**

Boston Round w/Polyvinyl Cap



630-6699	4 oz	\$3.20	24/cs	\$57.60
630-8225	8 oz	\$3.75	12/cs	\$33.60
630-2625	16 oz	\$4.90	12/cs	\$44.40
630-5527	32 oz	\$7.20	12/cs	\$64.80

**Bottle, HDPE, Narrow Mouth**

Cylindrical Shape,  
Excellent for storing Solutions.  
Case Quantities Only



030-8130	2 oz		24/cs	\$14.25
030-8098	4 oz		24/cs	\$23.00
030-7578	8 oz		12/cs	\$18.80
030-8112	16 oz		12/cs	\$24.55
030-8090	32 oz		12/cs	\$34.35

**Bottle, Polypropylene, Narrow Mouth**

Autoclavable.  
Great for fining trial or storing solutions



030-7601	60 ml	\$1.45	72/cs	\$79.20
030-7561	125 ml	\$1.80	72/cs	\$97.20
030-7577	250 ml	\$2.50	72/cs	\$136.80
030-7593	500 ml	\$3.95	48/cs	\$141.60
030-7553	1000 ml	\$6.25	24/cs	\$112.80
030-7569	2000 ml	\$15.00	6/cs	\$67.50

**Bottle, LDPE, Wide Mouth**

Leakproof, w/Polyethylene Closure.  
Flexible and impact resistant



030-8129	60 ml	\$1.55	72/cs	\$82.80
030-8097	125 ml	\$1.85	72/cs	\$100.80
030-8113	250 ml	\$2.75	72/cs	\$147.60
030-8121	500 ml	\$3.70	48/cs	\$134.40
030-8089	1000 ml	\$6.65	24/cs	\$120.00
030-7801	2000 ml	\$12.10	6/cs	\$54.60

**Bottle, Carboy**

Great design that saves space!  
Autoclavable Polypropylene w/spigot



030-8787	5 L	\$44.95
030-8791	10 L	\$78.45
030-8795	20 L	\$91.80

**Bottle, Wash**

170-3602	125 ml	\$3.60
170-3605	250 ml	\$4.45
170-3612	500 ml	\$5.65



**Brush, Buret**

Great for cleaning Burets.  
White Bristle w/fan tip



060-7233	10 & 25ml Burets	\$4.25
060-7241	50ml Buret	\$5.20

**Brush, Carboy**

Brush has bent end for  
reaching into carboys. 29" L



170-1225	\$8.80
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**Brush, Cylinder**

Black Nylon stiff bristles  
w/multiple splayed ends.  
5" x 2" Bristle x 13" L



170-3871	\$6.30
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**Brush, Flask**

White bristle w/plastic handle.  
4" x 1.5" Bristle x 16" L



061-0785	\$8.05
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**Brush, Flask**

White bristle mounted on a spring wire  
which is mounted on a flat wire. 21" L



061-0737	\$12.05
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**Brush, Pipet**

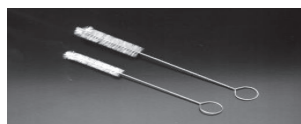
Soft white nylon.  
3" x .5" Bristle x 19" L



061-5729	\$2.50
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**Brush, Test Tube**

Natural Fiber bristles  
w/multiple splayed ends  
mounted on galvanized wire.



062-5617 3" x .5" Bristle x 8" L \$1.95  
062-4577 3.5" x .75" Bristle x 10" L \$2.65

**Brush, Wine Bottle**

Natural Horsehair w/tuft on the  
end for cleaning bottles.  
Great all purpose brush. 15" L



170-1239 \$5.95

**Buret, Automatic**

w/Ground Glass Stopcock  
& Amber Storage Container,  
Subdivided .1ml



471-5891 25 ml \$95.15

**Buret, Glass w/Teflon RotoFlow (Class A)**

**w/certificate**

Borosilicate Glass.

170-1246 10 ml \$85.00  
170-1253 25 ml \$76.20  
170-1260 50 ml \$76.20



**Buret, Glass, Economy, Roto Flow (Class B)**

475-2361 10 ml x .05 \$57.15  
475-2369 25 ml x .10 \$52.20  
475-2373 50 ml x .10 \$55.45  
475-2381 100 ml x .20 \$58.25

**Buret, Bent Tip**

Used in Lane/Eyon Test.  
This Buret has an offset delivery  
to keep steam from heating the solution



471-1308 25 ml \$125.45  
471-1310 50 ml \$125.45

**Self-Zeroing Buret Kit**

This kit will make your  
25 ml or 50 ml buret self-zeroing,  
economically and easily.  
No More Funneling!



032-8720 \$26.15

**Burner, Alcohol Lamp**

Classic style lamp w/wide base to resist tipping

065-8698 Lamp \$10.35  
065-8733 Wicks, 12/pk \$4.65  
175-1666 Ethyl Alcohol 16 oz \$20.60



**Burner, Bunsen**

Tirrill type adjustable burners. Please  
choose the correct one for your type of gas

060-7441 Natural (800-1200) \$50.95  
060-7425 Cylinder (2000-3200) \$52.65  
060-7433 Artificial \$58.05



**Chromatography Paper #1, A+ Brand**

Fast type that stays in solvent about 8 hours. 8" x 10" sheets.  
Store Tightly Closed

170-1295 10/pack \$8.85  
170-1250 50/pack \$34.30

**Chromatography Paper #20, A+ Brand**

Slow type that stays in solvent about 12 hours, but provides  
better resolution. 8" x 10" sheets

175-1309 10/pack \$17.05  
175-1350 50/pack \$63.65

**Clamp, Buret, Double**

Made of die cast Aluminum



170-1323 \$29.95

**Clamp, General Purpose**

Two vinylized jaws to hold glassware fir



065-8866 \$13.75

**Clamp, Tri-Grip**

Clamp opens to 3", w/rubber jaws, rotates  
on 360° axis, and are adjustable between  
rod and apparatus from 3.75" to 5.5"



063-3216 \$29.75

**Clamp, V-Jaw**

Great for holding Burets.



