



# Biofuels 2008-2009

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## The Fisher Scientific Biofuels Catalog

Fisher Scientific is proud to present our 2008-2009 Biofuels catalog. The items in this catalog have been specifically selected from our portfolio of 800,000 products for their particular relevance to the biofuels industry.

Some highlights of this catalog:

- Coverage of the full range of activities in this dynamic industry.
  - ◆ Raw material testing
  - ◆ Production process support
    - Bioethanol – milling, fermentation, distillation, dehydration
    - Biodiesel – transesterification, solids separation, viscosity
    - DDGS – protein, fat, fiber and moisture control
    - Safety
  - ◆ Bioscience research
- Identification of the relevant test method, where applicable
- Listing of key test methods

### ***Think Fisher Scientific First!***

Of the approximately 270 producing bioethanol plants in the U.S. at this printing, 60% are served by Fisher Scientific. Why have so many chosen Fisher Scientific?

- The breadth of our product line is second to none, offering you everything you need from a single source
- Our New Lab Start-up Program is an economical way to get your lab off to a productive start
- Services that allow you to focus on research, production and delivery
- Superior delivery capabilities
- Ease of ordering – online, by fax or phone
- Competitive pricing – your Fisher Scientific sales rep can supply custom quotations for your lab
- Key product exclusives with important suppliers in the business

***Fisher Scientific can get you started...  
or keep your lab running smoothly***

#### **For more information**

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## Think Green!

Fisher Scientific supports the sustainable green initiatives of our customers and looks for novel ways to continually improve our business processes to help protect the environment. Our goal is to develop strong customer and supplier partnerships that support and integrate with their sustainability initiatives while adopting supply chain and business practices that have positive environmental outcomes. Our initiatives include the creation of decision support tools such as the carbon calculator and chemical conversion chart, which are focused on process change and chemical molecule replacement opportunities.

Additionally, Fisher Scientific offers a wide range of products from natural cleaning supplies to energy-efficient equipment. Look for the **Green** symbol on our environmentally friendly products.



# Apparatus

## Cans, Metallic

### Eagle Galvanized-Steel Type I Safety Cans



**04-664C** - Ea./\$64.45  
 Can, Safety; Type I; Eagle; 5 gal.; Galvanized steel; Brass pour spout and flame arrestor; 12-1/2 in. Dia. x 13-1/2 in. H; Red

## Desiccators

### Fisherbrand Acrylic Desiccator Cabinets



**08-642-23C** - Cs. of 1/\$601.30  
 Cabinet, Desiccator; Fisherbrand; Acrylic; Stores anhydrous and hygroscopic biological and chemical compounds; Neoprene gasket on door for tight seal; Shelves are removable, adjustable, and vented; No. of shelves: 3; Grooves: 7; 18 in. H  
**Suggested for ASTM Method: E1064**

### Fisherbrand Nonvacuum Desiccator with Porcelain Plate



**08-615A** - Ea./\$219.66  
 Desiccator, Nonvacuum; Fisherbrand; With porcelain sample plate with 5mm center hole, glaze on one side, and no feet; Inside Dia.: 200mm  
**Suggested for ASTM Method: D874**

## Eyewashes

### Fisherbrand Faucet-Mount Personal Eyewash

**19-150-0470** - Ea./\$75.34  
 Eyewash, Faucet-Mount; Fisherbrand; Mounts to both standard and gooseneck faucets; One-step activation; Supplied w/faucet adapter that replaces aerator, universal identification sign, inspection tag

### Encon Swing-Away Eyewash



**18-999-341A** - Ea./\$418.26  
 Station, Eyewash; SwingAway; Countertop; 90 deg. rotation; 2 L x 12-1/2 W x 4 in. H

# Fall Protection and Confined Space Entry

## Confined Space Ventilation

### Air Systems Duct Canister Fans



**19-034-698** - Ea./\$670.97  
 Fan; Duct Canister; Air Systems; AC Axial; Polyethylene; Weight: 22 lb.; 8 in. dia. Outlet; 72dB; CE and CSA approved; AC; 1395cfm free air; With 15 ft. duct installed

### Air Systems Venturi-Style Pneumatic Air Blowers



**18-503** - Ea./\$414.11  
 Blowers, Air; Pneumatic; Air Systems; Venturi-style; 44-1/4 in. Long; Galvanized steel

## Harnesses

### Miller HP Fall Arrest and Retrieval Harnesses



**19-120-2750** - Ea./\$130.55  
 Harness, Retrieval; Miller HP; Teflon HT; XX-Large; With side D-rings; Tongue buckle leg straps; Nylon webbing; Bright Green

## Lanyards and Lifelines

### Miller Manyard II Shock-Absorbing Lanyards



**19-002-989** - Ea./\$114.00  
 Lanyard, Miller Manyard II; Throat Openings: Two: 3/4 in. (1.9cm)

# Firefighting and Emergency Response

## Fire Extinguishers

### Amerex Corporation ABC Fire Extinguisher

**19-041-563** - Ea./\$197.85  
 Fire Extinguisher; ABC; 20 lbs.

**Amerex Corporation Carbon Dioxide Fire Extinguisher**

**19-029-093** - Ea./\$541.35  
 Fire Extinguisher; Carbon Dioxide; Model 332; Hose and Horn application; 20 lbs. capacity; Wall bracket; Temp range -40 to 120 deg. F; Aluminum cylinders

**Amerex Corporation Dry Chemical Fire Extinguisher**

**19-806-025** - Ea./\$52.00  
 Fire Extinguisher; Dry Chemical; Model B417; Nozzle application; 2-1/2 lbs. capacity; Wall/Vehicle-Marine bracket; Temp range -65 to 120 deg. F; Drawn Steel cylinders

**Amerex Halotron I Clean-Agent Stored-Pressure Fire Extinguishers**



**19-035-394** - Ea./\$272.25  
 Extinguisher, Fire; Amerex; Stored-Pressure; Halotron I Clean-Agent; 5 lb.; 4-1/4 D x 5-3/4 W x 15-1/4 in. H

**Amerex Multipurpose Fire Extinguishers**



**19-806-022** - Ea./\$69.85  
 Extinguisher, Multipurpose; Amerex; 5 lb.; Model B402; With Wall Bracket; 4-1/4 D x 7-1/4 W x 15-1/4 in. H; 9-3/4 lb. Shipping weight; Contain specially fluidized and siliconized monoammonium-phosphate-based dry chemical  
**19-133-745** - Ea./\$105.00  
 10 lb.; Aluminum Valve; With Wall Bracket

**Thomas Fire Extinguisher Cabinet**



**19-820-456** - Ea./\$537.12  
 Cabinet, Fire Extinguisher; Thomas; Deluxe; With Window; Seal trim; Gab handle; Stainless steel hinges; UV-inhibited high visibility colors; Mounts on flat surface

**Gauges**

**Fisherbrand Traceable Manometer Pressure Vacuum Gauge**



**06-664-19** - Ea./\$189.43  
 Gauge; Vacuum; Pressure; Fisherbrand Traceable Manometer; -776 to +776mmHg; Divisions: 0.5mm; Comes with tubing, 9V battery, ABS plastic carrying case, RS-232 port, certificate of traceability NIST standards  
**Suggested for ASTM Method: D1160**

**Fisherbrand Traceable Pressure Vacuum Gauges**



**06-662-69** - Ea./\$334.30  
 Gauge, Pressure/Vacuum; Fisherbrand; -736 to +1500mmHg; Resolution: 50mm; Use with all gases and liquids compatible with 316 stainless steel; 1-1/4 L x 3 W x 7 in. H; 9V battery  
**Suggested for ASTM Method: D1160**  
**06-662-68** - Ea./\$511.46  
 736 to +37,500mmHg  
**Suggested for ASTM Method: D1160**

**Ice Makers**

**Bel-Art Frigimat Cub Dry Ice Maker**



**14-512-101** - Ea./\$345.91  
 Maker, Dry Ice; Bel-Art; Frigimat cub; 250 to 350 gram block of dry ice; Transparent polycarbonate body; Secures without clamps or screws; Lightweight body; Rugged nickel plated pigtail; 14.3 x 19.2 x 15.2cm H; 2.2kg shipping weight  
**Suggested for ASTM Method: D2500**

**Ladders and Stepstools**

**Kik-Step Stepstool**



**11-931** - Ea./\$130.11  
 Stepstool; KikStep; Retractable spring-loaded casters; Two steel steps w/rubber treads; Epoxy finish; Rubber bumper around base; 15-1/2 base dia. x 14-1/2 in. H; Capacity: 500 lb.; Gray

**Walter Kidde Escape Ladder**

**19-812-911** - Ea./\$155.49  
 Ladder, Escape; Kidde Pro; 25 in.



# Pipetters

## Dispensers and Fillers

### Fisherbrand Bottle-Top Dispensers



**03-692-177** - Ea./\$379.00  
 Dispenser, Bottle-Top; Fisherbrand; 0.05 to 2.5mL Range; 0.05mL increments; +/-0.7% accuracy; +/-0.1% repeatability; autoclavable to 121 deg. C; low-profile amber reservoirs; borosilicate glass barrel; polypropylene protection sleeve

**03-692-178** - Ea./\$379.00  
 Range: 0.1 to 5mL; 0.1mL increments  
**Suggested for ASTM Method: D4951**

**03-692-179** - Ea./\$400.00  
 Range 0.2 to 10mL; 0.2mL increments  
**Suggested for ASTM Method: D6584**

**03-692-180** - Ea./\$506.00  
 Range: 1 to 30mL; 1mL increments

**03-692-181** - Ea./\$522.00  
 Range: 1 to 50mL; 1mL increments

### Fisherbrand Motorized Pipet Fillers/Dispensers



**03-692-164** - Ea./\$354.00  
 Fillers/Dispensers, Pipet; Motorized; Fisherbrand; Mode switch, three aspirate/dispense speeds; Concave finger triggers; Include filters; Plus model; Color: blue

**03-692-169** - Ea./\$354.00  
 Model: Powerpette Plus Controller; Color: Mauve

**03-692-165** - Ea./\$354.00  
 Model: Powerpette Plus Controller; Color: Mint

**03-692-168** - Ea./\$354.00  
 Model: Powerpette Plus Controller; Color: Pink

**03-692-167** - Ea./\$354.00  
 Model: Powerpette Plus Controller; Color: Turquoise

**03-692-166** - Ea./\$354.00  
 Model: Powerpette Plus Controller; Color: Yellow

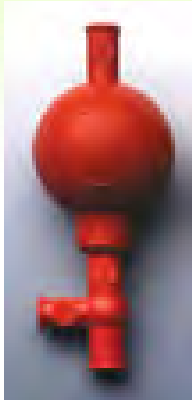
### Fisherbrand Rubber Bulb-Type Safety Pipet Fillers



**13-681-50** - Ea./\$27.99, Cs. of 72/\$1,699.00  
 Pipet Fillers; Fisherbrand Rubber Bulb-Type Safety; Color: Black  
**Suggested for ASTM Method: D512**

**13-681-51** - Ea./\$27.99, Cs. of 72/\$1,699.00  
 Red  
**Suggested for ASTM Method: D512**

### Fisherbrand Silicone Bulb-Type Safety Pipet Fillers



**13-681-102A** - Ea./\$23.99  
 Pipet Fillers; Fisherbrand Silicone Bulb-Type Safety; Color: Red  
**Suggested for ASTM Method: D512**

**13-681-102B** - Ea./\$23.99  
 Black  
**Suggested for ASTM Method: D512**

### Fisherbrand Safety Bulb Pipet Filler



**03-448-23** - Pk. of 3/\$32.52  
 Pipet filler; Fisherbrand Safety Bulb; 1/2 oz. Capacity; Red Rubber bulb attaches to white polypropylene attachment with conical silicone adapter that fits small pipets through the largest volumetrics

# Electronic Pipetters

### Drummond Programmable Pipet-Aid Elite 400



**13-682-00** - Ea./\$509.85  
 Pipetter; Electronic; Pipet-Aid; Programmable; Lightweight; Ergonomic Design; With Power Supply, 110V, Blue  
**Suggested for ASTM Method: D1688**

**13-682-22** - Ea./\$509.85  
 Pipet-Aid Elite 400, Clear  
**Suggested for ASTM Method: D1688**

# Single Channel Pipetters

### Fisherbrand Finnpipe II Single Channel Pipetters



**21-377-814** - Ea./\$278.00  
 Pipetter, Single-channel Air Displacement; Fisherbrand Finnpipe II; Pink, Adjustable Volume, 0.2 to 2uL Micro, Autoclavable, Ergonomic

**21-377-815** - Ea./\$278.00  
 Adjustable Volume, 0.5 to 10uL Micro; Grey

**21-377-816** - Ea./\$278.00  
 Adjustable Volume, 0.5 to 10uL; Grey

**21-377-823** - Ea./\$278.00  
 Adjustable Volume, 1 to 5mL; Green

**21-377-824** - Ea./\$302.00  
 Adjustable Volume, 2 to 10mL; Red

**21-377-817** - Ea./\$278.00  
 Adjustable Volume, 2 to 20uL; Orange

**21-377-818** - Ea./\$278.00  
 Adjustable Volume, 5 to 50uL; Orange

**21-377-819** - Ea./\$278.00  
 Adjustable Volume, 10 to 100uL; Yellow

**21-377-820** - Ea./\$278.00  
 Adjustable Volume, 20 to 200uL; Yellow

**21-377-821** - Ea./\$278.00  
 Adjustable Volume, 100 to 1000uL; Blue

### Fisherbrand Finnpipe II Single-Channel Pipetter Set



**21-377-328** - Ea./\$1,093.00  
 Pipetters set, Fisherbrand Finnpipe II, Single-channel, 4 in set, Volumes include 0.5-10uL; 5-50uL; 20-200uL; 100-1000uL; Stand included

### Eppendorf Research Series Adjustable Volume Pipetters



**05-402-85** - Ea./\$316.00  
 Pipetter; Eppendorf Research Series 2100; Type: Adjustable Volume: 0.1 to 2.5microL

**05-402-86** - Ea./\$326.00  
 Volume: 0.5 to 10uL

**05-402-87** - Ea./\$316.00  
 2 to 20uL; Increments: 0.02uL; Inaccuracy: +/-5.0 to 1.0%; Imprecision: <=1.5 to 0.3%

**05-402-88** - Ea./\$316.00  
 Volume: 10 to 100uL

**05-402-89** - Ea./\$316.00  
 20 to 200uL; Increments: 0.02uL; Inaccuracy: +/-2.5 to 0.6%; Imprecision: <=0.7 to 0.2%

**05-402-90** - Ea./\$316.00  
 100 to 1000uL; Increments:1.0uL; Inaccuracy: +/-3.

**05-402-91** - Ea./\$316.00  
 Volume: 500 to 5000uL

### Thermo Scientific Finnpipe Digital GLP Kits



**14-386-100** - Ea./\$714.00  
 Pipetter; Thermo Scientific Finnpipe Digital GLP Kit 1; Three pipetters from 0.5uL to 1000uL; 0.5-10uL, 10-100uL., 100-1000uL

**14-386-101** - Ea./\$714.00  
 Finnpipe Digital GLP Kit 2; Three Pipetters 2-20uL; 20-200uL; 100-1000uL

Thermo Scientific Finnpiquette Focus GLP Kits



**14-386-102** - Ea./\$736.00  
 Pipetter; Thermo Scientific Finnpiquette Focus GLP Kit; Three pipetter from 1-1000uL 1-10uL; 10-100uL ; 100-1000uL

Thermo Scientific Finnpiquette Focus GLP Kit Max



**14-386-103** - Ea./\$879.00  
 Pipetter; Thermo Scientific Finnpiquette Focus GLP Kit Max; Four pipettors from 1uL to 10,000uL; 1-10uL, 10-100uL, 100-1000uL, 1-10mL;

Multichannel Pipettors

Fisherbrand Finnpiquette II Multichannel Pipettors



**21-377-825** - Ea./\$649.00  
 Pipetter, Multichannel; Fisherbrand Finnpiquette II; 8-Channel; Digital; Micro; 0.5-10microL; Soft-touch tip ejection; Super blow-out; Quick-click volume setting; Large display window; Autoclavable  
**Suggested for ASTM Method: D6584**  
**21-377-827** - Ea./\$649.00  
 8-Channel, Digital, 5-50uL  
**Suggested for ASTM Method: D6584**  
**21-377-829** - Ea./\$649.00  
 8-Channel, Digital, 50-300uL  
**Suggested for ASTM Method: D6584**  
**21-377-826** - Ea./\$814.00  
 12-Channel, Digital, Micro, 0.5-10uL  
**Suggested for ASTM Method: D6584**  
**21-377-828** - Ea./\$814.00  
 12-Channel; Digital, 5-50uL  
**Suggested for ASTM Method: D6584**  
**21-377-830** - Ea./\$814.00  
 12-Channel, Digital, 50-300uL  
**Suggested for ASTM Method: D6584**

Pipetter and Pipet Accessories

Fisherbrand Bottle-Top Dispensers Anti-Tip Reservoirs

**03-692-182** - Ea./\$112.50  
 Dispensers, Bottles Top; Fisherbrand; Anti-Tip Reservoirs; Capacity: 1.4L; Neck Opening: 30mm  
**Suggested for ASTM Method: D4951**  
**03-692-183** - Ea./\$132.00  
 Capacity: 2.5L

Racks

Test Tube Racks

Fisherbrand Poxygrid Test Tube Racks



**14-793-6** - Ea./\$54.74, Cs. of 12/\$561.43  
 Rack, Test tube; Fisherbrand; Autoclavable; Blue epoxy-coated; No. of places: 40; For Tubes: 22-25mm  
**Suggested for ASTM Method: D130**

Bel Art Scienceware No-Wire Grip Racks



**14-791-9B** - Ea./\$24.30, Cs. of 8/\$185.26  
 Rack, Test Tube; No-Wire; Grip; 15-16mm Tube size; 60 places; Polypropylene; Will not float; Stackable; 4-1/8 L x 9-3/4 W x 2-3/4 in. H; Two plates

Nalgene Unwire Test Tube Racks



**14-809-24** - Ea./\$29.72, Cs. of 8/\$158.50  
 Rack, Test Tube; Unwire; ResMer resin; Repeatedly autoclavable; Smooth finish; Numbers and letters are molded into top tier; For 16mm tubes, 72 places; L x W x H: 9-3/4 x 5 in. (24.8 x 12.7cm); White  
**14-809-44** - Ea./\$32.53, Cs. of 8/\$173.49  
 For 30mm tubes; 24 places; 11L x 4-1/4 in. W (28.3 x 10.8cm); Blue

Respirators

Air Purifying Respirator Cartridges

MSA Combo Cartridges



**18-947** - Pk. of 10/\$65.18  
 Cartridge: Organic Vapor/Acid Gas/Ammonia/Methylamine/Formaldehyde/Hydrogen Fluoride; MSA Comfo; Approved for: Organic vapors, chlorine, sulfur dioxide, chlorine dioxide, hydrogen chloride, hydrogen sulfide (escape only), am

Air Purifying Respirators

MSA Comfo Elite Respirator



**19-043-892** - Ea./\$44.20  
 Respirator; Air; Comfo Elite; Medium; Silicone construction; Cradle headband; Large chin cup  
**19-058-279** - Ea./\$44.20  
 Large

Sampling Pumps

Industrial Scientific Corporation Sampling Pump

**18-063F** - Ea./\$814.13  
 Pump, Sampling; SP402; Motorized; Operates on Ni-Cad, Lithium or Alkaline batteries

Sieves

Fisherbrand U.S. Standard Brass and Stainless Steel Test Sieves



**04-881-10X** - Ea./\$99.69  
 Sieves, Test; Stainless Steel; Fisherbrand; 8 in. dia. x 2 in. D; 150um Nominal opening; U.S. Standard No. 100; 100 Tyler Equivalent  
**04-881-5P** - Ea./\$73.58  
 600um Nominal opening; U.S. Standard No. 30; 28 Tyler Equivalent  
**04-881-5K** - Ea./\$73.58  
 1.18mm Nominal opening; U.S. Standard No. 16; 14 Tyler Equivalent  
**04-881-10B** - Ea./\$93.45  
 4.75mm Nominal opening; U.S. Standard No. 4; 4 Tyler Equivalent

Fisherbrand U.S. Standard Brass Test Sieves, 8 in. dia. x 1 in.D



**04-881-5Q** - Ea./\$73.58  
 Sieves, Test; Standard Brass; Fisherbrand; 8 in. dia. x 1 in. D; 500um Nominal opening; U.S. Standard No. 35; 32 Tyler Equivalent  
**04-881-5N** - Ea./\$73.58  
 710um Nominal opening; U.S. Standard No. 25; 24 Tyler Equivalent

**04-881-5M** - Ea./\$73.58  
850um Nominal opening; U.S. Standard No. 20; 20 Tyler Equivalent

**04-881-5H** - Ea./\$73.58  
1.7mm Nominal opening; U.S. Standard No. 12; 10 Tyler Equivalent

### Fisherbrand U.S. Standard Brass and Stainless-Steel Test Sieve Covers



**04-887A** - Ea./\$39.24  
Sieves, Covers; Fisherbrand; For 8 in. dia. sieves; Stainless steel

### Fisherbrand U.S. Standard Brass and Stainless-Steel Test Sieve Receivers

**04-887B** - Ea./\$48.93  
Receiver, Sieves; Test; Stainless Steel; Fisherbrand; 8 in. dia. sieves; 2 in. depth pan

## Spill Control Kits

### Fisherbrand Acid Spill Clean-Up Kits



**18-061A** - Ea./\$391.04  
Kit, Clean-Up; Acid Spill; Fisherbrand; One-time use; Sorbing Capacity: 1/4 gal.; 19 L x 7-1/2 W x 11 in. H; Neutralizes and absorbs; Packaged in durable, water-resistant case carton w/ instructions and pictograms inside lid

### Fisherbrand Caustic Spill Clean-Up Kits



**18-061C** - Ea./\$438.32  
Kit, Clean-Up; Caustic Spill; Fisherbrand; One-time use; Sorbing Capacity: 1/4 gal.; 19 L x 7-1/2 W x 11 in. H

### Fisherbrand Flammable-Solvent Clean-Up Kits

**18-061B** - Ea./\$426.61  
Kit, Clean-Up; Flammable-Solvent; Fisherbrand; One-time use; Sorbing Capacity: 1 gal.; 19 L x 7-1/2 W x 11 in. H

## Tongs

### Fisherbrand Flask Tongs



**10-062** - Ea./\$37.40, Cs. of 12/\$383.57  
Tongs, Flask; Fisherbrand; Stainless Steel; For Erlenmeyer or Florence flasks taking the number 4 or 8 stopper  
**Suggested for ASTM Method: D381**

### Fisherbrand Economical Crucible Tongs



**15-193** - Ea./\$40.52  
Tongs Economical Crucible Stainless Steel 9 in L, Fisherbrand  
**Suggested for ASTM Method: D874**

### Fisherbrand Stainless-Steel Crucible Tongs



**15-186** - Ea./\$44.11, Cs. of 12/\$443.38  
Tong, Crucible; Fisherbrand; Stainless Steel; Tapered/Serrated Tips with Precision Closure; 9 in L  
**Suggested for ASTM Method: D381**

### Bel Art Scienceware Hot Hand Protector



**11-394-300** - Ea./\$26.25, Cs. of 24/\$586.10  
Tongs; Hot-Hand; Hand protector with pockets for thumb and fingers; Silicone rubber; -57 deg. C to 260 deg. C; Gripping surface studded; Tabs for hanging; One size

## Traffic Safety Tapes

### Harris Industries Barricade Tapes



**19-019-948** - Ea./\$24.20, Cs. of 12/\$248.03  
Tape, Barricade; Yellow; Message: CAUTION; 3 in. x 1000 ft.

## Chemicals

### Acids

#### Acetic Acid, Glacial (HPLC), Fisher Chemical

**A35-500** - Ea./\$75.41, Cs. of 6/\$273.33  
Acetic Acid, Glacial; HPLC; Fisher Chemical; 500mL; Glass; Methanecarboxylic Acid; F.W. 60.05; C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>; CH<sub>3</sub>COOH; CAS: (64-19-7)  
**Suggested for ASTM Method: E203**

#### Hydrochloric Acid (Certified ACS Plus), Fisher Chemical

**A144S-500** - Ea./\$68.65, Cs. of 6/\$247.20  
Hydrochloric Acid, Certified ACS Plus, Fisher Chemical; 500mL; Glass/Safe-Cote; HCl, CAS: 7647-01-0

**A144-212** - Ea./\$72.90  
Glass; 2.5L  
**Suggested for several ASTM Methods.**

**A144C-212** - Cs. of 6/\$270.49  
Glass; 2.5L; Case of 6

**A144-612GAL** - Ea./\$466.22  
Glass Carboy; 6.5 gal.

#### Lactic Acid (85% w/w/Certified ACS), Fisher Chemical

**A162-500** - Ea./\$134.86, Cs. of 6/\$647.09  
Lactic Acid; 85% w/w; Certified ACS, Fisher Chemical; 500mL; Amber Glass; 2-Hydroxypropanoic Acid; F.W. 90.08; C<sub>3</sub>H<sub>6</sub>O<sub>3</sub> CH<sub>3</sub>CH(OH)COOH; CAS: 50-21-5

#### Nitric Acid (Certified ACS Plus), Fisher Chemical

**A200-500** - Ea./\$73.12, Cs. of 6/\$263.47  
Nitric Acid; Certified ACS Plus; Aqua Fortis; 500mL; Glass; F.W. 63.01; HNO<sub>3</sub>; CAS: 7697-37-2  
**Suggested for ASTM Methods: D1688, D512**

**A200-212** - Ea./\$91.56  
Glass; 2.5L  
**Suggested for ASTM Methods: D1688, D512**

**A200-612GAL** - Ea./\$397.52  
Glass Carboy; 6.5 gal.  
**Suggested for ASTM Methods: D1688, D512**

#### Nitric Acid (42 degrees Be/Technical), Fisher Chemical

**A198C-212** - Cs. of 6/\$227.94  
Nitric Acid; 42degree Be/Technical; 2.5L; Glass; F.W. 63.01; HNO<sub>3</sub>; CAS: 7697-37-2  
**Suggested for ASTM Methods: D1688, D512**

### Nitric Acid, Reagent ACS, Acros Organics

**AC42400-0250** - Ea./\$30.10

Nitric Acid, Reagent ACS; 25mL; Glass Bottle; F.W. 63.01; HNO<sub>3</sub>; CAS: 7697-37-2

**Suggested for ASTM Methods: D1688, D512**

**AC42400-5000** - Ea./\$51.90, Cs. of 6/\$263.49  
Glass Bottle; 500mL

**Suggested for ASTM Methods: D1688, D512**

**AC42400-0025** - Ea./\$70.10, Cs. of 4/\$237.30  
Glass Bottle; 2.5L

**Suggested for ASTM Methods: D1688, D512**

### Sulfuric acid, reagent ACS, Acros Organics

**AC42452-5000** - Ea./\$42.11, Cs. of 6/\$253.20

Sulfuric acid; 500mL; F.W. 98.07; H<sub>2</sub>O<sub>4</sub>S; M.P. 10 deg. C; B.P. 290 (760mmHg); Primary CAS: 7664-93-9

**Suggested for ASTM Method: D874**

### Sulfuric Acid (Certified ACS Plus), Fisher Chemical

**A300C-212** - Cs. of 6/\$320.81

Sulfuric Acid; Certified ACS Plus; Fisher Chemical; 2.5L; Glass; Oil of Vitriol; F.W. 98.08; H<sub>2</sub>SO<sub>4</sub>; CAS: 7664-93-9

**Suggested for ASTM Method: D874**

**A300S-212** - Cs. of 6/\$349.46

Flint Glass/Safe-Cote; 6 x 2.5 L

**Suggested for ASTM Method: D6423**

**A300-212** - Ea./\$93.60

Glass; 2.5L; Each

**Suggested for ASTM Method: D6423**

**A300SI-212** - Ea./\$103.70

Glass/Safe-Cote Individual; 2.5L

**Suggested for ASTM Method: D874**

**A300-612GAL** - Ea./\$465.10

Glass Carboy; 6.5 gal.

**Suggested for ASTM Method: D6423**

### Sulfuric Acid (Technical), Fisher Chemical

**A298-212** - Ea./\$62.80, Cs. of 6/\$226.08

Sulfuric Acid, Technical; Fisher Chemical; 2.5L; Glass; Oil of Vitriol; F.W. 98.08; H<sub>2</sub>SO<sub>4</sub> CAS: 7664-93-9

**Suggested for ASTM Method: D6423**

## Buffers

### Buffer Solution, pH 2.00 (Certified), Fisher Chemical

**SB96-1** - Ea./\$55.52, Cs. of 6/\$264.54

Buffer Solution, pH 2.00; Certified; 1L; Poly Bottle; Fisher Chemical; CAS: 7447-40-7

### Buffer Solution, pH 4.00, Color-Coded Red (Certified), Fisher Chemical

**SB101-20** - Ea./\$199.79

Buffer Solution, pH 4.00, Color-Coded Red; Certified; Fisher Chemical; 20L; PolyPac; 877-24-7 (Potassium hydrogen phthalate), 50-00-0 (Formaldehyde), 67-56-1 (Methyl alcohol), 16423-68-0 (Red #3)

**Suggested for ASTM Methods: D6423, D664**

### Buffer Solution, pH 7.00, Color-Coded Yellow (Certified), Fisher Chemical

**SB107-20** - Ea./\$196.12

Buffer Solution, pH 7.00 Color-coded Yellow; Certified; Fisher Chemical; 20L; CAS: 7778-77-0 (Potassium phosphate monobasic), 1310-73-2 (Sodium hydroxide), 1934-21-0 (FD and C Yellow 5)

**Suggested for ASTM Methods: D6423, D664**

### Buffer Solution, pH 10.00, Color-Coded Blue (Certified), Fisher Chemical

**SB115-4** - Ea./\$104.41, Cs. of 4/\$342.77

Buffer Solution, pH 10.00 Color-coded Blue; Certified; Fisher Chemical; 4L; CAS: 6381-92-6

## Caustics

### Potassium Hydroxide Solution, 0.1N (In Isopropanol/Certified), Fisher Chemical

**ST110-500** - Ea./\$57.15, Cs. of 6/\$273.67

Potassium Hydroxide Solution, 0.1N in Isopropanol; Certified; Fisher Chemical; 500mL; Amber Glass; CAS: 1310-58-3(Potassium Hydroxide), 67-63-0 (Isopropanol)

**Suggested for ASTM Method: D664**

### Potassium Hydroxide (Pellets/Certified ACS), Fisher Chemical

**P250-500** - Ea./\$76.16, Cs. of 6/\$357.27

Potassium Hydroxide; Certified ACS; Pellets; Fisher Chemical; 500g; Poly Bottle; Lye; F.W. 56.11; KOH; CAS: 1310-58-3

**Suggested for ASTM Method: D664**

### Potassium hydroxide, 0.1N solution in methanol, Acros Organics

**AC61115-0010** - Ea./\$33.36

Potassium Hydroxide, 0.1N Solution in Methanol; Acros Organics; 1L; F.W. 56.11; KOH; CAS: 1310-58-3

**Suggested for ASTM Method: D664**

### Potassium hydroxide, Reagent ACS, pellets 85%, Acros Organics

**AC42414-0025** - Ea./\$76.37

Potassium Hydroxide; Reagent ACS; 85%; Pellets; Acros Organics; 2.5kg; F.W. 56.11; KOH; CAS: 1310-58-3

**Suggested for ASTM Method: D664**

**AC42414-0250** - Ea./\$13.40

25g

**Suggested for ASTM Method: D664**

**AC42414-5000** - Ea./\$25.09

500g

**Suggested for ASTM Method: D664**

### Sodium Hydroxide Solution (0.25N (N/4)/Certified), Fisher Chemical

**SS272-1** - Ea./\$52.13, Cs. of 6/\$251.44

Sodium Hydroxide Solution, 0.25N; Certified; Fisher Chemical; 1L; Poly Bottle; Caustic Soda Solution; CAS: 1310-73-2

**Suggested for ASTM Method: D1688**

**SS272-20** - Ea./\$231.57

PolyPac; 20L

**Suggested for ASTM Method: D1688**

### Sodium Hydroxide (Pellets/Certified ACS), Fisher Chemical

**S318-500** - Ea./\$75.46, Cs. of 6/\$348.48

Sodium Hydroxide; Certified ACS; Pellets; Fisher Chemical; 500g; Poly Bottle; Caustic Soda; F.W. 40.00; NaOH; CAS: 1310-73-2

**Suggested for ASTM Method: D6423**

### Sodium Hydroxide (Pellets/NF/FCC), Fisher Chemical

**S320-1** - Ea./\$120.91, Cs. of 6/\$567.15

Sodium Hydroxide; NF/FCC; Pellets; Fisher Chemical; 1kg; Poly Bottle; Lye; F.W. 40.00; NaOH; CAS: (1310-73-2)

**Suggested for ASTM Method: D6423**

**S320-10** - Ea./\$384.46

Poly Pail; 10kg

**Suggested for ASTM Method: D6423**

## Desiccants and Drying Agents

### Calcium Chloride Anhydrous (Pellets, 4-20 Mesh, for Desiccators), Fisher Chemical

**C614-500** - Ea./\$124.49, Cs. of 6/\$556.55

Calcium Chloride, Anhydrous; Pellets, 4-20 mesh; For Desiccators; Fisher Chemical; 500g; Poly Bottle; F.W. 110.99; CaCl<sub>2</sub>; CAS: 10043-52-4

**Suggested for ASTM Method: D2500**

### Calcium Chloride (Desiccant, 20 Mesh and Finer/Certified), Fisher Chemical

**C77-500** - Ea./\$219.32, Cs. of 6/\$1,028.83  
 Calcium Chloride; Desiccant; Certified; 20 mesh and finer; Fisher Chemical; 500g; Poly Bottle; F.W. 110.99; CaCl<sub>2</sub>; CAS: 10043-52-4  
**Suggested for ASTM Method: D1160**

### Drierite Absorbents, WA Hammond

**07-578-4B** - Ea./\$73.38, Cs. of 4/\$259.75  
 Drierite Absorbent, Indicating; 10-20 Mesh; WA Hammond; 5 lb.

### Silica Gel, Grade 47 (10-18 Mesh/Certified ACS), Fisher Chemical

**S161-10** - Ea./\$611.95  
 Silica Gel Tel-Tale Desiccant, Indicating; 10-18 Mesh; Certified ACS; Fisher Chemical; 10kg; Poly Pail; CAS: 112926-00-8  
**Suggested for ASTM Method: E203**

## Dyes and Stains and Indicators

### Bromophenol Blue, Sodium Salt, ACS Reagent Grade, Ricca Chemical

**RDCB070010F** - Ea./\$35.93  
 Bromophenol Blue; Sodium Salt; ACS Reagent Grade; 10g Pouch; C19H9Br4NaO5S; CAS: 62625-28-9  
**Suggested for ASTM Method: D1688**

### Phenolphthalein Solution, Alcoholic 0.5%, Fisher Chemical

**SP50-1** - Ea./\$76.76, Cs. of 6/\$364.08  
 Phenolphthalein Solution, 0.5%, Fisher Chemical; 1L; Amber Glass  
**Suggested for ASTM Methods: D1613, D512**


## Immunoreagents

### Renouvelle Corporation Mycomonitor

**50-809-104** - Ea./\$321.43  
 Mycomonitor, Food Safety Assays; Elisa Test Kits; Aflatoxin M1; 96-strip micro-well plate based assay; Results in 30 minutes; One year stability reproducibility of results

## Inorganics

### Calcium Chloride, anhydrous powder 96%, Acros Organics

 **AC34961-0250** - Ea./\$16.00  
 Calcium Chloride, Anhydrous Powder 96%; Acros Organics; 25g; Plastic Bottle; F.W. 110.99; CaCl<sub>2</sub>; CAS: 10043-52-4  
**Suggested for ASTM Method: D1160**  
**AC34961-5000** - Ea./\$79.30  
 500g  
**Suggested for ASTM Method: D1160**

### Cobalt Chloride Hexahydrate ACS Ricca Chemical

**RDC0660500** - Ea./\$154.03  
 Cobalt Chloride Hexahydrate; Certified ACS; Ricca Chemical; 500g; Poly white WM; Cobalt(II) Chloride Hexahydrate; CoCl<sub>2</sub>(6H<sub>2</sub>O); CAS: 7791-13-1  
**Suggested for ASTM Method: D1209**

### Iodine (Resublimed Crystals/USP), Fisher Chemical

**I35-100** - Ea./\$159.53, Cs. of 6/\$714.96  
 Iodine; USP; Assay: 99.8-100.5%; Resublimed Crystals; Fisher Chemical; 100g; Amber Glass; I<sub>2</sub>; CAS: (7553-56-2)


### Lithium Chloride (Certified), Fisher Chemical

**L121-100** - Ea./\$87.79, Cs. of 6/\$394.39  
 Lithium Chloride, Certified, Fisher Chemical; 100g; Poly Bottle; F.W. 42.39; LiCl; CAS: (7447-41-8)  
**Suggested for ASTM Method: D664**

### Lithium Chloride (Laboratory), Fisher Chemical

**L120-500** - Ea./\$174.62, Cs. of 6/\$819.11  
 Lithium Chloride, Laboratory; 500g; Poly Bottle; F.W. 42.39; LiCl; CAS: 7447-41-8  
**Suggested for ASTM Method: D664**

### Lithium chloride, reagent ACS, crystals 99%, Acros Organics

 **AC41327-0050** - Ea./\$22.90  
 Lithium Chloride, Reagent ACS, Crystals 99%; Acros Organics; 5g; F.W. 42.38; LiCl; CAS: 7447-41-8  
**Suggested for ASTM Method: D664**  
**AC41327-5000** - Ea./\$94.70, Cs. of 6/\$480.93  
 500g  
**Suggested for ASTM Method: D664**

### Mercuric Nitrate Monohydrate (Cryst./Certified ACS), Fisher Chemical

**M168-100** - Ea./\$226.41, Cs. of 6/\$1,018.80  
 Mercury (II) Nitrate Monohydrate; Certified ACS, Crystalline; Fisher Chemical; 100g; Amber Glass; Mercuric Nitrate; F.W. 342.62; Hg(NO<sub>3</sub>)<sub>2</sub>.H<sub>2</sub>O; CAS: 7783-34-8

### Nickel Chloride Hexahydrate (Cryst./Certified), Fisher Chemical

**N54-500** - Ea./\$244.52, Cs. of 6/\$990.55  
 Nickel (II) Chloride Hexahydrate; Certified; Crystalline; 500g; Amber Glass; Nickelous Chloride; F.W. 237.71; NiCl<sub>2</sub>.6H<sub>2</sub>O; CAS: 7791-20-0

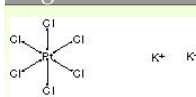
### Potassium Iodide (Granular, Free Flowing/Certified ACS), Fisher Chemical

**P410-500** - Ea./\$253.43, Cs. of 6/\$1,168.91  
 Potassium Iodide; Certified ACS; Granular, Free Flowing; Fisher Chemical; 500g; Poly Bottle; F.W. 166.01; KI; CAS: 7681-11-0

### Potassium Chlorate (Cryst./Certified ACS), Fisher Chemical

**P212-500** - Ea./\$133.25, Cs. of 6/\$600.28  
 Potassium Chlorate; Certified ACS; Crystalline; Fisher Chemical; 500g; Amber Glass; Berthollet's Salt; F.W. 122.55; KClO<sub>3</sub>; CAS: 3811-04-9  
**Suggested for ASTM Method: D664**

### Potassium hexachloroplatinate(IV) ca. 40% Pt, Acros Organics

 **AC19535-0050** - Ea./\$268.84  
 Potassium Hexachloroplatinate(IV) ca 40% Pt; 5g; Glass Bottle; Potassium chloroplatinate; F.W. 486.01; Cl<sub>6</sub>K<sub>2</sub>Pt; K<sub>2</sub>PtCl<sub>6</sub>; CAS: 16921-30-5  
**Suggested for ASTM Method: D1209**

### Silver Nitrate (Cryst./Certified ACS), Fisher Chemical

**S181-500** - Ea./\$2,476.45, Cs. of 6/\$11,422.71  
 Silver Nitrate; Certified ACS; Crystalline; Fisher Chemical; 500g; Amber Glass; F.W. 169.87; AgNO<sub>3</sub>; CAS: 7761-88-8  
**Suggested for ASTM Method: D512**