065-8873 \$13.75

**Clamp, Tubing**

Mini clamps for thin wall tubing

060-9601 3/16" OD 10/pk \$12.65  
060-9609 1/2" OD 5/pk \$14.35



**Clamp, Tubing, Snapper**

White Plastic clamp will hold tubing in place  
and will not slip off until  
released sideways on the jaws



Tubing ID/OD  
170-1330 10.3/11.5 mm (7/16") \$0.70  
170-1337 11.4/13.0 mm (1/2") \$0.70  
170-1344 13.0/14.9 mm (9/16") \$0.70

**Clamp, Tubing, Metal, Adjustable**

Fits tubing up to 3/4" OD

060-8297 \$4.35



**Cleaners**

Alconox – Manual Detergent great for glassware.  
Dilute 1:100

Liquinox – Manual Detergent great for manual cleaning.  
Dilute 1:100

390-1001 Alconox 4 lbs \$37.85  
400-1064 Liquinox 1 L \$24.15  
400-1001 Alcojet \$37.85



**Conductivity Meter, Portable**

Affordable meter that comes probe. ATC

360-7498	Meter	\$495.00
050-4296	1413us 16 oz Std	\$17.55
360-7486	Replacement Probe	\$135.00



**Counter**

Hand Tally

221-7889	\$28.50
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**Counting Chamber**

Can be used for making yeast and dust counts  
170-1407 \$124.18

**Cylinder, Glass, Reusable, Class A**

Double Metric Scale,  
Glass Base, "To Contain"

471-3411	10 ml	\$9.40	4/pk	\$28.20
471-3418	25 ml	\$11.95	4/pk	\$37.20
471-3425	50 ml	\$13.80	4/pk	\$41.40
471-3432	100 ml	\$17.60	4/pk	\$52.80
471-3439	250 ml	\$22.20	4/pk	\$66.60
471-3446	500 ml	\$31.35	2/pk	\$51.00
471-3453	1000 ml	\$52.65	2/pk	\$79.00
471-3460	2000 ml	\$81.35	1/pk	\$81.35



**Cylinder, Glass, Reusable, Economy**

Borosilicate Glass w/plastic base,  
"To Contain"

471-3523	10 ml	\$5.85	6/pk	\$26.40
471-3530	25 ml	\$6.25	6/pk	\$28.20
471-3537	50 ml	\$7.10	6/pk	\$32.10
471-3544	100 ml	\$9.25	6/pk	\$41.70



**Cylinder, Hydrometer**

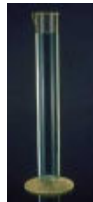
Glass (Pyrex)

010-9065	390 x 50 mm	\$32.25
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Acrylic

170-1442	14" H x 1.75"	\$14.55
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**Polyethylene w/Overflow Cup**

031-2009	12" H x 1.75"	\$54.15
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**PMP**

170-1435	390 x 51 mm	\$20.85
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**Glass (Borosilicate)**

471-5641	12" H x 2"	\$15.85
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**Cylinder, PMP, Reusable**

Clear plastic, heat resistant, autoclavable

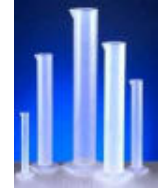
030-9737	10 ml	\$4.75
030-9769	25 ml	\$5.55
030-9785	50 ml	\$7.05
030-9745	100 ml	\$13.30
030-9777	250 ml	\$13.55
030-9793	500 ml	\$17.60
030-9753	1000 ml	\$21.65
030-9761	2000 ml	\$51.45



**Cylinder, PP, Reusable**

Autoclavable, opaque

030-9833	25 ml	\$5.15
030-9849	50 ml	\$7.10
030-9809	100 ml	\$10.15
030-9841	250 ml	\$10.95
030-9857	500 ml	\$12.90
030-9817	1000 ml	\$17.05
030-9825	2000 ml	\$39.25



**Dishes, Petri, Sterile**

Polystyrene and convenient  
packaging sizes available

170-6771	100 x 15 mm	25/pk	\$7.00
170-1010	50 x 11 mm	20/pk	\$6.00
040-9281	150 x 15 mm	20/pk	\$16.95



**Dispenser, Bottle Top, Adjustable**

All dispenser's wetted parts are made from Teflon and glass. Dispenser's come with the following adapters 28mm, 30mm, 32mm, 36mm, 40mm, and 45mm to fit all types of bottles. Fully autoclavable

222-5682	0.5 – 5.0 ml	\$278.00
222-5666	1 – 10 ml	\$278.00
222-5810	2.5 – 30 ml	\$338.00
222-5818	5 – 60 ml	\$358.00



**Dispensers, Measuring, Variable Volume, Plastic**

All plastic design that can be taken apart  
and cleaned.

Top chamber has ounces and milliliters.

033-1240	5 – 25 ml	500 ml	\$25.30
033-1254	5 – 50 ml	500 ml	\$24.85



**Dispensers, Plastic, Syringe Type**

Easy to use.

The Luer Lock Tip Dispenser  
can be used with the Swinnex Filter Holder.

170-3760	10 cc Luer Slip Tip	\$1.45
170-3774	12 cc (Swinnex) Luer Lock Tip	\$3.46
170-3778	20 cc (Swinnex) Luer Lock Tip	\$3.85
170-3766	60 ml Luer Slip Tip	\$3.29



**Drain Stand, Drying**

These are a must for drying your glassware  
and plasticware. Epoxy-coated steel  
available in single or double sided  
Dimensions: 16.75 x 6.5 x 19" with 26 hooks

061-1505	Single Sided	\$78.20
060-9481	Double Sided	\$118.25



**Drain Stand, 90 Places**

This stand comes with 72 3" pins and 18 5" pins. Great for holding all your items. Vinyl coating on all pins  
Dimensions: 18.5 W x 7.1 D x 19" H



061-7233 \$89.35

**Filter Unit, Reusable, Polysulfone**

Accommodates 47mm membrane filters. 250ml Capacity. Use with inline vacuum source. Accepts 1/4" to 5/16" ID Tubing



562-4102 \$121.45

**Ebulliometer, Dujardin-Salleron, Alcohol Burner**

170-1652 Complete Unit \$942.85  
170-3479 Repl Thermometer \$69.75  
170-3710 Wicks 12/pk \$16.35



**Filtration, Holder, Swinnex**

Accommodates 25mm membrane filters. Two piece unit that screws together w/o ring. Use with Dispenser Syringe 12ml Luer Lock (170-3774)



170-1715 Holder \$29.85

**Filtration, Forcep**

Use this for handling membrane filters



561-4895 \$8.55

**Filter Aid**

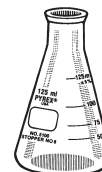
Adapter that fits on top of a 1000 ml filter flask to accommodate Buchner Funnel



065-7539 #5 for 1000 ml Flask \$6.55

**Flask, Erlenmeyer, Graduated**

170-1769	50 ml	\$2.75	12/pk	\$24.60
170-1764	125 ml	\$4.90	12/pk	\$44.40
170-1771	250 ml	\$6.55	12/pk	\$58.80
170-1778	500 ml	\$7.95	6/pk	\$36.00
170-1757	1000 ml	\$11.15	6/pk	\$50.40
170-1759	2000 ml	\$21.65	4/pk	\$65.00
170-1789	3000 ml	\$32.15	4/pk	\$96.40
170-1791	5000 ml	\$61.05	4/pk	\$183.20



**Filter Funnel System, Glass, 47mm**

Content: Anodized Aluminum Clamp, Funnel, Glass Support Base (Fritted), and Silicone Stopper



065-6168 47 mm \$145.00

**Flask, Filtration**

Glass sidearm flask with tabulation

170-1785	500 ml	\$27.35
170-1792	1000 ml	\$54.80
170-1795	2000 ml	\$68.20



**Filtration, Glass Fiber**

Combines fast filtration with high retentive capacity. For filtering carbon from decolorized red wines in sugar tests or removing bentonite from protein stability trials prior to incubation. 100/pk



560-1601	25 mm	\$31.00
560-1105	47 mm	\$31.00
560-1121	70 mm	\$51.05
560-1129	90 mm	\$64.15

(AWS offers other Glass Fiber Filters)

**Flask, Side Port**

Round bottom flask with 24/40 joint and side port that accommodates a thermometer. Accepts a #1 stopper



471-2358 \$49.15

**Filtration, Membrane**

Sterile, White, Gridded, 0.45um, 100/pk



561-6253	25 mm	\$78.00
561-6155	47 mm	\$59.40

(AWS offers other Membrane Filters)

**Flask, Volumetric, Class A, Snap Cap**

High Precision, used in making solutions

471-3600	10 ml	\$7.90	6/pk	\$35.70
471-3607	25 ml	\$9.35	6/pk	\$46.20
471-3614	50 ml	\$17.40	4/pk	\$52.20
471-3621	100 ml	\$19.95	4/pk	\$59.80
471-3635	250 ml	\$23.75	4/pk	\$71.20
471-3642	500 ml	\$29.65	2/pk	\$44.50
471-3649	1000 ml	\$38.00	2/pk	\$57.00



**Filtration, Qualitative, Paper, 90mm**

For use in the Buchner Funnel AWS Part #030-8249

- #1 – All Purpose Filter, Medium Speed & Retention
- #2 – Slower, for Retention of Smaller Particles
- #3 – Thick, Strong Paper, High Capacity, Medium Speed



560-1913	100/pk	#1	\$7.25
560-3977	100/pk	#2	\$7.25
560-8185	50/pk	#3	\$15.10

(AWS offers other Qualitative Filters)

**Flask, Volumetric, Class A, Glass Stopper**

471-3691	50 ml	\$24.80
471-3698	100 ml	\$25.95
471-3719	500 ml	\$32.80
471-3722	1000 ml	\$42.75
471-3725	2000 ml	\$79.20



**Flask, Wine Volume, Calibrated**

170-5216	750 ml	\$158.00
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**Funnel, Buchner**

Accommodates 90 mm Filter Paper

030-8249

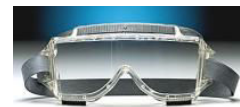
\$16.40



**Goggles, Splash Vent Indirect**

Scratch resistant outside and anti-fog inside lens

070-7554



\$8.85

**Funnel, Glass, Powder**

Short Stem. Filling Bottles.