### Sodium Chloride (Cryst./Certified ACS), Fisher Chemical

**S271-500** - Ea./\$45.62, Cs. of 6/\$221.67  
 Sodium Chloride; Certified ACS; Crystalline; Fisher Chemical; 500g; Poly Bottle; Salt; F.W. 58.44; NaCl; CAS: 7647-14-5  
**S271-1** - Ea./\$57.11, Cs. of 6/\$266.68  
 Poly Bottle; 1kg  
**Suggested for ASTM Method: D512**  
**S271-3** - Ea./\$136.09, Cs. of 4/\$420.52  
 Poly Bottle; 3kg  
**Suggested for ASTM Method: D512**

### Sodium Chloride (Cryst./USP/FCC/EP/BP), Fisher Chemical

**S641-500** - Ea./\$57.26, Cs. of 6/\$253.17  
 Sodium Chloride; USP/FCC/EP/BP; Crystalline; Fisher Chemical; 500g; Poly Bottle; Salt; F.W. 58.44; NaCl; CAS: 7647-14-5  
**Suggested for ASTM Method: D2500**

## Sodium chloride, reagent ACS, crystals 99+%, Acros Organics

AC42429-5000 - Ea./\$28.97, Cs. of 6/\$174.00

Sodium Chloride, Reagent ACS, Crystals 99+%; 500g; Plastic Bottle; F.W. 58.44; NaCl; CAS: 7647-14-5

**Suggested for ASTM Method: D512**

AC42429-0010 - Ea./\$53.37

Plastic Bottle; 1kg

**Suggested for ASTM Method: D512**

## Sodium Phosphate Monobasic Monohydrate (Cryst./Certified ACS), Fisher Chemical

S369-500 - Ea./\$164.60, Cs. of 6/\$772.19

Sodium Phosphate Monobasic Monohydrate Certified ACS, Crystalline; Fisher Chemical; 500g; Poly Bottle; Monosodium Orthophosphate; F.W. 137.99; NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O; CAS: 10049-21-5

## Sodium Sulfate Anhydrous (Granular, 10-60 Mesh/Certified ACS), Fisher Chemical

S415-500 - Ea./\$57.20, Cs. of 6/\$268.30

Sodium sulfate Anhydrous; Certified ACS; Granular, 10-60 Mesh; Fisher Chemical; 500g; Amber Glass; F.W. 142.04; Na<sub>2</sub>SO<sub>4</sub> CAS: 7757-82-6**Suggested for ASTM Method: D2500**

## Sodium sulfate, granular, anhydrous, reagent ACS, Acros Organics

AC35425-0010 - Ea./\$45.30

Sodium sulfate, Granular, Anhydrous, Reagent ACS; 1kg; Plastic Bottle; F.W. 142.04; Na<sub>2</sub>SO<sub>4</sub>; CAS: 7757-82-6**Suggested for ASTM Method: D2500**

## Sodium sulfate, reagent ACS, anhydrous, Acros Organics

AC42441-0050 - Ea./\$31.67

Sodium sulfate, Reagent ACS, Anhydrous; 5g; F.W. 142.04; Na<sub>2</sub>SO<sub>4</sub>; CAS: 7757-82-6**Suggested for ASTM Method: D2500**

AC42441-0010 - Ea./\$64.24, Cs. of 6/\$387.00

Plastic Bottle; 1kg

**Suggested for ASTM Method: D2500**

## Karl Fischer Reagents

## Karl Fischer Reagent (Stabilized), Fisher Chemical

SK3-1 - Ea./\$288.49, Cs. of 6/\$1,272.94

Karl Fischer Reagent (Stabilized); 1L; Amber Glass; Ready to use for moisture determination by electrometric titration; Minimum 6.0mg H<sub>2</sub>O/mL; for lower titer, dilute with SK5 Karl Fischer Diluent CAS: 109-86-4 (2-Methoxyethanol)**Suggested for ASTM Method: E203**

SK3-4 - Ea./\$626.26, Cs. of 4/\$1,868.82

Amber Glass; 4L

**Suggested for ASTM Method: E203**

## Aqualine Sodium Tartrate Dihydrate Water Standard, Fisher Chemical

AL-2770100 - Ea./\$58.67, Cs. of 6/\$293.19

Aqualine Sodium Tartrate Dihydrate Water Standard, Fisher Chemical; 100g; Poly Bottle; CAS: 6106-24-7 (Sodium Tartrate Dihydrate)

**Suggested for ASTM Method: E203**

## AquaStar Composite 2K (Original Formulation), EMD Chemicals

MAX1698E6 - Ea./\$170.89

AquaStar Composite 2K; EMD Chemicals; 1L; Poly-coated Amber Glass; Reagent for Volumetric Karl Fischer Titrations; For titrimetric moisture determination; Titer 2mg H<sub>2</sub>O/mL; Free of pyridine**Suggested for ASTM Method: E203**

## AquaStar Composite 5, EMD Chemicals

MAX1698A6 - Ea./\$174.04, Cs. of 6/\$789.97

AquaStar Composite 5; EMD Chemicals; 1L; Poly-coated Amber Glass

**Suggested for ASTM Method: E1064**

MAX1698A3 - Ea./\$269.97, Cs. of 4/\$816.30

Poly-coated Amber Glass; 2 L

**Suggested for ASTM Method: E1064**

MAX1698A5 - Ea./\$400.00, Cs. of 4/\$1,316.66

Poly-coated Amber Glass; 4L

**Suggested for ASTM Method: E1064**

## Kjeldahl Reagents

## Kjel-Sorb Solution (Certified), Fisher Chemical

SK15-20 - Ea./\$158.59

Kjel-Sorb Solution, Certified; 20L; PolyPac; Saturated Boric Acid Solution with indicator for use in Kjeldahl determinations

## Life Science Reagents

## Molecular Weight Markers; Fisher BioReagents

BP2550100 - Ea./\$328.90

Molecular Weight Markers; Fisher BioReagents; Marker: DNA Ladder; Range: 50 to 500 bp; Format: Liquid; Quantity: 200ug; For precise sizing of DNA fragments

BP255525 - Ea./\$151.86

Marker: lambda DNA/Hind III/PhiX-174 RF DNA-Hae III Digest; Range: 72 to 23,130 bp; Format: Liquid; 25ug

BP2553100 - Ea./\$166.08

Marker: Kilobase DNA Marker (500 bp to 10.0kb); Format: Liquid; 50ug

## Metals

## Lead (Granular/Certified ACS), Fisher Chemical

L246-500 - Ea./\$143.68, Cs. of 6/\$639.04

Lead; Certified ACS; Granular; Fisher Chemical; 500g; Amber Glass; Pb; CAS: 7439-92-1

**Suggested for ASTM Method: D1160**

## Molecular Sieves

## Molecular Sieves, Grade 514 (Type 4A; 8-12 Mesh Beads), Fisher Chemical

M514-500 - Ea./\$120.01, Cs. of 6/\$556.25

Molecular Sieves, Grade 514 (Type 4A; 8-12 mesh Beads); Aluminum Sodium Silicate; 500g; Amber Glass; CAS: (1344-00-9 (Aluminum Oxide))

**Suggested for ASTM Method: D664**

## Molecular Sieves, 4A, powder &lt;50 micron, Acros Organics

AC21480-0250 - Ea./\$23.50

Molecular Sieves, 4A, Powder &lt;50 micron; Acros Organics; 25g; CAS: (70955-01-0)

**Suggested for ASTM Method: D664**

## Organics

## Benzene (Petroleum Naphtha), Fisher Chemical

B264-20 - Ea./\$323.37

Benzene (Petroleum Naphtha); Naphtha; 20L; Steel Pail; CAS: (64742-89-8)

**Suggested for ASTM Method: D2500**

## n-Butyl sulfide 99%, Acros Organics



AC10801-0050 - Ea./\$24.40

n-Butyl sulfide 99%; 5mL; Glass Bottle; Di-n-butyl sulfide; F.W. 146.29; C<sub>8</sub>H<sub>18</sub>S; [CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>]<sub>2</sub>S; CAS: 544-40-1**Suggested for ASTM Method: D5453**

AC10801-1000 - Ea./\$35.40

100mL

**Suggested for ASTM Method: D5453**

## Cyclohexane 99%, Acros Organics

AC11111-0100 - Ea./\$112.42

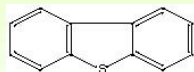
Cyclohexane 99+%; pure; 10L; Glass Bottle; F.W. 84.15; C<sub>6</sub>H<sub>12</sub>; CAS: 110-82-7**Suggested for ASTM Method: D1160**

### Dextrose (D-Glucose) Anhydrous (Granular Powder/Certified ACS), Fisher Chemical

**D16-500** - Ea./\$70.22, Cs. of 6/\$329.45

Dextrose (D-Glucose) Anhydrous; Certified ACS, Granular Powder; Fisher Chemical; 500g; Amber Glass; Sugar Starch; F.W. 180.16; C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>; CH<sub>2</sub>OH(CHOH)<sub>4</sub>CHO; CAS: 50-99-7

### Dibenzothiophene 99%, Acros Organics



**AC11254-0250** - Ea./\$49.71

Dibenzothiophene 99%; 25g; Plastic Bottle; F.W. 184.26; C<sub>12</sub>H<sub>8</sub>S; CAS: 132-65-0

**Suggested for ASTM Method: D5453**

**AC11254-1000** - Ea./\$166.78

Plastic Bottle; 100g

**Suggested for ASTM Method: D5453**

### 1,5-Diphenylcarbazone (Certified ACS), Fisher Chemical

**D86-10** - Ea./\$143.03, Cs. of 6/\$639.43

1,5-Diphenylcarbazone, Certified ACS; Fisher Chemical; 10g; Amber Glass; s-Diphenylcarbazone; F.W. 240.27; C<sub>13</sub>H<sub>12</sub>N<sub>4</sub>O; C<sub>6</sub>H<sub>5</sub>N:NCONHNHC<sub>6</sub>H<sub>5</sub>; CAS: 538-62-5

### Ethylene Glycol Monomethyl Ether (Certified), Fisher Chemical

**E182-4** - Ea./\$257.71, Cs. of 4/\$805.50

Ethylene Glycol Monomethyl Ether; Certified, Fisher Chemical; 4L; Amber Glass; 2-Methoxyethanol; F.W. 76.10; C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>; HOCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>; CAS: 109-86-4

**Suggested for ASTM Method: E203**

**E182-20** - Ea./\$656.13

Steel Pail; 20L

**Suggested for ASTM Method: E203**

### Glycerin ACS Reagent Grade Ricca Chemical

**RSOG00204A** - Ea./\$50.08

Glycerin; ACS Reagent Grade; Ricca Chemical; 4L; Poly natural; bp: 544 - decomposes; mp: 18; CAS: 56-81-5 (Glycerin (Glycerol))

**Suggested for ASTM Method: D6584**

### Glycerine trioleate, Acros Organics

**AC36812-0010** - Ea./\$56.18

Glycerine trioleate; 99%; 1mL; Glass Bottle; 1,2,3-Tri(cis-9-octadecenyl)glycerol; F.W. 885.45; C<sub>57</sub>H<sub>104</sub>O<sub>6</sub>; CAS: 122-32-7

**Suggested for ASTM Method: D6584**

### Glycerol (Certified ACS), Fisher Chemical

**G33-500** - Ea./\$114.75, Cs. of 6/\$575.85

Glycerol, Certified ACS; Fisher Chemical; Glycerin; 500mL; Amber Glass; F.W. 92.10; C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>; HOCH<sub>2</sub>CH(OH)CH<sub>2</sub>OH; CAS: (56-81-5)

### Glycerol (Clear, Colorless/USP/FCC), Fisher Chemical

**G31-500** - Ea./\$154.23, Cs. of 6/\$693.18

Glycerol, USP/FCC, Clear, Colorless, Fisher Chemical; 500mL; Amber Glass; Glycerin; F.W. 92.09; C<sub>3</sub>H<sub>8</sub>O<sub>3</sub> HOCH<sub>2</sub>CH(OH)CH<sub>2</sub>OH; CAS: 56-81-5

**Suggested for ASTM Method: D6584**

**G31-1** - Ea./\$233.23, Cs. of 6/\$1,048.11

Amber Glass; 1L

**Suggested for ASTM Method: D6584**

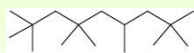
### Glycerol (Clear, Colorless/USP/FCC/EP/BP), Fisher Chemical

**G30-4** - Ea./\$741.44, Cs. of 4/\$2,170.14

Glycerol; USP/FCC/EP/BP; Clear, Colorless; 4L; Amber Glass; Glycerin; F.W. 92.05; C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>; CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH; CAS: 56-81-5

**Suggested for ASTM Method: D6584**

### 2,2,4,4,6,8,8-Heptamethylnonane 98%, Acros Organics



**AC15625-0500** - Ea./\$36.12

2,2,4,4,6,8,8-Heptamethylnonane 98%; Acros Organic; 50mL; Glass Bottle; HMN; F.W. 226.44; C<sub>16</sub>H<sub>34</sub>; (CH<sub>3</sub>)<sub>3</sub>CCH<sub>2</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>; CAS: 4390-04-9

**Suggested for ASTM Method: D613**

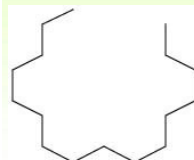
### n-Heptane, 99+%, Acros Organics

**AC12034-0250** - Ea./\$29.68

n-Heptane, 99+%; Acros Organics; 25mL; Glass Bottle; F.W. 100.20; C<sub>7</sub>H<sub>16</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>; CAS: 142-82-5

**Suggested for ASTM Method: D6584**

### n-Hexadecane 99%, Acros Organics



**AC12046-1000** - Ea./\$46.50

n-Hexadecane 99%; Acros Organics; 100mL; Glass Bottle; F.W. 226.44; C<sub>16</sub>H<sub>34</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>3</sub>; CAS: 544-76-3

**Suggested for ASTM Method: D1160**

**AC12046-5000** - Ea./\$98.80

500mL

**Suggested for ASTM Method: D613**

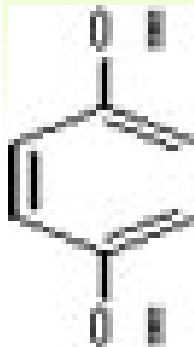
### Hydroquinone (Cryst./Laboratory), Fisher Chemical

**H329-500** - Ea./\$84.28, Cs. of 6/\$395.36

Hydroquinone; Laboratory; Crystalline; 500g; Amber Glass; 1,4-Benzenediol; F.W. 110.11; C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>; 1,4-HOC<sub>6</sub>H<sub>4</sub>OH; CAS: 123-31-9

**Suggested for ASTM Method: D512**

### Hydroquinone 99%, Acros Organics



**AC12091-5000** - Ea./\$24.10

Hydroquinone 99%; 1,4-Benzenediol; ACROS Organics; 500g; F.W. 110.11; C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>; CAS: (123-31-9)

**Suggested for ASTM Method: D512**

### Maltose Monohydrate (Powder/Reagent), Fisher Chemical

**M75-100** - Ea./\$77.43, Cs. of 6/\$363.25

Maltose Monohydrate; Reagent; Powder; 100g; Amber Glass; Malt Sugar; F.W. 360.32; C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.H<sub>2</sub>O; CAS: 6363-53-7

### Mineral Oil, Fisher BioReagents

**BP26291** - Ea./\$48.75, Cs. of 6/\$198.82

Mineral Oil; Liquid Petrolatum; Fisher BioReagents; 1L; Poly Bottle; CAS: 8020-83-5

**Suggested for ASTM Method: D4951**

### Mineral oil, Acros Organics

**AC41508-0010** - Ea./\$16.80

Mineral Oil; Paraffin oil; Acros Organics; 1L; Glass Bottle; CAS: 8042-47-5

**Suggested for ASTM Method: D874**

**AC41508-0060** - Ea./\$13.50

Glass Bottle; 6mL

**Suggested for ASTM Method: D874**

### Mineral Oil USP White, Mallinckrodt Baker

**MK-6357-4** - Ea./\$239.96, Cs. of 4/\$827.40

Mineral Oil; Mallinckrodt Baker; 4L; Glass; Primary CAS: (8012-95-1)

**Suggested for ASTM Method: D4951**

### Mineral oil, suitable for nujol mull preparations for IR-spect., Acros Organics

**AC12402-0060** - Ea./\$18.20

Mineral Oil, Suitable for nujol mull Preparations for IR Spec.; Acros Organics; 6mL; Glass Bottle; Paraffin oil; CAS: 8042-47-5

**Suggested for ASTM Method: D874**

## n-Nonane 99%, Acros Organics



**AC12911-0020** - Ea./\$19.50  
n-Nonane 99%; Acros Organics; 2mL; Glass Bottle; F.W. 128.26; C<sub>9</sub>H<sub>20</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>7</sub>CH<sub>3</sub>; CAS: 111-84-2  
**Suggested for ASTM Method: D3606**  
**AC12911-1000** - Ea./\$66.10  
Glass Bottle; 100mL  
**Suggested for ASTM Method: D3606**  
**AC12911-5000** - Ea./\$234.10  
Glass Bottle; 500mL  
**Suggested for ASTM Method: D3606**

## Sodium Potassium Tartrate Tetrahydrate (Cryst./Certified ACS), Fisher Chemical

**S387-500** - Ea./\$203.24, Cs. of 6/\$970.20  
Sodium Potassium Tartrate Tetrahydrate; Certified ACS; Crystalline; Fisher Chemical; 500g; Poly Bottle; Seignette Salt; F.W. 282.23; NaK<sub>4</sub>H<sub>4</sub>O<sub>6</sub>·4H<sub>2</sub>O; CAS: 6381-59-5

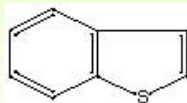
## Sodium Tartrate Dihydrate (Colorless Crystals), Fisher BioReagents

**BP352-500** - Ea./\$86.58, Cs. of 6/\$459.68  
Sodium Tartrate Dihydrate, Colorless Crystals, Fisher BioReagents; 500g; Amber Glass; Disodium Tartrate, Dihydrate; F.W. 230.08; Na<sub>2</sub>C<sub>4</sub>H<sub>4</sub>O<sub>6</sub>·2H<sub>2</sub>O; CAS: 6106-24-7  
**Suggested for ASTM Method: E203**

## Succinic Acid (Cryst./Certified), Fisher Chemical

**A294-500** - Ea./\$135.97, Cs. of 6/\$611.85  
Succinic Acid, Certified, Crystalline; Fisher Chemical; 500g; Amber Glass; Butanedioic Acid; F.W. 118.09; C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>; HOOCCH<sub>2</sub>CH<sub>2</sub>COOH; CAS: 110-15-6

## Thianaphthene 97%, Acros Organics



**AC13862-0250** - Ea./\$80.10  
Thianaphthene 97%; 25g; Glass Bottle; 1-Benzothiophene; F.W. 134.2; C<sub>8</sub>H<sub>6</sub>S; CAS: 95-15-8  
**Suggested for ASTM Method: D5453**

## Polymers

## Dextran (White to Off-white Powder), Fisher BioReagents

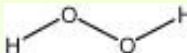
**BP1580-100** - Ea./\$187.94  
Dextran; White to Off-white Powder; Fisher Chemical; 100g; Poly Bottle; M.W. 500,000; CAS: 9004-54-0

## Starch, Soluble (Powder/Certified ACS), Fisher Chemical

**S516-500** - Ea./\$139.80, Cs. of 6/\$655.79  
Starch, Soluble; Certified ACS; Powder; Fisher Chemical; 500g; Amber Glass; (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub> CAS: 9005-25-8

## Solutions for Chemical Testing

## Hydrogen peroxide, 35 wt.% solution in water, stabilized p.a., Acros Organics



**AC20246-5000** - Ea./\$25.80  
Hydrogen Peroxide, 35 wt.% Solution in Water, Stabilized; 500mL; Plastic Bottle; F.W. 34; H<sub>2</sub>O<sub>2</sub>; CAS: 7722-84-1  
**AC20246-0010** - Ea./\$45.20, Cs. of 4/\$153.30  
Plastic Bottle; 1L

## Sodium Thiosulfate Solution (0.1N (N/10)/Certified), Fisher Chemical

**SS368-4** - Ea./\$69.57, Cs. of 4/\$224.92  
Sodium Thiosulfate Solution; 0.1N; Certified, Fisher Chemical; 4L; Poly Bottle; CAS: 7772-98-7

## Solvents

## Acetone (Certified ACS), Fisher Chemical

**A18P-4** - Ea./\$160.96, Cs. of 4/\$489.99  
Acetone; Certified ACS; Fisher Chemical; Pyroacetic Ether, 2-Propanone, Dimethyl Ketone; 4L; Poly Bottle; F.W. 58.08; C<sub>3</sub>H<sub>6</sub>O; CAS: 67-64-1  
**Suggested for ASTM Method: D2500**

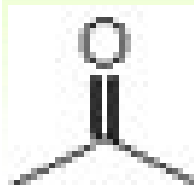
## Acetone (Histological), Fisher Chemical

**A16P-4** - Ea./\$104.74, Cs. of 4/\$321.47  
Acetone (Histological), Fisher Chemical; Pyroacetic Ether; 4L; Poly Bottle; F.W. 58.08; C<sub>3</sub>H<sub>6</sub>O; CH<sub>3</sub>COCH<sub>3</sub>; CAS: 67-64-1  
**Suggested for ASTM Method: D445**

## Acetone (NF/FCC), Fisher Chemical

**A11-4** - Ea./\$205.44, Cs. of 4/\$634.56  
Acetone; NF/FCC, Fisher Chemical; 4L; Amber Glass; Pyroacetic Ether; F.W. 58.08; C<sub>3</sub>H<sub>6</sub>O; CH<sub>3</sub>COCH<sub>3</sub> CAS: 67-64-1  
**Suggested for ASTM Methods: D3606, D4052, D445**  
**A11S-4** - Ea./\$216.97, Cs. of 4/\$646.51  
SafeTin; 4L  
**Suggested for ASTM Methods: D3606, D4052, D445**

## Acetone 99+%, Acros Organics



**AC17717-0010** - Ea./\$27.41, Cs. of 4/\$108.00  
Acetone 99+%; 1L; Glass Bottle; 2-Propanone; F.W. 58.08; C<sub>3</sub>H<sub>6</sub>O; CH<sub>3</sub>COCH<sub>3</sub>; CAS: 67-64-1  
**Suggested for ASTM Methods: D3606, D4052, D445**  
**AC17717-0025** - Ea./\$46.27, Cs. of 4/\$185.60  
Glass Bottle; 2.5L  
**Suggested for ASTM Methods: D3606, D4052, D445**

## Acetonitrile (OPTIMA), Fisher Chemical

**A996-4** - Ea./\$349.14, Cs. of 4/\$982.32  
Acetonitrile; OPTIMA; Fisher 4L; Amber Glass; Chemical; Methyl Cyanide, Ethanitrile; F.W. 41.05; C<sub>2</sub>H<sub>3</sub>N; CAS: 75-05-8

## Chloroform, HPLC grade 99.8%, Acros Organics

**AC61003-0040** - Ea./\$116.95, Cs. of 4/\$458.00  
Chloroform, HPLC Grade 99.8%; 4L; F.W. 119.38; CHCl<sub>3</sub>; CAS: 67-66-3  
**Suggested for ASTM Methods: D1688, D3606, D664**

## Chloroform Reagent ACS grade 99.8%, Acros Organics

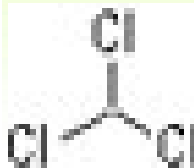
**AC42355-0040** - Ea./\$110.28, Cs. of 4/\$442.80  
Chloroform, Reagent ACS; 99.8%; Stabilized with Ethanol, 4L; Glass Bottle; F.W. 119.38; CHCl<sub>3</sub>; CAS: 67-66-3  
**Suggested for ASTM Methods: D1688, D3606, D664**

## Chloroform, reagent ACS, spectro grade, Acros Organics



**AC40463-5000** - Ea./\$28.87, Cs. of 6/\$173.40  
Chloroform, Spectro Grade; 99.8%; Stabilized with Ethanol; 500mL; Glass Bottle; F.W. 119.38; CHCl<sub>3</sub>; CAS: 67-66-3  
**Suggested for ASTM Methods: D1688, D3606, D664**

## Chloroform, stabilized, spectrophotometric grade 99+%, Acros Organics



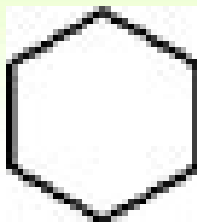
**AC16773-0025** - Ea./\$73.40, Cs. of 4/\$248.51  
Chloroform, Spectrophotometric grade, 99+%; stabilized with amylene; 2.5L; Glass Bottle; CHCl<sub>3</sub>; CAS: 67-66-3  
**Suggested for ASTM Methods: D1688, D3606, D664**

## Cyclohexane (Certified ACS), Fisher Chemical

**C556-4** - Ea./\$240.13, Cs. of 4/\$711.29  
Cyclohexane (Certified ACS), Fisher Chemical; Hexahydrobenzene; 4L; Amber Glass; F.W. 84.16; C<sub>6</sub>H<sub>12</sub>; CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>; CAS: (110-82-7)  
**Suggested for ASTM Method: D1160**



## Cyclohexane 99+%, Acros Organics



**AC11111-0025** - Ea./\$57.10, Cs. of 4/\$193.27  
Cyclohexane 99+%; pure; 2.5L; Glass Bottle; F.W. 84.15;  
C<sub>6</sub>H<sub>12</sub>; CAS: 110-82-7  
**Suggested for ASTM Method: D1160**

## Dimethyl Sulfoxide, Fisher BioReagents

**BP231-1** - Ea./\$82.96, Cs. of 6/\$429.10  
Dimethyl sulfoxide; 1L; Amber Glass; DMSO; F.W. 78.13; C<sub>2</sub>H<sub>6</sub>O<sub>S</sub>; (CH<sub>3</sub>)<sub>2</sub>SO;  
CAS: 67-68-5

## Ethyl Alcohol Denatured (Proprietary Solvent), Fisher Chemical

**A407-4** - Ea./\$118.99, Cs. of 4/\$386.39  
Ethyl Alcohol, Denatured; Proprietary Solvent; Fisher Chemical; 4L; Amber  
Glass; Methyl Hydrate; Formulation: Ethyl Alcohol 100 parts, Ethyl Acetate 4  
part, Methyl iso-Butyl Ketone 1 part, Aviation Gasoline 1 part  
**Suggested for ASTM Method: D2500**

## Ethyl alcohol, absolute, 200 proof, 99.5%, reagent ACS, Acros Organics

**AC61509-0020** - Ea./\$96.26  
Ethanol; absolute; 200 proof; Reagent ACS; 99.5%; 2 L; Ethyl alcohol, F.W.  
46.06; C<sub>2</sub>H<sub>6</sub>O; CAS: 64-17-5

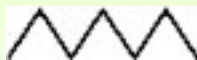
## Heptane (Certified), Fisher Chemical

**O3008-1** - Ea./\$185.16, Cs. of 6/\$829.26  
Heptane; Certified; 1L; Amber Glass; F.W. 100.21; C<sub>7</sub>H<sub>16</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>;  
CAS: 142-82-5 (Heptane, 99.4%)  
**Suggested for ASTM Method: D381**  
**O3008-4** - Ea./\$322.77, Cs. of 4/\$942.00  
Amber Glass; 4L  
**Suggested for ASTM Method: D381**

## Heptane (HPLC), Fisher Chemical

**H350-1** - Ea./\$120.76, Cs. of 6/\$508.70  
Heptane (HPLC), Fisher Chemical; 1L; Amber Glass; F.W. 100.21; C<sub>7</sub>H<sub>16</sub>;  
CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>; CAS: (142-82-5 (Heptane, 99.4%))  
**Suggested for ASTM Method: D5501**  
**H350SK-1** - Ea./\$125.62, Cs. of 6/\$523.68  
Amber Glass/Safe-Cote; 1L  
**Suggested for ASTM Method: D5501**  
**H350-4** - Ea./\$228.65, Cs. of 4/\$648.63  
Amber Glass; 4L  
**Suggested for ASTM Method: D5501**

## n-Heptane 99+%, Acros Organics



**AC12034-0010** - Ea./\$49.50, Cs. of 4/\$167.61  
n-Heptane 99+%, pure, Acros Organics; 1L; Glass Bottle;  
F.W. 100.2; C<sub>7</sub>H<sub>16</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>; CAS: 142-82-5  
**Suggested for ASTM Method: D6584**  
**AC12034-0025** - Ea./\$86.39, Cs. of 4/\$346.80  
Glass Bottle; 2.5L  
**Suggested for ASTM Method: D6584**

## n-Heptane, extra dry, water &lt;30 ppm, Acros Organics

**AC32691-1000** - Ea./\$27.43  
n-Heptane, Extra Dry, Water <30ppm; 100mL; Septum Bottle; F.W. 100.2;  
C<sub>7</sub>H<sub>16</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>; CAS: 142-82-5  
**Suggested for ASTM Method: D6584**

## n-Heptane, extra dry, with molecular sieve, Acros Organics

**AC36436-1000** - Ea./\$25.84  
n-Heptane, Extra Dry, with Molecular Sieve; water <50ppm; 100mL; Septum  
Bottle; F.W. 100.2; C<sub>7</sub>H<sub>16</sub>; CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>; CAS: 142-82-5  
**Suggested for ASTM Method: D6584**  
**AC36436-0010** - Ea./\$50.30  
Septum bottle; 1L  
**Suggested for ASTM Method: D6584**

## Hexanes (HPLC), Fisher Chemical

**H302-4** - Ea./\$146.79, Cs. of 4/\$416.51  
Hexanes; HPLC; Fisher Chemical; 4L; Amber Glass; Naphtha Solvent; F.W.  
86.18; C<sub>6</sub>H<sub>14</sub> CAS: (110-54-3)

## Isooctane (Certified ACS), Fisher Chemical

**O299-1** - Ea./\$326.88, Cs. of 6/\$1,451.67  
Isooctane; Certified ACS; 1L; Amber Glass; 2,2,4-Trimethylpentane; F.W.  
114.23; C<sub>8</sub>H<sub>18</sub>; (CH<sub>3</sub>)<sub>3</sub>CCH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>; CAS: 540-84-1  
**Suggested for ASTM Method: D3606**

## Isooctane (HPLC), Fisher Chemical

**O296-1** - Ea./\$108.52, Cs. of 6/\$461.35  
Isooctane; HPLC, Fisher Chemical; 1L; Amber Glass; 2,2,4-Trimethylpentane;  
F.W. 114.23; C<sub>8</sub>H<sub>18</sub>; CAS: 540-84-1  
**Suggested for ASTM Method: D3606**  
**O296-4** - Ea./\$176.90, Cs. of 4/\$496.76  
Amber Glass; 4L  
**Suggested for ASTM Method: D3606**

## Isooctane (OPTIMA), Fisher Chemical

**O301-4** - Ea./\$254.49, Cs. of 4/\$711.76  
Isooctane (Optima); Octane, Iso-; 4L; Amber Glass; F.W. 114.23; C<sub>8</sub>H<sub>18</sub>;  
(CH<sub>3</sub>)<sub>3</sub>CCH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>; CAS: (540-84-1)  
**Suggested for ASTM Method: D3606**

## Methanol (Certified ACS), Fisher Chemical

**A412-20** - Ea./\$224.84  
Methanol; Certified ACS; Fisher Chemical; 20L; Unlined Steel Pail; Methyl  
Alcohol; F.W. 32.04; CH<sub>4</sub>O; CH<sub>3</sub>OH; CAS: 67-56-1  
**Suggested for ASTM Method: D874**

## Methanol (Low Water), Fisher Chemical

**A935-4** - Ea./\$146.12, Cs. of 4/\$438.36  
Methanol; Low Water; Fisher Chemical; 4L; Amber Glass; Wood Alcohol; F.W.  
32.04; CH<sub>4</sub>O; CH<sub>3</sub>OH; CAS: 67-56-1  
**Suggested for ASTM Methods: D5501, D3606, D664**

## Methanol (NF), Fisher Chemical

**A413-4** - Ea./\$136.70, Cs. of 4/\$497.08  
Methanol (NF), Fisher Chemical; Methyl Alcohol; 4L; Amber Glass; F.W. 32.04;  
CH<sub>4</sub>O; CH<sub>3</sub>OH; CAS: (67-56-1)  
**Suggested for ASTM Method: D2500**

## Methanol (OPTIMA), Fisher Chemical

**A454-4** - Ea./\$121.73, Cs. of 4/\$338.27  
Methanol; Optima; Fisher Chemical; 4L; Amber Glass; Methyl Alcohol; F.W.  
32.04; CH<sub>4</sub>O; CH<sub>3</sub>OH; CAS: 67-56-1

## Methanol (Spectranalyzed), Fisher Chemical

**A408-1** - Ea./\$78.00, Cs. of 6/\$330.75  
Methanol; Spectranalyzed; Fisher Chemical; 1L; Amber Glass; Methyl Alcohol;  
F.W. 32.04; CH<sub>4</sub>O; CH<sub>3</sub>OH; CAS: 67-56-1  
**Suggested for ASTM Method: E203**  
**A408-4** - Ea./\$155.19, Cs. of 4/\$492.63  
Amber Glass; 4L  
**Suggested for ASTM Method: E203**  
**A408SK-4** - Ea./\$173.62, Cs. of 4/\$551.32  
Amber Glass/Safe-Cote; 4L  
**Suggested for ASTM Method: E203**

## Methyl Ethyl Ketone (Technical), Fisher Chemical

**M208-4** - Ea./\$197.15, Cs. of 4/\$590.72  
Methyl Ethyl Ketone; Technical; 4L; Amber Glass; 2-Butanone; F.W. 72.11;  
C<sub>4</sub>H<sub>8</sub>O; CH<sub>3</sub>COC<sub>2</sub>H<sub>5</sub>; CAS: 78-93-3  
**Suggested for ASTM Method: D3606**

## Methylene Chloride (OPTIMA), Fisher Chemical

**D151-1** - Ea./\$98.60, Cs. of 6/\$367.66  
Methylene Chloride (Optima), Fisher Chemical; Dichloromethane; 1L; Amber  
Glass; F.W. 84.93; CH<sub>2</sub>Cl<sub>2</sub>; CAS: (75-09-2)  
**Suggested for ASTM Method: D3606**

Methylene Chloride (With Cyclohexene Preservative/HPLC), Fisher Chemical

**D138-1** - Ea./\$78.88, Cs. of 6/\$305.98  
Methylene Chloride; HPLC; with Cyclohexene Preservative; 1L; Amber Glass; Dichloromethane; F.W. 84.93; CH<sub>2</sub>Cl<sub>2</sub>; CAS: 75-09-2  
**Suggested for ASTM Method: D3606**  
**D138-4** - Ea./\$144.86, Cs. of 4/\$374.52  
Amber Glass; 4L  
**Suggested for ASTM Method: D3606**

Petroleum Ether (Certified ACS), Fisher Chemical

**E139-4** - Ea./\$139.71, Cs. of 4/\$434.23  
Petroleum Ether; Certified ACS, Fisher Chemical; 4L; Amber Glass; Ligroine, B.P. 35 deg. C-60 deg. C; CAS: 68476-50-6

2-Propanol (Certified ACS), Fisher Chemical

**A416-1** - Ea./\$68.31, Cs. of 6/\$307.38  
Isopropanol; Certified ACS, Fisher Chemical; 1L; Amber Glass; 2-Propanol; F.W. 60.10; C<sub>3</sub>H<sub>8</sub>O; (CH<sub>3</sub>)<sub>2</sub>CHOH; CAS: 67-63-0  
**Suggested for ASTM Method: D874**

2-Propanol (Low Water), Fisher Chemical

**A520-4** - Ea./\$174.97, Cs. of 4/\$540.47  
Isopropanol, Low Water; Fisher Chemical; 4L; Amber Glass; 2-Propanol F.W. 60.09; C<sub>3</sub>H<sub>8</sub>O; CAS: 67-63-0

2-Propanol (USP/EP/BP/JP), Fisher Chemical

**A522-4** - Ea./\$267.23  
2-Propanol (USP/EP/BP/JP); Isopropanol; Fisher Chemical; 4L; Amber Glass; F.W. 60.10; C<sub>3</sub>H<sub>8</sub>O; (CH<sub>3</sub>)<sub>2</sub>CHOH; CAS: (67-63-0)  
**Suggested for ASTM Method: D874**

2-Propanol, Anhydrous, 99.5%, AcroSeal, Acros Organics

**AC61043-1000** - Ea./\$29.48, Cs. of 6/\$177.00  
Isopropanol; Anhydrous, 99.5%, AcroSeal; extra dry; 100mL; 2-Propanol; F.W. 60.1; C<sub>3</sub>H<sub>8</sub>O; CAS: 67-63-0  
**Suggested for ASTM Method: D664**

Pyridine (Certified ACS), Fisher Chemical

**P368-500** - Ea./\$139.99, Cs. of 6/\$656.35  
Pyridine; Certified ACS, Fisher Chemical; 500mL; Amber Glass; F.W. 79.10; C<sub>5</sub>H<sub>5</sub>N; N:CHCH:CHCH:CH; CAS: 110-86-1  
**Suggested for ASTM Method: D6584**  
**P368-1** - Ea./\$255.19, Cs. of 6/\$1,146.77  
Amber Glass; 1L  
**Suggested for ASTM Method: D6584**  
**P368S-4** - Ea./\$846.80, Cs. of 4/\$2,539.56  
SafeTin; 4L  
**Suggested for ASTM Method: D6584**  
**P368-4** - Ea./\$690.72, Cs. of 4/\$2,072.20  
Amber Glass; 4L  
**Suggested for ASTM Method: D6584**

Pyridine, Extra Dry, Water <50ppm, Acros Organics



**AC33942-1000** - Ea./\$50.80  
Pyridine, Extra Dry, Water <50ppm; Pyr; 100mL; Septum Bottle; F.W. 79.1; C<sub>5</sub>H<sub>5</sub>N; CAS: 110-86-1  
**Suggested for ASTM Method: E203**  
**AC33942-0010** - Ea./\$116.10  
Septum Bottle; 1L  
**Suggested for ASTM Method: E203**

Toluene (Certified ACS), Fisher Chemical

**T324-4** - Ea./\$179.08, Cs. of 4/\$553.16  
Toluene; Certified ACS, Fisher Chemical; 4L; Amber Glass; Methylbenzene, Toluol, Phenyl Methane; F.W. 92.14; C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub> CAS: 108-88-3  
**Suggested for ASTM Method: D5453**

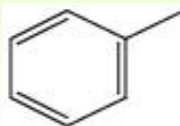
Toluene (Laboratory), Fisher Chemical

**T323-4** - Ea./\$148.82, Cs. of 4/\$459.76  
Toluene (Laboratory); Methylbenzene; 4L; Amber Glass; F.W. 92.14; C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>; CAS: (108-88-3)  
**Suggested for ASTM Method: D1160**

Toluene (OPTIMA), Fisher Chemical

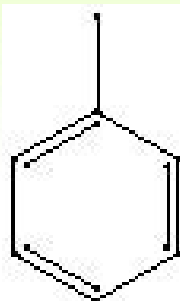
**T291-4** - Ea./\$155.17, Cs. of 4/\$436.08  
Toluene (Optima); Methylbenzene; 4L; Amber Glass; F.W. 92.14; C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>; CAS: (108-88-3)

Toluene, Extra Dry, Water <30ppm, Acros Organics



**AC32698-0010** - Ea./\$35.40  
Toluene, Extra Dry, Water <30ppm; 1L; Septum Bottle; Methylbenzene; F.W. 92.14; C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>; CAS: 108-88-3  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**

Toluene, for HPLC, Acros Organics



**AC26837-0010** - Ea./\$28.80  
Toluene, for HPLC; 1L; Glass Bottle; Methylbenzene; F.W. 92.14 C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>; CAS: 108-88-3  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**  
**AC26837-0025** - Ea./\$47.94, Cs. of 4/\$192.40  
Glass Bottle; 2.5L  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**

Toluene, reagent ACS, spectro grade 99.5%, Acros Organics

**AC42117-5000** - Ea./\$22.35, Cs. of 6/\$134.40  
Toluene, Reagent ACS, Spectro Grade; 99.5%; 500mL; Glass Bottle; Methylbenzene; F.W. 92.14; C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>; CAS: 108-88-3  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**  
**AC42117-0040** - Ea./\$88.50, Cs. of 4/\$355.20  
4L  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**

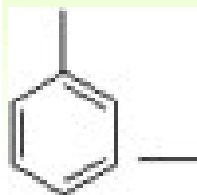
Toluene, spectrophotometric grade 99+%, Acros Organics