170-1895

100 mm

\$12.95



**Goggles, Safety, Wraparound**

General safety glasses. Very Cool! Clear Lens w/Black Frame

070-7582

\$7.85



**Funnel, Glass, Utility**

Medium Stem. 60° Angle

170-1935

50 mm

\$6.05

170-1937

75 mm

\$7.80

170-1940

90 mm

\$8.65

170-1943

120 mm

\$10.05



**Hot Plate**

Temperature Range 5-380 C

222-3242

7.5 x 7.5"

\$258.70



**Funnel, Plastic, Large, HDPE**

Designed for transferring liquids. 16" OD x 14" Stem x 4 7/8" Stem

031-1137

\$86.25



**Hot Plate/Stirrer**

Temperature Range 5-380 C with Stir Range 60-1500 RPM

222-3490

7.5 x 7.5"

\$388.70



**Funnel, Plastic, Powder**

031-1353

65 mm

\$3.85

031-1369

100 mm

\$5.20

031-1377

150 mm

\$6.55



**Hydrometer, Alcohol, Tralle/Proof w/Thermometer (Spirit Filled)**

0-100% Alcohol (+/- 1%)

0-200 Proof (+/- 2%), -10 to 100F (1F), 380 mm

610-2579

\$39.35



**Funnel, Plastic, Utility**

170-1876

2.75" D x 2.75" H

\$2.55

170-1883

3.5" D x 4" H

\$2.85

170-1890

4.25" D x 4.75" H

\$3.45

170-1855

5" D x 5.75" H

\$4.95

170-1862

6.4" D x 7" H

\$8.40

170-1869

8" D x 8" H

\$11.15



**Hydrometer, Alcohol, 9" Length**

170-2198

0 - 5%

\$36.45

170-2212

5 - 10%

\$36.45

170-2205

10 - 15%

\$36.45

170-2188

15 - 20%

\$36.45

170-2219

0 - 100% / 0 - 200 proof

\$36.45



**Funnel, Thistle**

Small glass or plastic funnels for filling burets

170-1925

Plastic (50 ml)

\$4.65

471-3149

Glass (small)

\$9.20

471-3142

Glass (large for 50 ml)

\$9.20



**Hydrometer, Brix**

Plain Form.

310 mm to 330 mm

170-2247

-5 to +5

\$22.35

170-2226

0 to 35

\$22.35

170-2233

0 to 12

\$22.35

170-2254

9 to 21

\$22.35

170-2240

19 to 31

\$22.35



**Hydrometer, Brix w/Thermometer, 370 mm**

170-3444

0 to 30 F Bailing

\$38.45

170-3465

-5 to +5 C

\$38.45

170-3451

0 to 12 C

\$38.45

170-3472

9 to 21 C

\$38.45

170-3458

19 to 31 C

\$38.45

170-3463

0 to 35 C

\$38.45



**Gloves, Latex, Powder Free**

Disposable ambidextrous gloves. 100/pk

280-3852

Small

\$12.50

280-3845

Medium

\$12.50

280-3838

Large

\$12.50

280-3859

X-Large

\$12.50



**Gloves, Nitrile, Powder Free**

Disposable ambidextrous gloves. 100/pk.

Great replacement if sensitive to latex.

Good tensile strength.

280-3936

Small

\$15.85

280-3929

Medium

\$15.85

280-3922

Large

\$15.85

280-3943

X-Large

\$15.85



**Hydrometer, Specific Gravity**

Plain Form. 330 mm

170-2261

0.980 to 1.020

\$25.75

170-2268

1.000 to 1.050

\$25.75

170-2275

1.000 to 1.100

\$25.75



**Hydrometer Rack**

Holds 18 Hydrometers.  
9 7/8" H x 8 1/4" W x 8 1/2" D  
610-5641

\$78.40



**Impinger Set**

Two piece bubbler set.  
Used in the Vacuum Aspiration SO2 Assembly

471-3100	Complete Unit	\$77.45
471-3023	Impinger Bottom	\$38.75
471-3086	Impinger Top	\$38.75
471-3016	Plastic Base	\$3.85



**Microscope, A+ Brand**

This package has it all! This is the best economical choice for your microscope needs. We have put together the units that won't break the budget but will give you some of the best optics found on microscopes. Research grade Binoculars with 20W Quartz Halogen Variable Illumination  
Brightfields come w/4X,10X,40X,100X Objectives  
Phase Achromat has 10X, 20X, 40X, 100X  
Phase Plan Achromat has 10X,25X,40X,100X Obj  
291-0269 Brightfield Achromat \$845.00  
291-0271 Brightfield Plan Achromat \$1195.40  
291-0276 Phase Contrast Achromat \$1389.00  
291-0278 Phase Cont Plan Achromat \$1795.00



**Incubator**

Analog.  
Thermal Convection 115V, up to 62 C,  
Internal Dim 12"W x 10"H x 10"D,  
External Dim 13"W x 15"H x 11"D,  
18 month warranty

222-1546 \$375.00



**Microscope, Stereo Zoom**

This precision Stereoscope produces 3 dimensional images. Binocular viewing with 10X wide field eyepieces and zoom magnification of 7X - 45X. 3-way illumination switch allows upper and lower to be on separately or on simultaneously. Upper and lower illumination is a Quartz Halogen 6V/15W Bulb  
291-0356 \$895.00



**Lab Apron, Rubberized**

Acid Resistant

690-4098	27 x 42"	\$15.45
690-4105	36 x 46"	\$18.95



**Microscope Slides, A+ Brand, 3x1"**

290-1113	Plain	72/pk	\$6.35
290-1115	Frosted Single	72/pk	\$9.50



**Lab Coat, Knee Length, White**

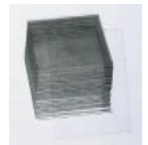
65% Dacron - 35% Cotton Wash-N-Dry

690-4581	32	\$55.65
690-4588	34	\$55.65
690-4595	36	\$55.65
690-4602	38	\$55.65
690-4609	40	\$55.65
690-4616	42	\$55.65
690-4623	44	\$55.65



**Microscope Cover Glass**

290-1465	22mm #1	100/pk	\$5.90
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**Label Tape, 500' x 3/4"**

181-5614	Orange	\$5.35
181-5663	White	\$5.35
181-5565	Blue	\$5.35
181-5593	Green	\$5.35
181-5670	Yellow	\$5.35



**Microscope Slide Box**

290-2473	25 slide	\$7.25
290-1017	50 slide	\$11.85
290-1001	100 slide	\$12.25



**Markers, Lab, A+ Brand**

Quick drying.  
Water & alcohol resistant ink.  
Writes on glass or plastic.  
Very permanent ink!

064-2540	Fine Tip	Black	\$1.85
064-2547	Fine Tip	Blue	\$1.85
064-2554	Fine Tip	Green	\$1.85
064-2561	Fine Tip	Red	\$1.85



**Microscope, Immersion Oil**

170-2282	1/4 oz	\$5.39
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**Mask, Acidic/Organic Vapor**

Disposable mask. Protects from the Chromatography Solvent and other harmful vapors

170-2408 \$34.05



**Microscope, Lens Cleaning Kit**

Kit includes:  
Brush, Lens Paper,  
Cleaning Solution, Swabs

291-5641 \$10.95



**Mask, Dust, A+ Brand**

Great for keeping your lungs clean from dust.  
20/pk

170-3794 \$31.85



**Microscope, Lens Paper**

175-2380	4 x 6"	50/pk	\$3.46
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**Mortar & Pestle, Porcelain**

065-8712 145 ml \$12.35



**Notebook, Laboratory Grid**

100 numbered pages, acid free, date for easy recording w/water & chemical proof cover

185-4210 \$21.95



**Oven, Gravity Convection**

Compact Gravity Oven, 120v Chamber 12"W x 10"H x 10"D (.7 cu ft)

223-8540 225 C / 437 F \$458.00



**Oxygen Meter, Portable**

DO Meter, compact & economical

360-9965 Meter \$495.00  
360-9962 Replacement Probe \$265.00



**Parafilm**

Flexible self sealing thermoplastic, waterproof material

350-1015 2" x 250' \$23.95  
361-2664 4" x 250' \$43.55



**pH Meter, Bench, 3 Star w/Electrode**

New 3 Star Benchtop pH Meter w/ATC Autocalibration Probe. Comes with Electrode, Stand & Buffers

360-4137 \$875.00



**pH Meter, Bench, 700, Oakton**

Meter measures pH, mV, relative mV, and temperature. The large, dual-display LCD provides excellent visibility, Five-point pH calibration, with automatic buffer recognition, over 40% smaller than other benchtop meters.

360-9958 Complete Package \$645.45  
360-9959 Replacement Electrode \$97.85



**pH Meter, Portable, 11, Oakton**

Economical portable unit. Has five point calibration recognition and selectable automatic or manual ATC. All-In-One Probe (360-9970) included.

360-9966 Complete Package \$430.45  
360-9970 Replacement Probe \$97.85



**pH Meter, Pocket Testr, Oakton**

Easy to operate w/ATC and Waterproof

361-6703 Testr 10 +/- 0.1 ph \$105.45  
361-6707 Testr 20 +/- 0.01 ph \$120.15  
361-6705 Replacement Probe \$62.10



**pH Electrode, Double Junction, BNC, A+**

360-9034 Epoxy Gel Filled \$125.85



**pH Electrode, Single Junction, BNC, A+**

360-9041 Epoxy Gel Filled \$84.15



**pH Electrode, Single Junction, BNC, ThermOrion**

360-6754 Epoxy Gel Filled 910600 \$115.00



**pH Electrode, All-In-One, BNC, Oakton**

360-9959 Epoxy Gel Filled for 700 Meter \$97.85



**pH Electrode, All-In-One, BNC, Oakton**

360-9970 Epoxy Gel Filled for Economy 11 \$97.85



**pH Electrode, Glass, BNC, ThermOrion**

360-7314 Refillable 9104BN \$195.00



**pH Electrode, Epoxy Triode, BNC, ThermOrion**

360-7496 Gel Filled 9107BN \$205.00



**pH Electrode, Epoxy, Triple Probe, A+**

360-7497 Equivalent to Orion 9107BN \$105.00



**pH Electrode, Epoxy Triode, BNC, ThermOrion**

361-2390 Refillable 9157BNMD \$321.00



**pH Electrode, Epoxy, Triple Probe, A+**

360-2390 Equivalent to Orion 9157BN \$155.00



**pH Electrode, BNC, RJ, Nova**

360-2113 Refillable Epoxy \$170.50



**pH Electrode, 3-In-One, RJ, BNC, Nova**

360-1025 Refillable Epoxy \$181.50



**pH Electrode Stand**

Swing Arm stand features 21" extension, a pivoting head that holds three probes, and a heavy steel base.

170-1659 \$85.95



**pH Electrode Storage Bottle**

Put about .5 oz of storage solution in the bottle and insert your electrode through the O-ringed hole in the cap.

360-6425 \$12.00



**pH Strips, Non-Bleeding**

Wide assortment packs. Great way to check your pH on the fly. 100 strips per pack.