**AC16790-0010** - Ea./\$33.67, Cs. of 4/\$135.20  
Toluene, Spectrophotometric Grade 99+%; 1L; Glass Bottle; Methylbenzene; F.W. 92.14; C<sub>7</sub>H<sub>8</sub>; C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>; CAS: 108-88-3  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**  
**AC16790-0025** - Ea./\$164.39  
Glass Bottle; 2.5L  
**Suggested for ASTM Methods: D664, D874, D3606, D5453**

Xylenes (Certified ACS), Fisher Chemical

**X5-4** - Ea./\$182.46, Cs. of 4/\$567.62  
Xylenes; Certified ACS; Fisher Chemical; 4L; Amber Glass; Xylol, Dimethylbenzene; F.W. 106.16; C<sub>8</sub>H<sub>10</sub> CAS: 1330-20-7  
**Suggested for ASTM Method: D4951**

Xylenes, reagent ACS, Acros Organics



**AC42268-0040** - Ea./\$82.44  
Xylenes, Reagent ACS; 4L; Glass Bottle; Dimethylbenzene; F.W. 106.17; C<sub>8</sub>H<sub>10</sub>; C<sub>6</sub>H<sub>4</sub>(CH<sub>3</sub>)<sub>2</sub>; CAS: 1330-20-7  
**Suggested for ASTM Method: D5453**

## Standards

### AA ICP AES Standards

Beryllium Standard (Plasma Grade), SPEX CertiPrep

**PLBE2-2Y** - Ea./\$59.55  
Beryllium Standard (Plasma Grade), SPEX CertiPrep; 125mL; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Cerium Standard (Plasma Grade), SPEX CertiPrep

**PLCE2-2X** - Ea./\$109.20  
Cerium Standard (Plasma Grade), SPEX CertiPrep; 500mL; Poly Bottle  
**Suggested for Method: UOP 391**

## Cobalt Standard (Plasma Grade), SPEX CertiPrep

**PLCO1-2X** - Ea./\$113.69  
Cobalt Standard (Plasma Grade), SPEX CertiPrep; 500mL; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Lanthanum Standard (Plasma Grade), SPEX CertiPrep

**PLLA2-2Y** - Ea./\$58.67  
Lanthanum Standard (Plasma Grade), SPEX CertiPrep; 100mL; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Silver Standard (Plasma Grade), SPEX CertiPrep

**PLAG2-2Y** - Ea./\$59.55  
Silver Standard (Plasma Grade), SPEX CertiPrep; 125mL; Poly Bottle  
**Suggested for ASTM Method: D4951**

## EPA Methods Standards

## Surrogate Base Gasoline (For ASTM Method D5599-94), Ultra Scientific

**USRGO711** - Pk. of 4/\$93.16  
Surrogate Base Gasoline; For ASTM Method D5599-94; 4x1mL; ULTRApak

## Organic Standards

## Dibenzothiophene, Spex CertiPrep

**S-1185** - Ea./\$31.59  
Dibenzothiophene; Spex CertiPrep; Contains the following at 1000ug/mL in METH-P and T: Dibenzothiophene  
**Suggested for ASTM Method: D5453**

## Ethyl Acetate-1,2-C2, Spex CertiPrep

**S-1921** - Ea./\$44.64  
Ethyl Acetate-1,2-C2 contains the following at 1000ug/mL in METH-PandT: Ethyl acetate-1,2,-13C2, 1.2mL

## Petrochemical Standards

## Cadmium Standard (Oil, Plasma Grade), SPEX CertiPrep

**ORG-CD8-2Z** - Ea./\$39.48  
Cadmium Standard (Oil, Plasma Grade); SPEX CertiPrep; 50g; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Gasoline Range Organics (Petroleum A), Spex CertiPrep

**GRO-9** - Ea./\$42.30  
Gasoline Range Organics (Petroleum A) contains the following at Various %/vol in UNK: Benzene:0.05; Cyclohexane:1.5; 2,3-Dimethylbutane:1; 2,2-Dimethylpentane:0.5; 2,4-Dimethylpentane:0.5; Hexane:59.45; Methylcyclopentane:14  
**Suggested for ASTM Method: D6550**

## Lead Standard (Oil, Plasma Grade), SPEX CertiPrep

**ORG-PB8-2Z** - Ea./\$53.36  
Lead Standard (Oil, Plasma Grade); SPEX CertiPrep; 50g; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Manganese Standard (Oil, Plasma Grade), SPEX CertiPrep

**ORG-MN8-2Z** - Ea./\$46.72  
Manganese Standard (Oil, Plasma Grade); SPEX CertiPrep; 50g; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Organometallic Oil Standard, 21-Element (Oil), SPEX CertiPrep

**S21-100Z** - Ea./\$73.30  
Organometallic Oil Standard, 21-Element (Oil); SPEX CertiPrep; 50g; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Yttrium Standard (Oil, Plasma Grade), SPEX CertiPrep

**ORGY82Z** - Ea./\$41.86  
Yttrium Standard; Oil; Plasma Grade; SPEX CertiPrep; 50g; Poly Bottle  
**Suggested for ASTM Method: D4951**

## Standard Solutions

## Copper, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical

**SC194-100** - Ea./\$41.35, Cs. of 6/\$192.98  
Copper, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical; 100mL; Poly Bottle; CAS: (7697-37-2 (Nitric Acid))  
**Suggested for ASTM Method: D1688**  
**SC194-500** - Ea./\$111.40, Cs. of 6/\$520.96  
Poly Bottle; 500mL  
**Suggested for Method: UOP 391**

## Glucose Standard, Ricca Chemical

**3280-4** - Ea./\$26.70  
Glucose Standard; 1mL = 10mg Glucose in Aqueous Benzoic Acid Solution; 120mL; Poly Bottle

## Iron, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical

**SI124-500** - Ea./\$102.70, Cs. of 6/\$480.16  
Iron, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical; 500mL; Poly Bottle; CAS: (7782-61-8 (Ferric Nitrate))  
**Suggested for Method: UOP 391**

## Nickel, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical

**SN70-500** - Ea./\$103.12, Cs. of 6/\$481.99  
Nickel, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical; 500mL; Poly Bottle; CAS: (7697-37-2 (Nitric Acid))  
**Suggested for Method: UOP 391**

## Potassium, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical

**SP351-500** - Ea./\$105.91, Cs. of 6/\$501.69  
Potassium, Reference Standard Solution; Certified; 1000ppm +/-1%; Fisher Chemical; 500mL; Poly Bottle; CAS: (7447-40-7)  
**Suggested for Method: UOP 391**

## Sodium, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical

**SS139-500** - Ea./\$105.76, Cs. of 6/\$500.99  
Sodium, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical; 500mL; Poly Bottle; CAS: (7647-14-5)  
**Suggested for Method: UOP 391**

## Vanadium, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical

**SV15-500** - Ea./\$114.44, Cs. of 6/\$542.94  
Vanadium, Reference Standard Solution (1000ppm +/-1%/Certified), Fisher Chemical; 500mL; Poly Bottle; CAS: (1314-62-1 (Vanadium Pentoxide))  
**Suggested for Method: UOP 391**

## Water

## Water, ACS Reagent Grade, ASTM Type I, ASTM Type II, Ricca Chemical

**9151-1** - Ea./\$24.27  
Water; ACS Reagent Grade; ASTM Type I; ASTM Type II; Glass; 4L; Ricca, F.W. 18.01; H2O  
**Suggested for ASTM Method: D4052**

## Water, ACS Reagent Grade, ASTM Type I, Ricca Chemical

**9150-5** - Ea./\$45.99  
Water; ACS Reagent Grade; ASTM Type I; Cubitainer; 20L; Ricca, F.W. 18.01; H2O  
**Suggested for ASTM Method: D1688 D512**

Water (Env. Grade), Fisher Chemical

**W111** - Ea./\$61.59, Cs. of 6/\$317.42  
Water; Env. Grade, Fisher Chemical; 1L; Amber Glass; F.W. 18.01; H2O; CAS: 7732-18-5

**Suggested for ASTM Method: D664**

**W114** - Ea./\$139.75, Cs. of 4/\$437.03  
Amber Glass; 4L

**Suggested for ASTM Method: D664**

Water (OPTIMA), Fisher Chemical

**W7-4** - Ea./\$144.97, Cs. of 4/\$409.60  
Water; Optima; Fisher Chemical; 4L; Amber Glass; F.W. 18.01; H2O; CAS: 7732-18-5

**Suggested for ASTM Method: D874**

## Water Testing Reagents

Platinum Cobalt Color Standard Solution (APHA), Fisher Chemical

**SP120-1** - Ea./\$512.52, Cs. of 6/\$2,451.87  
Platinum Cobalt Color Standard Solution (APHA); 1L; Amber Glass  
**Suggested for ASTM Method: D1209**

## Consumables

### Apparel

#### Coveralls

DuPont Suprel LS Coveralls



- 19-165-162** - Cs. of 25/\$534.01  
Coveralls; DuPont Suprel LS; Drawstring hood; Zipper front; Elastic wrist and ankles; Sterile; X-Large; Patented bi-component fabric offers breathability and barrier protection combined with soft tactile feel and optimal comfort
- 19-165-204** - Cs. of 25/\$224.66  
Drawstring hood; Zipper front; Elastic wrist and ankles; XX-Large
- 19-165-163** - Cs. of 25/\$566.06  
Drawstring hood; Zipper front; Elastic wrist and ankles; Sterile; 3X-Large
- 19-165-205** - Cs. of 25/\$238.13  
Drawstring hood; Zipper front; Elastic wrist and ankles; 3X-Large
- 19-165-206** - Cs. of 25/\$252.43  
Drawstring hood; Zipper front; Elastic wrist and ankles; 4X-Large
- 19-165-164** - Cs. of 25/\$617.01  
Drawstring hood; Zipper front; Elastic wrist and ankles; Sterile; 4X-Large

DuPont Tychem TK Coveralls



**19-813-464** - Cs. of 1/\$316.67  
Coverall, With Hood; Level C

## Haz Mat Apparel

Ansell Vinyl Splash Aprons

**19-047-915** - Ea./\$8.78, Cs. of 12/\$87.69  
Apron, Vinyl; Splash Protection; Green PVC; Heavy-duty; 20mL thick; 35 x 45 in.

DuPont Tychem CPF 4 Level B Splash Suit



**19-088-1234C** - Ea./\$255.63, Cs. of 6/\$1,405.35  
Suit, Splash; Tychem CPF 4; Level B; Rear-entry; Large; 20mil PVC faceshield; Sock boots with flaps; Dark green

DuPont Tychem TK Level A Suits



**19-715-232** - Ea./\$1,599.35  
Suit, Haz Mat; Tychem TK; Level A; Large; Extra-wide faceshield; Attached internal and outer butyl gloves; Expanded back (accommodates SCBA); Rear entry; Gas-tight zipper closure; Double storm flap over zipper; Attached Outer boot

### Rainwear

LaCrosse Rainfair Chem-Tech Protective Apparel



**19-099-111D** - Ea./\$32.55  
Jacket, Protective apparel; Rainfair Chem-Tech I; Green; Detachable Hood; X-Large; Flame-retardant fabric; Polyester coated; Stand-up collar

## Bags, Autoclaving

Bel-Art Clavies Autoclavable Bags



**01-815-7** - Pk. of 100/\$69.00, Cs. of 10 Pk./\$676.20  
Bag, Autoclaving; Clavies; 12 x 24 in.; Biohazardous waste; Transparent; Polypropylene; 0.05mm thick; Disposable; Steam autoclavable at 121 deg. C

## Beakers, Reusable

### Corning Vycor Brand Beakers for Extreme Temperatures



**02-541B** - Cs. of 6/\$3,183.61  
Beaker; Reusable; Vycor; 400mL; Glass; With pouring spout; High thermal and chemical resistance; no graduations  
**Suggested for Method: UOP 391**

### Nalgene HDPE Beakers with Handles



**02-543-20A** - Ea./\$59.06, Cs. of 6/\$236.26  
Beaker, Reusable; Nalgene; 1000mL; 32 oz.; HDPE; Graduated in mL and oz.; With handle

### Nalgene Low Form Polypropylene Griffin Beakers



**02-591-10D** - Pk. of 6/\$46.81, Cs. of 6 Pk./\$187.26  
Beaker, Low Form; Nalgene; Polypropylene; Griffin; Autoclavable; No-drip, single-spout design; w/ graduations, size code, resin code, catalog number, maximum temperature and No Flame symbol; Meet ISO/DIS 7056 Intl Stds; Capacity: 250mL  
**Suggested for ASTM Method: D664**  
**02-591-10E** - Pk. of 6/\$67.31, Cs. of 6 Pk./\$269.25  
Capac.: 400mL

### Pyrex Heavy-Duty Griffin Beakers



**02-555-25B** - Pk. of 12/\$99.86, Cs. of 4 Pk./\$301.78  
Beaker, Pyrex; Corning, Heavy-duty; Griffin style; Capac.: 250mL; Designed to ASTM E 960 requirements  
**Suggested for ASTM Method: D664**

### Pyrex Low-Form Griffin Beakers



**02-540G** - Pk. of 12/\$51.97, Cs. of 4 Pk./\$159.90  
Beaker, Reusable; Pyrex; 50mL; Griffin; Graduation range: 10-40mL; Graduation interval: 10mL; Marking spot; Strengthened rim with flare trimmed back  
**02-540K** - Pk. of 12/\$56.06, Cs. of 4 Pk./\$163.65  
250mL Capacity; 25mL Graduations; Pack of 12  
**02-540L** - Pk. of 12/\$65.20, Cs. of 4 Pk./\$190.47  
400mL Capacity; 25mL Graduations; Pack of 12  
**02-540M** - Pk. of 6/\$42.15, Cs. of 6 Pk./\$181.31  
600mL Capacity; 50mL Graduations; Pack of 12  
**02-540P** - Pk. of 6/\$78.05, Cs. of 4 Pk./\$227.83  
1000mL Capacity; 50mL Graduations; Pack of 12

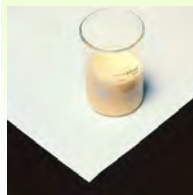
## Bench Protectors

### Fisherbrand Absorbent Surface Liners



**14-127-46** - Cs. of 6/\$221.00  
Bench Liner; Fisherbrand; Absorbent multilayers; Waterproof polypropylene backing; Size: 20 in. x 50 ft.; Dispenser box  
**14-127-47** - Cs. of 1/\$139.00  
Size: 20 in. x 300 ft. roll

### Whatman Benchkote Surface Protectors



**12-007-180** - Pk. of 50/\$120.88  
Surface Protector, Benchkote; Coated on one side with an impermeable layer of polyethylene; Paper side can be written on with ink or pencil; Sheets; L x W: 18 x 221/2 in. (46 x 57cm)

## Bins

### Nalgene Lab Organizers



**15-350-87** - Cs. of 1/\$111.75  
Bins; Nalgene; Stackable Drawer; Clear Acrylic; Bench Top or Under Shelf; Outside Dimensions: 9L x 9W x 4-1/2H (22.9 x 22.9 x 11.4cm)

## Boots

### Onguard Hazmax Boots



**17-985-403B** - Pair/\$137.83  
Boot, Knee; Hazmax; Size 6; 16 in. H; Steel toe; Full steel midsoles; Steel ladder shanks; Kick-off lug; Chemical-resistant uppers; Yellow outsoles  
**17-985-403H** - Pair/\$137.83  
Size 12

### Tingley Premier Work Boots



**19-034-462E** - Pair/\$65.38  
Work boot; Steel toe; Slip-resistant sole; 15 in. H; Size: 10; Red with beige outsole; Waterproof  
**19-034-462F** - Pair/\$65.38  
Size 11  
**19-034-462G** - Pair/\$65.38  
Size 12  
**19-034-462H** - Pair/\$65.38  
Size 13  
**19-034-462J** - Pair/\$65.38, Cs. of 6 Pair/\$343.69  
Size 14

# Bottles

## Centrifuge Bottles

### Fisherbrand Plastic Centrifuge Bottles



**14-375-352** - Pk. of 4/\$48.80, Cs. of 9 Pk./\$375.41  
 Bottle, Centrifuge; Fisherbrand, 250mL, Polycarbonate; Polypropylene screw cap; Wide-mouth design; Autoclavable

### Corning Glass Centrifuge Bottles



**05-586** - Cs. of 12/\$440.14  
 Bottle, Centrifuge; Corning; 250mL; Glass; Heavy Walled; Permits concentration of sediment for decanting operations. 60 x 143mm; Pyrex Brand Glass  
**Suggested for ASTM Method: D2709**

## Environmental Bottles

### I Chem Tall Wide-Mouth Clear Glass Jars



**05-719-85** - Cs. of 12/\$58.58  
 Bottles, Environmental; I-Chem; 32 oz. (1L); Tall; Wide-mouth; Clear glass; 200 Series; Cleaned for semivolatiles, pesticide/PCB, metal, and cyanide analyses; With attached, polypropylene closures with Teflon fluorocarbon resin liners  
**Suggested for ASTM Method: D2500**

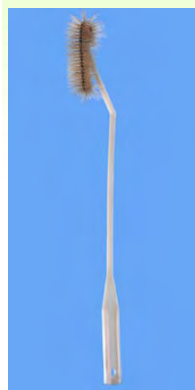
## Brushes

### Fisherbrand Adaptable-To-Container Brush



**03-565** - Ea./\$14.51, Pk. of 12/\$148.79  
 Brush, Adaptable-to-Container; Fisherbrand; Single-row bristles; Heavy wire handle with swivel joint; Overall Length: 12 in.; Bristle dia. 1-1/2 x 4-1/4 in. L

### Fisherbrand Brush with Extension for Flask Curves



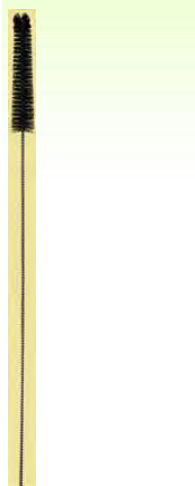
**03-571-5** - Ea./\$21.71, Pk. of 12/\$222.46  
 Brush, Flask; Fisherbrand; Extended bristled end; Plastic shaft and handle; White unbleached hog bristles; Length: 16 in.; Bristle 4 L x 1-1/2 in. (10 x 3.8cm) dia.

### Fisherbrand Budget-Priced Brushes



**03-574** - Pk. of 12/\$42.36, Cs. of 12 Pk./\$434.45  
 Brushes, Test Tube; Fisherbrand; Galvanized wire handles resist rust and corrosion; Overall Length: 9-1/2 in.; Bristles: 3-1/2 L x 3/4 in. Dia.

### Fisherbrand Buret Brushes



**03-615** - Ea./\$7.79, Pk. of 12/\$77.73  
 Brush, Buret; Fisherbrand; For Buret Sizes: 75-100mL; Galvanized wire handle; 36 in.; Bristle Dia. 1-1/4 x 5-1/4 in. L

Fisherbrand Nessler Tube Brushes



**03-621A** - Ea./\$10.37, Pk. of 12/\$103.20  
 Brush, Nessler Tubes; Fisherbrand; Low-Form; double-fan tip; Full bristles; galvanized wire handle; Overall Length: 9-1/2 in.; Bristles: 3-1/2 L x 3/4 in. Dia.; Small and Large Cylinder;  
**03-621B** - Ea./\$19.03, Pk. of 12/\$195.19  
 For low-form tubes; 20 in. L Overall; Bristle dia. 2-3/8 in. x 6 in. L

## Burets

### Automatic Burets

Brinkmann Metrohm 775 Series Dosimat Automatic Burets



**20-756-802** - Ea./\$1,867.35  
 Burets; Automatic; Metrohm Dosimat; Model 775; 10mL; With magnetic stirrer; For performing manual titrations with color indicator or pH meter in dosing mode only; Include trigger to remotely add reagent  
**20-756-829** - Ea./\$1,867.35  
 20mL; With Magnetic Stirrer,  
**20-756-845** - Ea./\$1,867.35  
 50mL; With Magnetic Stirrer,

Fisherbrand Automatic Burets with Std. Taper Stopcocks and Storage Bottles



**03-842-1B** - Ea./\$205.86  
 Buret, Automatic; Fisherbrand; With clear glass reservoir; Reservoir Capacity: 500mL; Capacity: 25mL; Subdivision: 0.1mL  
**03-842-2B** - Ea./\$206.16  
 25mL, Amber reservoir

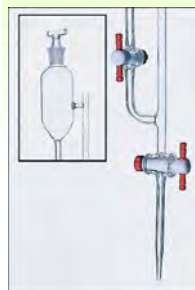
Nalgene Break-Resistant Self-Zeroing Automatic Burets



**03-834C** - Ea./\$158.91, Cs. of 4/\$423.76  
 Buret, Automatic; Nalgene; Self-Zeroing, Break-resistant, Capacity: 50mL, Reservoir Capacity: 1000mL; Subdivisions: 0.1mL; Crystal-clear acrylic body; PMP stopcock and tip; Teflon TFE plug

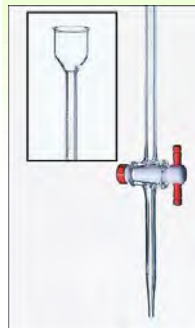
### Manual Burets

Kimax Microburets with Integral Reservoir



**20-112A** - Ea./\$293.16  
 Buret, Manual; Kimax; Microburet; Class A; Calibrated; Integral 70mL reservoir; With stopper and 2 stopcocks; Capacity: 2mL; Subdivision: 0.01mL  
**Suggested for several ASTM Methods.**  
**20-112C** - Cs. of 1/\$303.35  
 10mL  
**Suggested for ASTM Method: D664**

Kimax Microburets with PTFE-Plug Stopcock



**20-105A** - Cs. of 1/\$281.14  
 Microburet; Kimax; Class A; With PTFE stopcock; White scale; Permanent serial no.; Includes No. 2 PTFE-plug stopcock; Certificate of traceability; Capacity: 5mL  
**Suggested for ASTM Method: D512**

## Chromatography Columns and Supplies

### Columns for Chromatography

Restek Rt-QPLOT (Fused Silica PLOT) Columns

**06-710-451** - Ea./\$765.00  
 Column, GC; Rt-Q PLOT Column; Restek; Fused Silica; 30m length; 0.53mm I.D.; 20um df; Temp. Limits: to 310 deg. C

Restek Rtx-1PONA Capillary Columns

**06-708-507** - Ea./\$890.00  
 Column, Capillary GC; Rtx-1 PONA Capillary Column; Restek; 100m length; 0.25mm I.D.; 0.50um df; Temp. Limits: -60 to 300/340 deg. C  
**Suggested for ASTM Method: D5501**

### Restek Siltek-Deactivated Guard Columns

**06-708-127** - Ea./\$79.57  
Guard Column; Restek; Siltek Deactivation; 0.69mm O.D. (+/- 0.05mm); 0.53mm I.D.; 5m length  
**Suggested for ASTM Method: D6584**

### Thermo Scientific Hypersil Trace GC Columns



**26-0B142P** - Ea./\$505.36  
Column, GC Capillary; TR-1MS; Thermo Scientific; 100% Dimethyl Polysiloxane, 380 deg. C Max. Operating Temperature; 0.25um Film Thickness, I.D. x L: 0.25mm x 30m; Universal Column  
**Suggested for ASTM Method: D5501**

## Fittings Tubing and Supplies

### Injection Port Liners for Shimadzu Instruments from Thermo Scientific



**45-3S1-665** - Pk. of 5/\$84.00  
Chromatography supplies; SPME Liner; Thermo Scientific; Borosilicate Glass; No Packing; For Shimadzu 17A Instruments; 5 O.D.; 0.75 I.D. x 95mm Length; 5/Pk  
**45-3S1-625** - Pk. of 5/\$140.66  
Split/Splitless FocusLiner With Taper; 3.4 I.D. x 5 O.D. x 95mm Length; For Shimadzu 17A Instruments; Pack of 5  
**45-3S1-605** - Pk. of 5/\$98.30  
Split/Splitless FocusLiner; 3.4 I.D. x 5 O.D. x 95mm Length; For Shimadzu 17A Instruments; Pack of 5  
**45-3S2-985** - Pk. of 5/\$99.25  
Split/Splitless FocusLiner; 3.4 I.D. x 95mm Length; For Shimadzu 2010 Instruments; Pack of 5  
**45-3S2-595** - Pk. of 5/\$92.63  
Split/Splitless Liner w/Recessed Gooseneck; 3.4 I.D. x 95mm Length; Shimadzu 17A Instruments  
**45-3S1-645** - Pk. of 5/\$51.04  
Straight Liner; 2.6 I.D. x 95mm Length; For Shimadzu 2010 and 17A Instruments; Pack of 5  
**45-3S2-615** - Pk. of 5/\$55.77  
Straight Liner; 3.4 I.D. x 5 O.D. x 95mm Length; For Shimadzu 2010 and 17A Instruments; Pack of 5

### Injection Port Liners for Thermo Instruments from Thermo Scientific



**45-352-054** - Pk. of 5/\$618.80  
Chromatography supplies; Split Straight Liner; Thermo Scientific; Deactivated Borosilicate Glass; 2.75 O.D.; 1 I.D. x 125mm Length; No Packing; Trace PTV and Focus Instruments; 5/Pk  
**45-322-045** - Pk. of 5/\$89.61  
2 I.D. x 120mm Length  
**45-352-057** - Pk. of 5/\$144.56  
2 I.D. x 2.75 O.D. x 120mm Length; Trace PTV and Focus Instruments  
**45-350-300** - Pk. of 5/\$93.02  
2 I.D. x 5 O.D. x 79.5mm Length; For Mega 4000, 5000, and 6000 Instruments  
**45-350-031** - Pk. of 5/\$87.90  
3 I.D. x 105mm Length; For Trace and Focus SSL Instruments  
**45-350-400** - Pk. of 5/\$91.00  
3 I.D. x 5 O.D. x 79.5mm Length; For Mega 4000, 5000, and 6000 Instruments  
**45-350-033** - Pk. of 5/\$124.61  
5 I.D. x 105mm Length; For Trace and Focus SSL Instruments  
**45-350-030** - Pk. of 5/\$87.90  
5 I.D. x 105mm Length; For Trace and Focus SSL Instruments  
**45-3T1-905** - Pk. of 5/\$135.00  
5 I.D. x 8 O.D. x 105mm Length; Trace and Focus Instruments

### Restek Capillary Ferrules



**06-717-621** - Pk. of 10/\$38.00  
Ferrules, Capillary Columns; Restek; Vespel/Graphite; 0.4mm dia; Column I.D. 0.25/0.28mm; For use with 1/16 in; Compression-Type Fittings

### Restek Compact Ferrules



**06-717-649** - Pk. of 10/\$33.00  
Ferrule, Graphite; Compact 1/16 in. x 0.4mm I.D.; For HP GCs; Pack of 10  
**06-718-349** - Pk. of 10/\$33.00  
Fits Column I.D.: 0.28/0.32mm

### Restek GC Installation Kit

**06-711-520** - Ea./\$235.89  
Chromatography supplies; GC Installation Kit; Restek four 1/8-in. brass tees, tubing cutter, one each 1/8 x 1/4 in. reamer, 7/16 in. wrench, 1/2 in. wrench, ten 1/8 in. brass nuts/brass front/back ferrules, 50 ft. of 1/8-inch copper tubing

### Restek Inlet Liners for Split Injection

**06-711-020** - Ea./\$25.00  
Chromatography supplies; Split injection inlet liners; Restek; Wool glass; 6.3mm O.D.; 4mm I.D. x 78.5mm Length

### Retention Gap Kits from Thermo Scientific



**03-150-234** - Ea./\$25.55  
Tubing; Thermo Scientific; Deactivated Silica; 0.53mm I.D. x 2m Length  
**Suggested for ASTM Method: D6584**

### Thermo Scientific GC Injection Port Liners



**45-3A2-282** - Pk. of 25/\$356.90  
Injection Port Liner; Split/Splitless FAST FocusLiner; Thermo Scientific; Borosilicate Glass; Quartz Wool Packing; For Agilent instruments; 2.3 I.D.; 6.3 O.D.; 78.5mm Length; 25/Pk  
**03-251-155** - Pk. of 5/\$87.90  
Splitless; 6.3 O.D.; 2.0 I.D. x 78.5mm Length

## Packings for Chromatography Columns

### Alumina, Activated (8-14 Mesh), Fisher Chemical

**A505-212** - Ea./\$166.64, Cs. of 4/\$499.89  
Chromatography supplies; Activated alumina glass packing; Fisher Chemical; 8-14 mesh; 2.5kg  
**Suggested for ASTM Method: D664**

## Closures

### Fisherbrand Pre-assembled Snap Caps with Septa



**03-391-42** - Pk. of 100/\$25.25  
Closure; Snap Cap; Fisherbrand; Preassembled with PTFE/silicone solid septa; For 2mL vials; 12mm  
**03-391-43** - Pk. of 100/\$39.94  
Pre-slit septa; For 2mL vials; 12mm

### Restek Thermolite Septa



**06-802-722** - Pk. of 50/\$64.00  
Septa; Thermolite; Restek; 11mm (7/16 in.) diameter; Max. working temperature 340 deg. C; Preconditioned  
**06-802-723** - Pk. of 100/\$106.00  
11mm (7/16 in.); Pack of 100  
**06-802-721** - Pk. of 25/\$44.00  
11mm (7/16 in.); 25/P



## Thermo Scientific Hypersil Septa



**31-303-230** - Pk. of 50/\$72.83  
Septa; Thermo Scientific; 11.0mm; BTO; Low Bleed Silicone; 400 deg. C Temperature Limit; For use with Thermo Trace and Focus Packed Injectors

## Combustion Boats

### Fisher Scientific Nickel Combustion Boat



**11-474-211** - Ea./\$21.32  
Boat, Combustion; Fisher Scientific; Nickel with 0.02% carbon content; 3 x 3/4 x 1/2 in.; Resistant to 1370 deg. C (2498 deg. F); Flat bottom  
**Suggested for ASTM Method: D5453**

## Condensers, Graham

### Pyrex Graham Condensers with outer Std. Taper joint at top



**07-729A** - Cs. of 1/\$151.01  
Condensers, Graham; Pyrex; Outer Standard Taper Joint at Top: 19/38; Jacket L: 200mm  
**Suggested for ASTM Methods: D5190, D5191**

## Crucibles, Glass

### Fisherbrand Self-Sealing Quartz Crucibles



**10-490-4** - Cs. of 4/\$351.62  
Crucible, Glass; Fisherbrand; Airtight, self-sealing lids; Forms an oxygen-free atmosphere; Produces more reproducible results; Capacity: 10mL  
**Suggested for ASTM Method: D1160**

## Crucibles, Porcelain

### CoorsTek Wide-Form Porcelain Crucibles



**07-955H** - Ea./\$12.96, Cs. of 18/\$196.06  
Crucible; CoorsTek; Coors; Porcelain, glazed except for bottom and rim; Withstands 1150 deg. C; Wide-form, 84mm diameter; 52mm height; 150mL capacity  
**Suggested for ASTM Method: D874**

## Cuvets and Cells

### Fisherbrand Quartz, Silica and Glass Cells: Standard



**14-385-902C** - Pk. of 2/\$358.57  
Cell, Standard; Sample; Fisherbrand; Spectrophotometer; With Suprasil quartz windows; Lightpath: 10mm; Capacity: 3.0mL; 45mm H; With PTFE cover  
**Suggested for ASTM Method: D1209**  
**14-385-904C** - Pk. of 4/\$711.43  
10mm Lightpath, PTFE cover; Pack of 4  
**Suggested for ASTM Method: D1209**

### Brandtech Brand Plastic Cuvettes

**14-377-013** - Pk. of 100/\$18.37  
Cuvette; Plastic, Disposable; Polystyrene; 1.5-3.0mL Semi-Micro, 10mm lightpath, Use above 340nm  
**Suggested for ASTM Methods: D1209, D3231**  
**14-377-012** - Pk. of 500/\$79.34  
3.0mL 500/pk  
**Suggested for ASTM Methods: D1209, D3231**  
**14-377-011** - Pk. of 100/\$16.44  
4.5mL 100/pk  
**Suggested for ASTM Methods: D1209, D3231**  
**14-377-010** - Pk. of 500/\$72.82  
4.5mL 500/pk  
**Suggested for ASTM Methods: D1209, D3231**

## Cylinders, Graduated Glass

### Fisherbrand Cylinder for Petroleum Distillations



**08-558** - Ea./\$35.47, Cs. of 12/\$360.04  
Cylinders, Glass; Fisherbrand; For petroleum distillations; 1mL subdivisions; 100mL capacity  
**Suggested for ASTM Method: D4530**

### Kimax Graduated Cylinder Set



**S32139** - Pk. of 5/\$140.50  
Cylinder, Graduated; Glass; Built-in glass hex base; Set of five including one each of 10, 25, 50, 100, and 250mL; All except 10mL include plastic bumper; Rated To Deliver

Pyrex Class B Cylinders with Single White-Enamel Metric Graduations, TC



**08-552D** - Ea./\$29.21, Cs. of 18/\$363.46  
Cylinders, Graduated, Glass, Rated To Contain; Pyrex;  
Capacity: 50mL; Subdiv.: 1mL; 225mm H; Class B; With  
bumper guard  
**08-552E** - Ea./\$34.79, Cs. of 12/\$289.06  
Capacity: 100mL; Subdivisions: 1mL  
**Suggested for ASTM Methods: D4530, D1353**

Cylinders, Graduated Plastic

Nalgene Economy Polymethylpentene Cylinders



**08-572-7B** - Ea./\$8.11, Cs. of 18/\$97.26  
Cylinders, Graduated, Glass, Rated To Contain/  
To Deliver; Nalgene; 25mL; Subdivisions: 0.5mL;  
Polymethylpentene; Autoclavable  
**08-572-7D** - Ea./\$12.23, Cs. of 12/\$97.76  
Capacity: 100mL; Subdivisions: 1mL  
**Suggested for ASTM Methods: D4530, D1353**  
**08-572-7F** - Ea./\$22.69, Cs. of 8/\$121.00  
500mL; Subdivisions: 5mL

Cylinders, Ungraduated

Fisherbrand Borosilicate Cylinders with Pouring Lip



**08-530K** - Ea./\$27.45, Cs. of 12/\$281.53  
Cylinder, Ungraduated; Fisherbrand; Borosilicate glass;  
With pouring lip; Approx. Capacity: 350mL; O.D.: 41mm  
**Suggested for ASTM Method: D287**

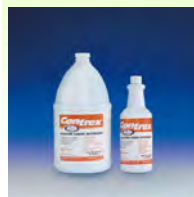
Detergents and Cleaners

Fisher Scientific Cleaning Solution (Chromic-Sulfuric Acid)



**SC88-500** - Ea./\$45.99, Cs. of 6/\$218.62  
Cleaning Solution; Chromic-Sulfuric Acid; 500mL, Amber  
Glass; Glasware cleaning solution  
**Suggested for ASTM Methods: D445, D4052**

Decon Contrex AL Alkaline Liquid Detergent



**04-358-10** - Ea./\$60.72, Cs. of 4/\$206.43  
Detergent; Contrex AL; 1 gal. (3.8L); Concentrated  
alkaline liquid; Phosphate free; For use in manual, soak,  
or ultrasonic cleaning of labware, scientific apparatus, and  
process equipment

Decon Dri-Contrad Detergent



**04-355-4** - Ea./\$30.25, Cs. of 6/\$155.11  
Detergent; Decon Dri-Contrad; 4-3/8 lb. (2kg); Non-  
foaming; Chlorinated; For automatic washers; Removes  
proteins, blood, oils, waxes, and organic or inorganic  
contaminants

Dishes

Evaporating Dishes

Fisherbrand Aluminum Dishes with Fluted Sides



**08-732-109** - Pk. of 50/\$32.16  
Dishes, Evaporating; Fisherbrand; Aluminum; With fluted  
sides; Disposable; Bottom I.D.: 5.39 in.; Top I.D. 7.09 in.;  
Depth 1.02 in.; 500mL

Vycor Evaporating Dishes



**08-708B** - Ea./\$175.67, Cs. of 8/\$993.99  
Dish, Evaporating; Vycor; 96% silica to withstand high-  
temperature ashing; Flat bottom; Pour-out spout; Safely  
withstand temperatures to 900 deg. C (1652 deg. F);  
Diameter: 90mm; Capacity: 100mL  
**Suggested for ASTM Method: D874**

## Petri Dishes

### Fisherbrand Media-Miser Disposable Petri Dishes



**08-757-13A** - Cs. of 500/\$170.22  
 Petri Dish, Disposable; Media-Miser; Fisherbrand; Polystyrene; Smaller size saves media; Clear tops; Snug fit lids; Venting ribs; Raised, straight ridge for stacking; Radiation-sterilized; Dia. x H (approx): 60 x 15mm

### Fisherbrand Petri Dishes with Clear Lids



**08-757-13** - Cs. of 500/\$179.00  
 Dish, Petri; Fisherbrand; Clear Lid; Radiation-sterilized; Polystyrene; Beveled Ridge; 100 O.D. x 15mm H; Edges are square; Three venting ribs in lid; Stackable; Disposable  
**08-757-12** - Cs. of 500/\$179.00  
 Raised Ridge; 100 Dia. x 15mmH; Case of 500  
**08-757-14** - Cs. of 100/\$148.27  
 Beveled Ridge; 150 Dia. x 15mmH

## Distillation Columns Traps Tubes

### Fisher Scientific DU100 Distillation Unit and Kjeltec 2200 Distillation Systems Accessories

**TC1000-0787** - Pk. of 6/\$528.42  
 Systems, Distillation; For All Kjeltec Models; Description: Direct Distillation Tubes, 750mL  
**Suggested for DDGS Method AOAC 2001.11.**  
**TC1000-0487** - Ea./\$97.13  
 Rubber Adapters For 75 or 100mL Tubes  
**Suggested for DDGS Method AOAC 2001.11.**  
**TC1000-0056** - Ea./\$79.99  
 Rubber Adapters For 250mL Tubes  
**Suggested for DDGS Method AOAC 2001.11.**  
**TC1000-2049** - Ea./\$238.79  
 Stand for 12 D.D. Tubes  
**Suggested for DDGS Method AOAC 2001.11.**

## Drying Racks

### Inter Dyne Drying Racks

**91-163** - Ea./\$465.00  
 Racks, Drying; Inter Dyne Systems; Size: 30 x 30 in.; 50 pegs; Wall mounted; Rack: Stainless steel; Pegs: Polypropylene

## Ear Plugs

### EARflex 28 Semi-aural Hearing Protector



**19-153-648** - Pk. of 10/\$69.43  
 Hearing Protector; Semi-Aural; E-A-Rflex 28; NRR: 28dB; Foam Tips; Orange; Banded Hearing Protector

### Moldex Camo Plugs



**19-046-810** - Pk. of 200/\$14.95, Cs. of 10 Pk./\$145.30  
 Plugs, Camo; Moldex; Uncorded; Noise Reduction Rating (NRR): 32dB; Foam; Tapered

### Moldex Jazz Band Ear Band



**19-003-160A** - Ea./\$7.96, Cs. of 50/\$323.31  
 Band, Hearing; Jazz Band; NRR: 25dB; Does not interfere with eyewear and hangs conveniently with optional breakaway cord; Exclusive AdB coating on pods increases noise attenuation

## Eye Protection

### Faceshields

#### MSA Faceshield Universal Visors



**18-999-4046** - Ea./\$8.35  
 Visor, Particulate and Dust Splash; Acetate; Clear; 16 L x 8 W x 0.06 in. H

### Goggles

#### AOsafety Centurion Splash Goggles



**19-047-713** - Ea./\$11.58  
 Goggle, Splash; Clear; Anti-Fog Lens; Polycarbonate; Absorbs 99.9% UV rays; Vertical vent system

### Spectacles

#### Uvex Genesis Spectacles



**19-134-921** - Ea./\$16.40, Pk. of 10/\$127.50  
 Safety Glasses; Uvex Genesis; Dual 9-base; Wrap-Around Lens; Soft Flexible Fingers; Brow Guard; Frame color: Black; Lens Tint: SCT Low IR / Ultradura; Meets MIL V0 Ballistic Test for Impact

## Lens Cleaning Products

#### Bausch and Lomb Sight Savers Liquid Cleaner



**17-226E** - Cs. of 10/\$62.60  
 Cleaner, Liquid; Sight Savers; Silicone-free; 16 oz. Spray Bottle; Heavy-duty; Reduces lens fogging  
**17-226G** - Ea./\$32.38, Cs. of 4/\$110.30  
 1 gal. Bottle