361-4001	0.0 – 14.0 pH	\$17.15
361-4002	0.0 – 6.0 pH	\$17.15
361-4003	2.0 – 9.0 pH	\$17.15
361-4004	4.5 – 10.0 pH	\$17.15
361-4005	7.0 – 14.0 pH	\$17.15



**pH Strips, Color Compensated**

For measuring colored solutions 361-4010 \$18.70

**Pipet, Measuring, Glass**

471-3810	1 ml	\$8.05
471-3831	5 ml	\$9.10
471-3838	10 ml	\$10.35
471-3845	25 ml	\$11.35



**Pipet, Pasteur, 5 3/4"**

Has long thin tip for transferring liquids

170-8521	Each	\$0.15
020-3553	250/pk	\$28.15



**Pipet, Serological, Glass, Sterile**

Individually Wrapped

020-3281	1/2 ml	\$0.65	100/pk	\$49.00
020-3361	1 ml	\$0.75	200/pk	\$110.00
020-3417	5 ml	\$0.95	100/pk	\$85.00
040-5489 (plastic)	5 ml	\$0.35	25/pk	\$7.50
020-3321	10 ml	\$0.95	100/pk	\$85.00



**Pipet, Transfer, Disposable**

Graduated, Non-Sterile, 7.5ml Capacity with 3.5ml bulb draw

170-2751	each	\$0.35
041-7177	500/pk	\$55.95



**Pipet, Volumetric, Glass, Class A**

471-3908	1/2 ml	\$4.95
471-3915	1 ml	\$3.75
471-3922	2 ml	\$5.70
471-3929	3 ml	\$5.95
471-3943	5 ml	\$6.75
471-3950	10 ml	\$6.90
471-3964	20 ml	\$8.20
471-3971	25 ml	\$9.05
471-3978	50 ml	\$13.15
471-3985	100 ml	\$18.60



**Pipet, Wide Opening, Glass**

170-8705	5 ml	\$14.25
170-8710	10 ml	\$16.00
170-8725	25 ml	\$21.90



**Pipet Aid**

170-2730 \$10.85



**Pipet Filler**

3 corrosive valves control vacuum for filling and delivering. Fits most pipets.

170-2793 \$19.95



**Pipet Pastuer Bulb, Latex**

170-2797 \$1.75



**Pipet Pump, Fast Release**

Great quick and safe way to pipet. Rotating knob to fill and dispense fluid from pipet.

031-4729	2 ml	Blue	\$17.70
031-4737	10 ml	Green	\$17.70
031-4745	25 ml	Red	\$24.20



**Pipet Storage Rack**

Holds 50 pipets vertically. Autoclavable PP. Rows in 5 x 10 configuration. Holds pipets up to 16mm Diameter.

031-5257 \$32.60



**Pipet Storage Rack, Round & Rotary**

For storing and drying pipets

031-5252	28 place round	\$29.85
031-5255	98 place rotary	\$36.45



Call (800) 289-6753 or Fax Orders to (360) 453-2091

**Pipet Tips**

These are Non-Sterile bulk packs

040-5124	20 ul	1000/pk	\$32.00
040-5127	200 ul	1000/pk	\$32.00
040-5136	1000 ul	1000/pk	\$35.00
040-5134	5 ml	500/pk	\$40.00
040-5140	10 ml	400/pk	\$36.00



**Pipettor, Variable Digital**

Fully autoclavable adjustable pipettor, great when you will be performing a lot of pipetting, needing accuracy & precision. Calibration certificate included with each Pipettor

222-4505	Variable Digital 2 – 20 ul	\$156.00
222-4497	Variable Digital 20 – 200 ul	\$156.00
222-4489	Variable Digital 100 – 1000 ul	\$156.00
222-4481	Variable Digital 1 – 5 ml	\$156.00
222-4877	Variable Digital 2 – 10 ml	\$156.00



**Pipettor Station, Acrylic, 4-Place**

Great for storing your pipettors when not in use

184-5613	\$32.95
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**Rack, Test Tube, PP**

Finger type rack, excellent visibility for your samples.

031-9873	14-17 mm	50	\$28.85
031-9865	17-20 mm	40	\$29.45
031-9857	20-25 mm	30	\$29.45



**Rack, Test Tube, PP, No Wire**

Economical compared to wire racks. Outside Dimensions 246 x 104 x 64mm. Interlocking design so you can stack the racks

<u>White (1/each or 5/case)</u>			
030-1345	13 mm	90	\$17.40/ea \$65.25/cs
030-1337	16 mm	60	\$17.40 \$65.25
030-1329	20 mm	40	\$17.40 \$65.25
<u>Red (1/each or 5/case)</u>			
030-1321	13 mm	90	\$17.40/ea \$65.25/cs
030-1313	16 mm	60	\$17.40 \$65.25
030-1305	20 mm	40	\$17.40 \$65.25
<u>Blue (1/each or 5/case)</u>			
030-5649	13 mm	90	\$17.40/ea \$65.25/cs
030-5641	16 mm	60	\$17.40 \$65.25
030-5633	20 mm	40	\$17.40 \$65.25



**Refractometer, Digital, Portable**

Temperature compensated unit with 6 month warranty

226-5881	0-65 Brix .1%	\$533.05
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**Refractometer, Portable, 0-32 Brix, ATC**

Easy to read, sturdy construction

226-5894	\$115.00
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**Refractometer, Portable, 0-32 Brix, ATC**

Large clear markings.

170-2895	BEST VALUE!!	\$108.35
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**Scoop, PP**

3 different sizes available for transferring reagents

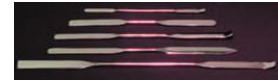
036-5369	4 oz	\$2.90
036-5385	8 oz	\$2.90
036-5377	1 L	\$5.95



**Spatula/Spoon, Stainless Steel**

Excellent spoon/spatula that is sturdy & very strong/resistant

061-3793	\$5.95
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**Spectrophotometer, Digital, Genecysis 20**

Single Beam, 120v, Special range 325 – 1100 nm

222-3037	\$2,455.00
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**Accessories:**

Cuvettes, (4.5ml) Methacrylate, Path 10mm, 100/pk

040-1641	\$27.85
Cuvette Cap, 100/pk	
040-3137	\$11.50
Cuvette Rack LDPE, Holds 12	
030-9721	\$7.25

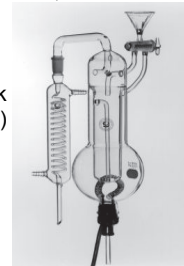
**Still, Cash, Self-Evacuating, Complete**

Borosilicate Glass, used to perform the Volatile Acidity test.