# Filter Apparatus and Filters

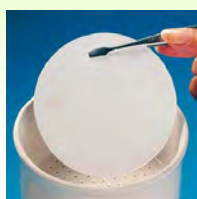
## Capsules and Inline Filters

### Millipore Millex Vacuum Line Protection and Tank/Bioreactor Venting Filter Units

- SLFG75010** - Pk. of 10/\$103.00  
Filter Units (50mm dia.), Millex Vacuum Line Protection and Tank/Bioreactor Venting; Inlet and outlet: 1/8 MNPT; Pore Size: 0.2um
- SLFG85000** - Pk. of 100/\$689.00  
Pore Size: 0.2um; Inlet and outlet: Stepped hose barb with female Luer slip interior; Pack of 10
- SLFG85010** - Pk. of 10/\$103.00  
Pore Size: 0.2um; Inlet and outlet: Stepped hose barb with female Luer slip interior; Pack of 100
- SLFG65010** - Pk. of 10/\$103.00  
Pore Size: 0.2um; Inlet: Stepped hose barb with female Luer slip interior; Outlet: 1/8 NPT.
- SLFG05010** - Pk. of 10/\$103.00  
Pore Size: 0.22um; Inlet and outlet: Stepped hose barb with female Luer slip interior
- SLFG05000** - Pk. of 100/\$689.00  
Pore Size: 0.22um; Inlet and outlet: Stepped hose barb with female Luer slip interior.
- SLFG025LS** - Pk. of 50/\$148.00  
Pore Size: 0.22um; Inlet: Female Luer-Lok; Outlet: Male Luer Slip
- SLFH05010** - Pk. of 10/\$103.00  
Pore Size: 0.45um; Inlet and outlet: Stepped hose barb with female Luer slip interior; Pack of 10
- SLFH05000** - Pk. of 100/\$689.00  
Pore Size: 0.45um; Inlet and outlet: Stepped hose barb with female Luer slip interior; Pack of 100
- SLFA05010** - Pk. of 10/\$105.00  
Pore Size: 1.0um; Inlet and outlet: Stepped hose barb with female Luer slip interior; Pack of 10
- SLFA05000** - Pk. of 100/\$710.00  
Pore Size: 1.0um; Inlet and outlet: Stepped hose barb with female Luer slip interior; Pack of 100

## Glass Fiber Filters and Prefilters

### Fisherbrand Glass Fiber Circles



- 09-804-90A** - Pk. of 100/\$53.36  
Filters; Glass Fiber Circles; Fisherbrand; Ideal as prefilters and for gravimetric analyses; Fast flow; High retention; Diameter: 90mm; Grade G6  
**Suggested for ASTM Method: D664**

## Hardware for Filtration

### Fisherbrand Glass Microanalysis Vacuum Filter Holders

- 09-753-102** - Ea./\$349.42  
Filter Holder, Vacuum; Fisherbrand; Glass; Microanalysis; with fritted glass support; Filter size: 47mm; Max. capacity: 1000mL; Connection: standard taper 40/35 (09-753-102) for 1L flask or manifold

### Fisherbrand Vacuum Filter Holder Replacement Parts and Accessories

- 09-753-31A** - Ea./\$31.88  
Clamp, Anodized; Accessory for vacuum filter holder; For Use with Cat. No.: 09-753-1A, 09-753-1C, 09-753-1E, 09-753-1G; Description: For Model: 47mm
- 09-753-104** - Ea./\$119.21  
Flask Filter, Capacity: 1000ml, Joint: 40/35
- 09-753-34B** - Ea./\$139.67  
Funnel, Capacity: 500mL, 47mm
- 09-753-32A** - Ea./\$8.52  
Stopper, Perforated, No. 8
- 09-753-103** - Ea./\$190.08  
Support Base, 47mm, Joint: 40/35

## Membranes for Filtration

### Fisherbrand General Filtration Membrane Filters

- 09-719-2A** - Pk. of 100/\$68.86  
Filter, Membrane; Fisherbrand General Filtration; Plain, white membrane filters; Pure, biologically inert mixture of cellulose acetate and cellulose nitrate (MCE); Diameter: 25mm; Pack of: 100; Pore Size: 0.2um
- 09-719-2B** - Pk. of 100/\$105.30  
Pore Size: 0.2um; Diameter: 47mm
- 09-719-2D** - Pk. of 100/\$56.17  
Pore Size: 0.45um; Diameter: 25mm
- 09-719-2E** - Pk. of 100/\$104.04  
Pore Size: 0.45um; Diameter: 47mm
- 09-719-2F** - Pk. of 50/\$253.00  
Pore Size: 0.45um; Diameter: 142mm
- 09-719-2G** - Pk. of 100/\$68.55  
Pore Size: 0.8um; Diameter: 25mm
- 09-719-2H** - Pk. of 100/\$122.47  
Pore Size: 0.8um; Diameter: 47mm

## Qualitative Filter Paper

### Fisherbrand Qualitative Grade Plain Circles and Sheets - P8 Grade

- 09-795AA** - Pk. of 100/\$8.30  
Filter Paper, Qualitative; Fisherbrand; Grade P8; Cellulose fiber; Particle Retention: 20-25um; Porosity: Coarse; Filtration Speed: Herzberg, 55 seconds; Flowrate: Fast-160mL/min.; Circles; 2.5cm dia.
- 09-795BB** - Pk. of 100/\$8.13  
Circles; 3.5cm dia.
- 09-795A** - Pk. of 100/\$7.68  
Circles; 5.5cm dia.
- 09-795B** - Pk. of 100/\$9.08  
Circles; 7cm dia.
- 09-795C** - Pk. of 100/\$7.54  
Circles; 9cm dia.
- 09-795D** - Pk. of 100/\$8.98  
Circles; 11cm dia.
- 09-795E** - Pk. of 100/\$9.28  
Circles; 12.5cm dia.
- 09-795F** - Pk. of 100/\$12.45  
Circles; 15cm dia.
- 09-795G** - Pk. of 100/\$17.12  
Circles; 18.5cm dia.
- 09-804** - Pk. of 100/\$41.42  
Circles; 19cm dia.
- 09-795H** - Pk. of 100/\$26.09  
Circles; 20.5cm dia.
- 09-795J** - Pk. of 100/\$27.26  
Circles; 24cm dia.
- 09-795K** - Pk. of 100/\$52.18  
Circles; 33cm dia.
- 09-800** - Pk. of 500/\$260.87  
Sheets; 50 x 50cm
- 09-802-1B** - Pk. of 100/\$129.43  
Sheets; 46 x 57cm

## Quantitative Filter Paper

### Fisherbrand Quantitative Grade Circles

- 09-790-4A** - Pk. of 100/\$14.19  
Filter Paper, Quantitative; Fisherbrand; Circles; Grade: Q5; Particle retention: 5-10um; Porosity: Medium; Filtration speed: Medium; Surface: Smooth; Diameter: 5.5cm
- 09-790-4B** - Pk. of 100/\$17.91  
Grade Q5; Diameter: 7cm
- 09-790-4C** - Pk. of 100/\$23.41  
Grade Q5; Diameter: 9cm
- 09-790-4E** - Pk. of 100/\$32.89  
Grade Q5; Diameter: 12.5cm
- 09-790-4F** - Pk. of 100/\$44.09  
Grade Q5; Diameter: 15cm
- 09-790-4G** - Pk. of 100/\$63.95  
Grade Q5; Diameter: 18.5cm

### Whatman Quantitative Grade Papers Ashless Circles and Sheets Part 2



**09-855F** - Pk. of 100/\$87.48  
 Filter Papers; Whatman; Quantitative; Grade Papers; Ashless circles and sheets; Part 2; Particle retention: >2.5um; Surface: Smooth, dense texture; Porosity: Medium; Filtration speed: Herzberg, 1870 seconds; 18.5cm dia.  
**09-855AA** - Pk. of 100/\$20.36  
 Whatman 42; Diameter: 42.5cm  
**09-855A** - Pk. of 100/\$24.71  
 Whatman 42; Diameter: 7cm

### Syringe and Syringeless Filters

#### Fisherbrand Syringe Filters

**09-719-4** - Pk. of 1000/\$1,046.15  
 Filters, Syringe; Fisherbrand; Low hold-up volume; Membrane: Nylon; Pore Size: 0.22um; Diameter: 25mm; Nonsterile  
**09-719-5** - Pk. of 1000/\$2,325.70  
 Membrane: Nylon; Pore Size: 0.45um; Diameter: 25mm; Nonsterile  
**09-719G** - Pk. of 50/\$216.44  
 Membrane: PTFE; Pore Size: 0.22um; Diameter: 25mm; Nonsterile  
**09-719-7** - Pk. of 1000/\$1,972.73  
 Membrane: PTFE; Pore size: 0.45um; Diameter: 25mm; Nonsterile

#### Fisherbrand Wall-Mount Dispenser with 25mm Syringe Filters

**09-730-16** - Pk. of 150/\$371.27  
 Filters; Syringe; in Wall-Mount Dispenser; Fisherbrand; Wall-mount; With 25mm syringe filters; Velcro fastening strips; Reclosable tip-out drawer; Membrane Type: Nylon; Pore Size: 0.2um  
**09-730-17** - Pk. of 150/\$373.57  
 Membrane Type: Nylon; Pore Size: 0.45um  
**09-730-18** - Pk. of 150/\$266.16  
 Membrane Type: PES; Pore Size: 0.2um  
**09-730-19** - Pk. of 150/\$364.70  
 Membrane Type: PTFE; Pore Size: 0.2um  
**09-730-21** - Pk. of 150/\$380.53  
 Membrane Type: PTFE; Pore Size: 0.45um

#### Whatman Puradisc 25mm Syringe Filters



**05-713-389** - Pk. of 200/\$531.99  
 Filters; Syringe; Whatman; Puradisc; PES membrane; Nonsterile; Pore size: 0.2um; Dia.: 25mm; Polypropylene housing; Female Luer-Lok inlet; Male slip Luer outlet; For filtering aqueous solutions; Low protein binding; 200/pk.

### Flashlights

#### Koehler-Bright Star Industrial Rubber Flashlights



**17-900** - Ea./\$10.42  
 Flashlight, Rubber; Industrial; Bright Star; 7-3/4 in. L; Impact resistant; Chemical resistant; Green; Tufflex lens; Ribbed grip; Extra-bright krypton bulb

#### Pelican MityLite Magnum Flashlights



**19-034-486** - Ea./\$26.35  
 Flashlight; Pelican MityLite Magnum; Black; 2 AA; Unbreakable, chemical-resistant Xenoy resin; Length: 5-1/8 in. (13cm); Watertight to 500 ft. (152m)

### Streamlight ProPolymer Flashlights



**19-819-836** - Ea./\$29.00  
 Flashlight; Streamlight ProPolymer; Yellow; Operates up to 4 hours on 2-AA batteries; 6 in. Long; Wt: 3.7 oz.; Dual switch for constant-stream or blink; Rubber face cap is impact/shock resistant; Xenon bulb; Helmet clamps are available

### Flasks

#### Cell Culture Flasks

#### Wheaton MantaRay Single-Use Spinner Flasks



**22-288-528** - Cs. of 1/\$67.55  
 Spinner Flasks; MantaRay Single-Use; Wheaton; Built-in stirrer; Working volume 400 to 1000mL; Case of 1  
**22-288-529** - Cs. of 4/\$222.03  
 Working volume 400 to 1000mL; Case of 4

### Distilling Flasks

#### Kontes Distillation Flasks



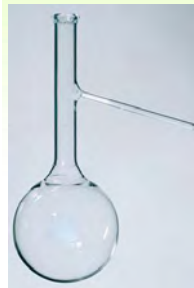
**K213100-5024** - Ea./\$91.57  
 Flask; Distillation; Capacity: 500mL; standard taper Joint No.: 24/40; Modified Kjeldahl shape  
**Suggested for ASTM Method: D4951**

#### Pyrex 25 to 1000mL Distilling Flasks



**10-140G** - Cs. of 1/\$32.96  
 Flask; Distillation; Round Bottom; Vial Mouth; 500mL; Stopper No.: 4; Contains side arm at 75 deg. angle  
**Suggested for ASTM Method: D1160**

#### Pyrex 250mL Saybolt Flask



**10-150** - Cs. of 6/\$680.68  
 Flask; Distillation; Saybolt; Pyrex Round Bottom; 250mL; Vapor tube placed at 75 deg. angle in middle of neck; For distillation of gas oils

## Erlenmeyer Flasks

### Fisherbrand Covered Lead Flask Rings



**05-8697** - Ea./\$25.46  
Lead Ring for Flask, Flask Accessory, Fisherbrand; Chemical-resistant coating. Stabilize Erlenmeyer flasks sizes 500 to 2000mL immersed in water baths. Inside Diameter: 2-1/8 in. (56mm). Reduces breakage/spilling.

### Kimax Reinforced Beaded Top Flasks



**10-039F** - Pk. of 12/\$66.37, Cs. of 4 Pk./\$193.92  
Flasks, Erlenmeyer, Glass, w/out Stopper; Kimax; Capacity: 250mL; Stopper No.: 6; Durable white enamel capacity scale  
**Suggested for ASTM Methods: D512, D2500, D1613**

### Nalgene Polymethylpentene Erlenmeyer Flasks with Caps



**10-042-5E** - Pk. of 4/\$79.38, Cs. of 3 Pk./\$158.76  
Flasks, Erlenmeyer, Plastic; Nalgene; Capacity: 250mL; Closure Size: 38mm; PMP; With polypropylene screw cap; Autoclavable  
**Suggested for ASTM Methods: D1613, D512, D2500**

### Pyrex Reinforced Tooled Top Flasks



**10-040A** - Cs. of 12/\$88.93  
Flask; Erlenmeyer; Glass; 10mL; Thick walls; Durable white enamel marking spot; Contains reinforced tooled top  
**Suggested for ASTM Method: D4530**  
**10-040B** - Pk. of 12/\$77.37, Cs. of 4 Pk./\$225.91  
25mL  
**Suggested for ASTM Method: D4530**  
**10-040C** - Pk. of 12/\$75.64, Cs. of 4 Pk./\$220.84  
50mL  
**Suggested for ASTM Method: D4530**

## Filtering Flasks

### Nalgene Polypropylene Flasks with Angled Tubulation



**10-182-50A** - Cs. of 1/\$17.58  
Flask, Filtering; Nalgene; Capacity: 500mL; Stopper No.: 7; Polypropylene; With Angled Tubulation; Withstand vacuum to 30 in. Hg; Autoclavable

## Volumetric Flasks

### Kimax Heavy-Duty Volumetric Flask



**10-212-7B** - Pk. of 1/\$55.16, Cs. of 6 Pk./\$254.59  
Flask, Volumetric; Heavy Duty; Wide Mouth; Glass stopper No. 19; 250mL Cap.; +/-0.12mL Tolerance; KIMAX  
**Suggested for ASTM Method: D4530**

### Pyrex Flasks with Standard Taper Stoppers



**10-210B** - Pk. of 6/\$242.88, Cs. of 2 Pk./\$354.83  
Flask, Volumetric, Class A, Pyrex; Machine-blown body; heavy-tubing neck, Sharp graduation line; With standard taper barrelhead stopper No. 9 with flat top; 50mL  
**Suggested for ASTM Method: D6584**  
**10-210C** - Pk. of 6/\$259.18, Cs. of 2 Pk./\$378.62  
100mL  
**Suggested for ASTM Methods: D1688, D3606,**  
**10-210F** - Pk. of 6/\$401.49, Cs. of 2 Pk./\$585.76  
500mL  
**10-210G** - Ea./\$85.75, Cs. of 6/\$354.76  
1000mL  
**10-210H** - Ea./\$108.52, Cs. of 4/\$298.88  
2000mL

### Pyrex Vista Volumetric Flask



**07-250-104** - Pk. of 6/\$215.31, Cs. of 2 Pk./\$314.32  
Flask; Volumetric; Class A; 250mL; PYREX Vista; Necks are tooled for standard taper glass stoppers  
**Suggested for ASTM Method: D4530**

## Funnels

### Filling Funnels

#### Fisherbrand Powder Funnels



**10-500-2** - Pk. of 6/\$29.85, Cs. of 4 Pk./\$79.58  
Funnel; Powder; Fisherbrand; Polypropylene; External ribbing prevents vapor lock; Parallel stem; Autoclavable; Top dia. x H: 105 x 103mm; Capacity: 225mL  
**10-500-3** - Pk. of 4/\$25.00, Cs. of 6 Pk./\$99.99  
Capacity: 750mL

### Filtering Funnels

#### Nalgene Buchner Polypropylene Two-Piece Funnels



**10-362E** - Ea./\$42.55, Cs. of 4/\$113.51  
Funnel, Filtering; Nalgene; Buchner; Two-piece; Polypropylene; I.D.: 130mm; For filter paper size: 110mm  
**Suggested for ASTM Method: D3606**

#### Nalgene Polypropylene Long-Stemmed and External Ridge Funnels



**10-347D** - Pk. of 12/\$59.13, Cs. of 3 Pk./\$118.25  
Funnel, Filtering; Nalgene; Polypropylene; With long stem and external ridge; Stem length: 65mm; Top Dia.: 66mm; Fits Paper of Dia.: 110mm

## Gas Detection Tube System Accessories

#### Draeger Short-Term Detector Tubes - Hexane to Nickel

**17-985-245** - Pk. of 10/\$66.97  
Tube, Detector; Draeger; Short-Term; Hydrogen Sulfide 0.5/a; No. of Detector Tubes: 10; No.: 8101461; Measuring Range: 0.5-5ppm; Gas or Vapor to Be Measured: Hydrogen Sulfide  
**17-985-248** - Pk. of 10/\$61.05  
Hydrogen Sulfide 5/b  
**17-985-249** - Pk. of 10/\$63.88  
Hydrogen Sulfide 100/a

## Glass Wool

#### Pyrex Glass Wool



**11-388** - Ea./\$117.92, Cs. of 12/\$974.73  
Glass Wool; Pyrex; 1 lb.; Fiber diameter: 8 microns; Contains minimal heavy metals; Low alkali content; Wrapped in 1/2 lb. Bags  
**Suggested for ASTM Method: D5453**

## Gloves

### Chemical Resistant Gloves

#### Ansell Redmont Gloves



**19-019-196** - Dozen/\$220.18, Cs. of 6/\$1,177.00  
Gloves, Neoprene; Ansell Redmont; 12 in. L; Heavy-duty; Dipped rough finish; Fabric lining; Curved finger; Wing thumb; Size 10  
**Suggested for ASTM Method: E1064**  
**19-019-197** - Dozen/\$267.91, Cs. of 6/\$1,346.40  
14 in. L  
**Suggested for ASTM Method: E1064**  
**19-019-199** - Dozen/\$398.17, Cs. of 3/\$1,000.56  
18 in. L  
**Suggested for ASTM Method: E1064**

### Examination Gloves

#### Safety Choice Powder-Free Nitrile Exam Gloves



**19-170-010B** - Pk. of 100/\$16.61, Cs. of 10 Pk./\$141.85  
Glove, Exam, Powder-free, Nitrile; Safety Choice; 100% Latex-free; Textured fingers; Beaded cuff resists tears and ease of donning; Odorless; Ambidextrous; Color: Blue; Single-use; Manufactured Good Manufacturing Practice (GMP); Medium  
**19-170-010C** - Pk. of 100/\$16.61, Cs. of 10 Pk./\$141.85  
Large

### Linemans Gloves

#### Salisbury Class 2 Red and Black Lineman's Gloves



**19-050-312** - Pair/\$193.13  
Gloves; Lineman's; Insulating Rubber; Class 2; Max. use voltage: 17,000 (25,500VAC); Black with red inside; Straight cuff; 14 in.; Size 10

### Temperature Resistant Gloves

#### Bel Art Scienceware Clavies Autoclave Gloves



**11-394-298** - Pair/\$41.07, Cs. of 12 Pair/\$463.36  
Gloves, Temperature resistant; Autoclave; Clavies; 18 in. long (33cm); Heat resistant up to 232 deg. C (450 deg. F); All-cotton terry cloth knit; Bright orange; Washable

## Hardhats and Caps

#### Bullard Company Tye II Helmet

**19-098-033** - Cs. of 10/\$108.35  
Helmet; Type II; Pinlock suspension; Hi-Viz; Green shell; Provides impact protection for the top front back and sides of head; Vector meets ANSI Z891-1997; Type 2; Class E G and C requirements; CSA Z94.1-1992

#### MSA Fire Helmet

**19-130-0809** - Ea./\$346.66  
Helmet, Fire; MSA; 660C; Composite; Yellow; Standard Metro; DuraGlas fiberglass shell; Removable liner; Head sizes 6-3/8 and 8-3/8 in.