471-1420	Complete Unit	\$935.25
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**Replacement Parts:**

471-1392	Boiler w/Teflon Stopcock	\$635.75
471-1987	Condenser 200 mm (Std)	\$139.53
471-1994	Condenser 300 mm	\$153.65
471-1980	Condenser 400 mm	\$160.97
471-3002	Complete Heating Unit, threaded	\$159.92
471-2995	Heating Coil	\$48.05



**Stirrer, Pyroceram Top**

Top Plate Dim: 7.5 x 7.5". Best material for top plate around!

222-3450	\$258.70
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**Stirrer, Economy**

Great small stirrer, can stir up to 1 L, Top Plate Dim: 4 x 4"

222-3169	\$151.45
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**Stir Bar, Teflon Coated, Octagon Shape**

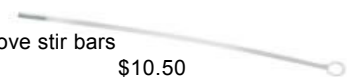
170-3073	5/16 x 1/2"	\$4.85
170-3094	5/16 x 5/8"	\$4.95
170-3080	5/16 x 1"	\$5.25
170-3066	5/16 x 1.5"	\$6.00
170-3059	5/16 x 1 5/8"	\$7.05
170-3087	5/16 x 2"	\$7.50
170-3096	5/16 x 2.5"	\$12.40
170-3098	5/16 x 3"	\$15.50



**Stir Bar Retriever**

PE Rod w/magnetic tip to remove stir bars

060-2961	12"	\$10.50
060-3201	18"	\$12.95



**Stir Rod, Glass**

170-3101	6 mm x 250 mm	\$2.50
170-3108	8 mm x 375 mm	\$4.65

**Stoppers, Gum Rubber, Solid**

170-3339	6.5	\$1.50
170-3346	7	\$1.62
170-3332	12	\$3.58



**Stoppers, Gum Rubber, 1-Hole**

170-4585	0	\$0.78
170-4592	1	\$0.78
170-4606	6.5	\$1.50
170-4613	7	\$1.62
170-4599	12	\$4.18



**Stoppers, Rubber, Solid**

Solid #	1-Hole #	2-Hole #	Size	T x B X L mm	Price
170-3136	170-4281	n/a	000	12.7 x 8.2 x 21	\$0.30
-3129	-4298	n/a	00	15 x 10 x 25	\$0.30
-3122	-3213	170-4312	0	17 x 13 x 25	\$0.60
-3143	-3220	-4368	1	19 x 14 x 25	\$0.60
-3234	-4438	-4445	2	20 x 16 x 25	\$0.60
-3248	-4452	-4459	3	24 x 18 x 39	\$0.72
-3255	-3227	-4466	4	26 x 20 x 25	\$0.72
-3262	-4480	-4487	5	27 x 23 x 25	\$0.90
-3269	n/a	-4473	5.5	28 x 24 x 25	\$0.90
-3276	-4501	-4508	6	32 x 26 x 25	\$1.09
-3283	-4490	-4494	6.5	34 x 27 x 25	\$1.09
-3290	-4529	-3241	7	37 x 20 x 25	\$1.50
-3297	-4515	-4522	7.5	39 x 31 x 25	\$1.50
-3304	-4550	-4557	8	41 x 33 x 25	\$2.09
-3311	n/a	-4543	8.5	43 x 36 x 25	\$2.09
-3318	-4571	-4578	9	45 x 37 x 25	\$2.39
-3325	n/a	-4564	9.5	46 x 38 x 25	\$2.39
-3150	-4326	-4333	10	50 x 42 x 25	\$2.98
-3157	-4319	n/a	10.5	53 x 45 x 25	\$3.29
-3164	-4335	-4340	11	56 x 48 x 25	\$3.88
-3171	n/a	n/a	11.5	63 x 50 x 25	\$4.77
-3178	-4354	-4361	12	64 x 54 x 25	\$5.67
-3185	-4396	-4403	13	68 x 58 x 25	\$5.67
-3192	-4389	n/a	13.5	75 x 62 x 35	\$7.46
-3199	-4410	n/a	14	90 x 75 x 39	\$8.18
n/a	-4417	n/a	15		\$11.90
-3206	-4424	n/a	16	127 x 90 x 50	\$16.11

1-Hole Stoppers – ADD to price above \$0.15 per Each  
 2-Hole Stoppers – ADD to price above \$0.20 per Each



**Sulfur Dioxide Glass Apparatus for Determination of Free/Total**

<b>471-1983</b>		<b>\$621.90</b>
471-1985	Condenser & Impinger Body	\$238.60
471-1989	Impinger Bottom w/Spring Hooks	\$85.95
471-1991	Three Neck Flask w/Spring Hooks	\$149.78
471-1993	Fritted Probe Tube	\$79.58
471-1997	19/38 Stopper for Three Neck Flask	\$22.02
471-3016	Plastic Base for Impinger Bottom	\$3.85
471-2007	1 3/4" Stainless Steel Springs (2 Pair)	\$9.72

**Sulfur Sticks**

170-3367	Appx 15/pack	\$22.45
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**Support Ring**

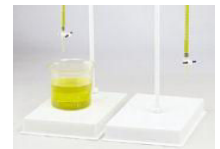
065-8775	ID 2 1/2"	\$13.00
065-8778	ID 4 1/4"	\$14.00



**Support Stand**

8 x 12" Heavy Base with 3/8 x 30" plastic rod

170-3396		\$35.15
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**Support Stand, Steel**

Black rectangle base with zinc plated rod

060-7281	5 x 6" - 3/8 x 20" rod	\$25.60
065-8803	6 x 11" - 1/2 x 36" rod	\$33.55



**Thermometer, Digital**

Easy to operate, SS Probe, Dual Range: -55 / 148C & -69 / 299F

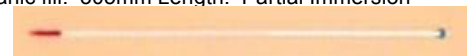
611-4562		\$24.15
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**Thermometer, Glass, Organic**

Mercury Free/Organic fill. 305mm Length. Partial Immersion

611-7801	-20 / 110C	\$11.20
611-7815	-20 / 150C	\$11.20
611-7794	0 / 230F	\$11.20
611-7808	20 / 110C & 0 / 230F	\$16.20



**Timer, Digital, 4-Channel**

Compact design, easy to operate w/stopwatch

222-9513		\$26.15
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**Timer, Big Digit, Dual Display**

Able to simultaneously display timer and clock or two timers. Large easy to read display, stands upright

222-9577		\$39.45
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**Tongs, Beaker**

Holds beakers from 50 ml to 2 L,  
9" Length, 4.5" opening jaws  
065-8838



\$15.15

**Tongs, Beaker**

Plated steel with fiberglass jaws,  
13" length  
065-8845



\$52.85

**Tongs, Flask, V-Jaw**

065-8852



\$38.15

**Tube, Conical, Plastic PP**

50 ml Centrifuge tube. Great for storing  
or centrifuging samples. Sterile

170-4213 25 pack

\$15.25



**Tube, Test, Culture, Glass**

Standard test tube.  
Borosilicate glass, no cap.  
round bottom

170-3437 20 x 150 mm (30ml)  
860-1512 16 x 125 mm (15ml)

Each \$0.55  
250/cs \$35.85



**Tube, Test, Flat Bottom, Glass**

No need for a rack.  
These tubes are used in the sugar test

170-3423 2" x 3/4" (7.3ml)

\$0.55



**Tube, Test, Screw Cap**

Borosilicate glass with round bottom.  
16 x 125 mm with black screw cap

170-3430 12 pack

\$15.45



**Tube, Transport, Plastic PP**

Flat bottom tube, 10 ml, white screw cap.  
Sterile

170-1259 25 pack \$12.95



**Tubes, Capillary, A+ Brand**

Special 25ul tubes,  
ML Chrom test

170-1274 100 pack  
170-1280 500 pack

\$6.85  
\$25.70



**Tube Holder, Capillary**

Plastic white holder for capillary tubes

170-1267 \$9.85



**Tubing, Bubble**

mid-bubble to mid-bubble

170-3528 1/4" x 3' \$6.25



**Tubing, Glass**

2' Length x 1 pound package

170-5962 6 mm OD \$12.00  
170-5987 8 mm OD \$12.00  
170-5993 10 mm OD \$14.00



**Tubing, Latex, Amber**

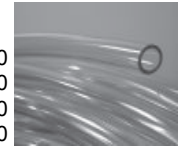
175-3521 1/4" x 1/16" x 12 feet \$24.95



**Tubing, PVC, Clear**

Flexible food grade tubing.  
Can be easily clamped off.

175-3549 1/4" ID x 1 foot \$1.50  
175-3563 5/16" ID x 1 foot \$1.50  
175-3556 3/8" ID x 1 foot \$1.50  
175-3542 1/2" ID x 1 foot \$1.50



**Tubing Connectors, Plastic**

5/16" OD on all connectors  
035-2537 T-Tube \$4.20  
031-0905 Y-Tube \$2.80  
031-5689 Straight \$2.80  
031-4169 Quick Disconnect \$2.80



**Vacu-Guard In-Line Filter, PTFE**

Protects vacuum pump from fluids  
and aerosols getting into the chamber.

561-8787 50 mm Diameter \$20.00



**Vacuum Aspirator Pump, Plastic**

Attaches to a lab faucet and uses  
running water to create vacuum.

030-4737 \$21.05



**Vacuum Pump**

Table top size,  
easy to operate, oil-less diaphragm type

222-6391 \$681.85



**Vacuum Pump, Diaphragm**

Used in the A/O Free SO2 Assembly  
060-4512 \$18.95

**Vacuum Pump, Hand Operated, 36 cc**

Great hand pump for the price.  
Fits 1/4" ID tubing.

033-9829 \$98.00



**Vinometer**

Used for estimating the alcohol content

170-3591



\$14.15

**Watch Glass (Glass)**

Concave, heavy walled with polished edges

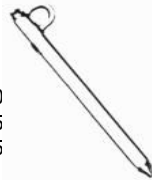
471-8070	70 mm	\$2.45
471-8080	80 mm	\$2.85
471-8090	90 mm	\$3.10
471-8100	100 mm	\$2.95
471-8120	120 mm	\$4.20
471-8150	150 mm	\$5.80



**Wine Thief, Glass**

Straight type w/D Handle, 1.25" OD

170-1050	16"	\$54.80
170-1155	18"	\$59.45
170-1175	20"	\$65.95



**Wine Thief, Glass, Bent**

Bent type w/D Handle, 1.25" OD

170-1040	16"	\$57.85
170-1043	18"	\$62.70
170-1046	20"	\$69.60



**Wine Thief, Glass, Economy**

Straight type

170-3717 12"



\$11.35

**Wine Thief, Plastic**

Breaks into 3 parts

170-3724 19"



\$9.85

**Wipes, General Purpose**

Non-linting

066-6434	Small 4.5x8.5" 280/pk	\$5.50
066-6441	Large 13.5x17" 140/pk	\$11.15



**Is there something you don't see?**

If there is anything you are in need of and do not see in this catalog, please contact AWS Customer Service, as there are many other products AWS carries that are not displayed here.

***Thank You***

for looking to

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for all your

***Wine Testing Supply***

Needs!!