#### MSA Universal Visors

**19-037-507** - Ea./\$2.91  
Visor, Replacement; Universal; For MSA headgear; Propionate; Clear; 8 x 15-1/2 x 0.06 in.

MSA V-Gard Foldback Faceshield Frames



**19-059-355** - Ea./\$14.67  
 Frames, Faceshield, Foldback; Plastic; Snap-on visor; With lockdown for standard V-Gard Caps

MSA V-Gard Protective Cap with Fas-Trac Suspension

**19-043-675** - Ea./\$15.89  
 Cap, Protective; MSA V-Gard; With Fas-Trac Ratchet Suspension, Size: Standard (6-1/2 to 8); Color: White; Standard-sized Slotted cap; With vinyl sweatband and large easy-adjustment knob

Jars

Scienceware Polypropylene Graduated Pitchers



**22-163-717** - Ea./\$11.79, Cs. of 12/\$137.45  
 Pitcher; Scienceware; 2000mL; Graduations: 100mL; Polypropylene; Molded graduations; 5.3 in top I.D.; 8.1 in. H; Chemical resistant; Shatterproof

Lab Paper

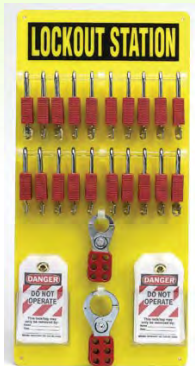
Fisherbrand Lab Graphs/Charts for Copying



**14-433-6** - Ea./\$38.65  
 Lab Paper; Fisherbrand; Lab Graph; Copy master; 22 Different graphs and charts; Bound in loose-leaf notebook; Size: 8-1/2 x 11 in.

Lockout and Tagout and Electrical Safety

Brady Ten-Lock Lockout Stations



**19-016-528** - Ea./\$437.45  
 Lockout Station; Ten-Lock; With components; Station only; 10 blue bumper padlocks; 25 'Do Not Operate' tags; Three 1 in. safety lockouts; 19 H x 12 in. W; Mounts to flat surface

Brady USA Lockout Valve Kit

**19-823-248** - Ea./\$372.93  
 Kit, Lockout; Valve; Includes: 2 - 1 to 2-1/2 in., 2 2-1/2 to 5 in. Gate Valve; 2 - Small Ball Valve; 2- Large Ball Valve; 3- Red Labeled Hasps; 2- 3/4 in., 2- 2 in. Blue Padlocks; 10 Tags; Yellow Canvas Bag

Master Lock Safety Lockout Padlocks



**18-999-1350G** - Ea./\$15.75  
 Padlock, Safety Lockout; Master Lock; Aluminum; Anodized Finish; Chrome Shackle; Cover Plate; Double-Ball Locking Mechanism; Purple; 1-1/2 W x 3/4 in. Thick; 1-1/2 L x 1/4 in. dia. Shackle

Lubricants

Dow Corning High-Vacuum Grease



**14-635-5D** - Ea./\$45.96, Cs. of 12/\$454.74  
 Grease, High Vacuum; Dow Corning; Nonmelting silicone lubricant; Temp. Range: -40 to +204 deg. C (-40 to +400 deg. F); Resists oxidation; Chemical resistant, noncarbonaceous, and low vapor pressure; 5.3 oz. tube (150g)  
**14-635-5C** - Ea./\$484.17  
 8 lb. Can

Kontes Silicone Grease



**K743204-0000** - Ea./\$10.33  
 Silicone Grease; Kontes; Chemically resistant, medium consistency silicone grease for use under more typical operating conditions; 25g; Stable from -40degC to 232degC.  
**Suggested for ASTM Method: D1160**

Microbiology Supplies

Media Additives

Oxoid Laboratory Preparations

**OxLP0037B** - Ea./\$75.26  
 Media; Oxoid Laboratory; Peptone Bacteriological; 500g

Media for Microbiology

General Laboratory Products Potato Dextrose Agar Slant

**50-821-355** - Cs. of 100/\$122.42  
 Media; General Laboratory Products, Potato Dextrose Agar Slant, 16x125 Glass Tube, 100/CS

Remel Contact and Settling Plates



**R111803** - Pk. of 10/\$113.07  
 Plates, Contact; Sterile D/E-Neutralizing Agar Irradiated; For cultivation of microorganisms with neutralization of specific chemical disinfectants; 10/Pk.  
**R111804** - Cs. of 100/\$1,856.98  
 Contact Plates, D/E-Neutralizing Agar, Gamma irradiated; 100/pk

Remel Dehydrated Media Thiogel Medium to Violet Red Bile Agar

**R455051** - Ea./\$20.15  
 Media; Tryptic Soy Broth (TSB) (Soybean Casein Digest). For the cultivation of a wide variety of fastidious microorganisms. Conforms to USP. 100g



### Remel Dehydrated Media Violet Red Bile Agar RapiDCM to YM Agar

**R4552801** - Pk. of 1/\$227.37  
Media; Violet Red Bile Agar. RapiDCM\*. RapiDCM\* are preweighed pouches of dehydrated culture media. Pouch is heavy duty white foil, heat sealed for maximum protection. Packaged 20 pouches per package. 20/Pk. 1L/Pouch

## Microplates - Genomic

### Eppendorf 96-Well twin.tec PCR Plates



**E951020460** - Cs. of 25/\$102.00  
Microplate, Genomics, 96-well, Eppendorf twin.tec PCR Plate, 96-well microplate, Extra-thin polypropylene wells, Polycarbonate frame, skirted, blue compatible with high throughput or manual systems, 25 plates per case

**E951020362** - Cs. of 25/\$102.00  
Blue; Semi-skirted

**E951020401** - Cs. of 25/\$102.00  
Clear; Skirted

**E951020303** - Cs. of 25/\$102.00  
Clear; Semi-skirted

**E951020443** - Cs. of 25/\$102.00  
Green; Skirted

**E951020346** - Cs. of 25/\$102.00  
Green; Semi-skirted

**E951020486** - Cs. of 25/\$102.00  
Red; Skirted

**E951020389** - Cs. of 25/\$102.00  
Red; Semi-skirted

**E951020427** - Cs. of 25/\$102.00  
Yellow; Skirted

**E951020320** - Cs. of 25/\$102.00  
Yellow; Semi-skirted

### Eppendorf twin.tec 384-Well PCR Plates



**E951020737** - Ea./\$201.69  
Microplate, Genomics, twin.tech 384-well PCR plates; Color: Blue; Clear polypropylene wells; Rigid polycarbonate deck and skirt; 25/pack

**E951020702** - Ea./\$201.69  
Clear

**E951020729** - Ea./\$201.69  
Green

**E951020745** - Ea./\$201.69  
Red

**E951020711** - Ea./\$201.69  
Yellow

## Molecular Biology Reagents and Kits, DNA Extraction and Purification

### 5 PRIME ArchivePure DNA Kit: Plant

**FP2301100** - Ea./\$38.19  
DNA Purification Kit; ArchivePure; 5 PRIME; Plant Tissue; Inc. solutions for cell lysis 3mL, protein precipitation 1mL, DNA hydration 1mL, Rnase A 15uL; Sample Size: 200mg

### Promega CelluACE XG System

**PRFF3800** - Ea./\$191.25  
DNA Extraction and Purification Kit; CelluACE XG System; Promega; Digest plant leaf tissue of 6 to 8mm punch for DNA purification; Digest time 2 to 4 hours; 1000 tests

### Promega Wizard Magnetic 96 DNA Plant System

**PRFF3760** - Ea./\$398.86  
DNA Extraction and Purification Kits; Wizard Magnetic 96 DNA Plant; Promega; Compatible with robotic platforms and manual use; 2 x 96 preps

**PRFF3761** - Ea./\$782.38  
4 x 96 preps

**PRA3811** - Ea./\$81.82  
Replacement Wash Buffer

### Whatman GenSpin Plant DNA Purification Kit



**05-713-925** - Pk. of 4/\$260.21  
Plant DNA Purification Kit; GenSpin; For the rapid preparation of dsDNA from plant material for PCR analysis; 50 preps; Includes GenSpin Purification Tubes, GenSpin Collection Tubes, Homogenization Buffer, Wash Reagent, and Rinse Reagent

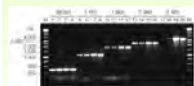
## PCR Reagents and Kits

### 5 PRIME HotMaster Mix

**FP2200400** - Ea./\$73.73  
PCR Enzymes; HotMasterMix; 5 PRIME; Inc. Taq polymerase, preoptimized Mg2sup+ buffer, nucleotides in one tube; 100 rxns

**FP2200410** - Ea./\$591.39  
1000 Rxns

### Promega GoTaq DNA Polymerase

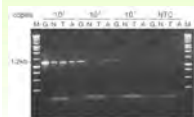


**PRM3001** - Ea./\$28.00  
Reagent, PCR; DNA Polymerase; DNA Polymerase, 1 x 1mL 5X Colorless = in. 417 in. O = in. 2902616 in. L = in. 10 in.

**PRM3005** - Ea./\$123.00  
500U

**PRM3008** - Ea./\$546.00  
2500U

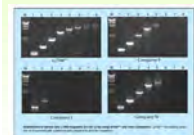
### Promega GoTaq Green Master Mix



**PRM7122** - Ea./\$38.00  
Reagent, PCR; Green Master Mix; 100 rxns; Includes 2 x 1250microl. 2X Green Master Mix and 2 x 1.25mL Nuclease-free water

**PRM7123** - Ea./\$331.00  
1000 reactions

### Takara e2TAK DNA Polymerase



**TAKRF001B** - Ea./\$235.04  
PCR Enzyme Kits; e2TAK DNA polymerase; Takara; Yields product length 8kb; DNA polymerase 100uL, 5X Mg2sup+ buffer 2 x 1mL, dNTP 2.5mM each 800uL; 5 x 200 rxns

**TAKRF001C** - Ea./\$988.00  
25 x 200 rxns

**TAKRF001A** - Ea./\$54.08  
200 rxns

### Takara PrimeSTAR HS DNA Polymerase



**TAKR010A** - Ea./\$226.95  
PCR Enzyme; PrimeSTAR HS DNA Polymerase; 200 rxns; Kit Contents: PrimeSTAR HS DNA Polymerase, 5X PrimeSTAR Buffer (with Mg2sup+), dNTP mixture

**TAKR010B** - Ea./\$800.70  
400 reactions

### Takara PrimeSTAR HS DNA Polymerase with GC Buffer and Premix



**TMBR040A** - Ea./\$179.99  
PCR Enzyme; PrimeSTAR HS DNA Polymerase with GC Buffer; 100 rxns; Antibody mediated Hot-Start; Low error rate of 25 per 304,000bp

**TMBR044A** - Ea./\$232.44  
250U

**TMBR044B** - Ea./\$816.40  
1000U

# Pipet Tips

## Universal Pipetter Tips

### Fisherbrand Redi-Tip Pipet Tips



- 02-707-505** - Pk. of 960/\$81.40, Cs. of 5 Pk./\$360.52  
Pipet Tips; Fisherbrand; Type: Nonsterile; Volume, Length, 2 in. , A; Volume: 1-200uL; Packaging: 10 racks of 96 each  
**Suggested for ASTM Method: D2500**
- 02-707-500** - Pk. of 1000/\$69.03, Cs. of 10 Pk./\$610.51  
General Purpose; 1-200uL; Yellow; Bulk Pack
- 02-707-502** - Pk. of 960/\$95.92, Cs. of 5 Pk./\$424.45  
General Purpose; Volume: 1-200uL; Hinged rack; 10 x 96
- 02-707-501** - Pk. of 960/\$75.35, Cs. of 5 Pk./\$333.40  
General Purpose; Volume: 1-200uL; Yellow; Nonsterile; 10 racks of 96 each
- 02-707-503** - Pk. of 480/\$34.78, Cs. of 10 Pk./\$297.26  
General-Purpose; Nonsterile; Volume: 1-200uL volume, 2 in. long; Yellow; Packaging: Rack Inserts: 5 x 96
- 02-707-119** - Pk. of 960/\$92.26, Cs. of 5 Pk./\$408.75  
General Purpose; Volume: 1-300uL; Lift-off rack, 10 x 96; Natural; Sterile  
**Suggested for ASTM Method: D4530**
- 02-707-508** - Pk. of 1000/\$77.82, Cs. of 5 Pk./\$343.77  
General-Purpose; Volume, length: 101-1000uL, 2-3/4 in.; Color: blue; Packaging: HR, 10 x 100; 1000/PK
- 02-707-507** - Pk. of 1000/\$70.13, Cs. of 10 Pk./\$620.13  
General-Purpose; Volume/Length: 101-1000 microliter, 2-3/4 in.; Color: blue; Packaging: Bulk
- 02-707-510** - Pk. of 1000/\$74.30, Cs. of 5 Pk./\$328.29  
General Purpose; 201-1000uL; Nonsterile
- 02-707-509** - Pk. of 1000/\$101.26, Cs. of 5 Pk./\$760.48  
General Purpose; 201-1000uL; Sterile
- 02-681159** - Pk. of 960/\$88.18, Cs. of 5 Pk./\$390.16  
Natural; Volume: 0-300uL; Packaging Lift off Rack Sterile  
**Suggested for ASTM Method: D6584**
- 02-681-157** - Pk. of 1000/\$47.05, Cs. of 10 Pk./\$403.43  
Reference; 0 to 300uL; Natural; Bulk pack  
**Suggested for ASTM Method: D4530**
- 02-681-158** - Pk. of 960/\$77.82, Cs. of 5 Pk./\$344.07  
Reference; 0-300uL; Natural; Lift-off rack, 10 x 96  
**Suggested for ASTM Method: D5501**
- 02-707-504** - Pk. of 1000/\$69.03, Cs. of 10 Pk./\$607.20  
Reference Tips; Volume: 1-200uL volume, 2 in. long; Natural; Packaging: Bulk Pack
- 02-707-506** - Pk. of 480/\$39.33, Cs. of 10 Pk./\$338.37  
Reference Tips; Volume: 1-200uL volume, 2 in. long; Natural; Packaging: Rack Inserts, 5 x 96  
**Suggested for ASTM Method: D445**
- 02-681-454** - Pk. of 1000/\$61.60, Cs. of 10 Pk./\$526.90  
Reference; 1 to 300uL; Natural; Bulk pack  
**Suggested for ASTM Method: D4530**
- 02-681-455** - Pk. of 960/\$80.60, Cs. of 5 Pk./\$356.25  
Reference; 1 to 300uL; Natural; Lift-off rack, 10 x 96
- 02-681-164** - Pk. of 1000/\$124.21, Cs. of 5 Pk./\$541.29  
Reference; 101-1000uL; Blue; Lift-off rack
- 02-681-166** - Pk. of 1000/\$97.95, Cs. of 5 Pk./\$435.26  
Reference; 101-1000uL; Blue; Stack rack, 2 x 500
- 02-681-169** - Pk. of 1000/\$128.65, Cs. of 5 Pk./\$554.63  
Reference; 101-1000uL; Natural; Lift-off rack; LR, 10 x 100  
**Suggested for ASTM Method: D6584**
- 02-681-170** - Pk. of 1000/\$114.99, Cs. of 5 Pk./\$516.09  
Reference; 101-1000uL; Natural; Lift-off rack; LRS, 10 x 100  
**Suggested for ASTM Method: D6584**
- 02-681-171** - Pk. of 1000/\$92.45, Cs. of 5 Pk./\$410.77  
Reference; 101-1000uL; Natural; Stack rack, 2 x 500  
**Suggested for ASTM Method: D6584**
- 02-681-146** - Pk. of 960/\$94.65, Cs. of 5 Pk./\$418.77  
Reference; Graduated; Volume, length: 1-2000uL, 2 in.; Natural; Packaging: LR, 10 x 96  
**Suggested for ASTM Method: D664**
- 02-681-147** - Pk. of 960/\$96.25, Cs. of 5 Pk./\$425.70  
Reference; Graduated; Volume, length: 1-2000uL, 2 in.; Natural; Packaging: LRS, 10 x 96
- 02-681-150** - Pk. of 1000/\$86.98, Cs. of 10 Pk./\$769.64  
Reference; Graduated; Volume, length: 1-2000uL, 2 in.; Natural; Packaging: SR, 5 x 200

- 02-681-151** - Pk. of 1000/\$46.75, Cs. of 10 Pk./\$399.57  
Reference; Graduated; Volume, length: 1-200uL, 2 in.; Yellow; Packaging: BP
- 02-681-154** - Pk. of 960/\$94.65, Cs. of 5 Pk./\$417.66  
Reference; Graduated; Volume, length: 1-200uL, 2 in.; Yellow; Packaging: HR, 10 x 96
- 02-681-155** - Pk. of 960/\$96.25, Cs. of 5 Pk./\$426.99  
Reference; Graduated; Volume, length: 1-200uL, 2 in.; Yellow; Packaging: HRS, 10 x 96
- 02-681-152** - Pk. of 960/\$90.95, Cs. of 5 Pk./\$402.45  
Reference; Graduated; Volume, length: 1-200uL, 2 in.; Yellow; Packaging: LR, 10 x 96
- 02-681-156** - Pk. of 1000/\$86.96, Cs. of 10 Pk./\$766.07  
Reference; Graduated; Volume, length: 1-200uL, 2 in.; Yellow; Packaging: SR, 5 x 200
- 02-681-163** - Pk. of 1000/\$53.33, Cs. of 10 Pk./\$454.68  
Reference; Volume, length: 101-1000uL, 2-3/4 in.; Blue; Packaging: BP
- 02-681-165** - Pk. of 1000/\$114.99, Cs. of 5 Pk./\$512.51  
Reference; Volume, length: 101-1000uL, 2-3/4 in.; Blue; Packaging: Lift-Off Rack; Sterile; 10 x 96
- 02-681-168** - Pk. of 1000/\$50.22, Cs. of 10 Pk./\$428.89  
Reference; Volume, length: 101-1000uL, 2-3/4 in.; Natural; Packaging: BuLk Pack  
**Suggested for ASTM Method: D5453**
- 02-681-457** - Pk. of 960/\$96.30, Cs. of 5 Pk./\$426.99  
Reference; Volume, Length: 1-200uL, 2 in.; Natural; Packaging: HRS, 10 x 96  
**Suggested for ASTM Method: D4951**
- 02-707-511** - Pk. of 1000/\$101.26, Cs. of 5 Pk./\$760.48  
Universal; 101-1000uL; Nonsterile
- 02-681-153** - Pk. of 960/\$92.90, Cs. of 5 Pk./\$410.57  
Universal; Volume/length: 1-200uL, 2 in.; Yellow; Packaging: LRS, 10 x 96
- 02-681-438** - Ea./\$3.13, Cs. of 50/\$113.85  
Empty Rack for 1000uL tips
- 02-681-436** - Cs. of 96/\$219.25  
Empty Rack for 200uL tips

### Eppendorf epTIPS, Filter Tips



- 05-403-16** - Cs. of 960/\$131.00  
Tips, Pipet; epTIPS; PCR Filtering; Drop contour design; Finely tapered and extended; Fine graduations; Soft, flexible tip cone; Volume: 0.1-10uL, large; Racks, 10 x 96  
**Suggested for ASTM Method: D4951**
- 05-403-17** - Cs. of 960/\$131.00  
Volume: 2-20uL; Packaging: Racks, 10 x 96  
**Suggested for ASTM Method: D4951**
- 04-987-420** - Cs. of 960/\$121.00  
Volume: 2-100uL; 10 racks of 96 pipet tips  
**Suggested for ASTM Method: D4951**
- 05-403-18** - Cs. of 960/\$121.00  
Volume: 2-100uL; Racks, 10 x 96  
**Suggested for ASTM Method: D4951**
- 05-403-120** - Pk. of 100/\$60.00  
Volume: 10mL; Indiv. Wrapped 100  
**Suggested for ASTM Method: D4951**
- 05-403-19** - Cs. of 960/\$121.00  
Volume: 20-300uL; Packaging: Racks, 10 x 96  
**Suggested for ASTM Method: D4951**
- 05-403-20** - Cs. of 960/\$131.00  
Volume: 50-1000uL; Racks, 10 x 96
- 04-987-421** - Cs. of 1/\$72.00  
Volume: 100-5000uL  
**Suggested for ASTM Method: D4951**

## Pipets

### Disposable Pipets

#### Fisherbrand Blood Bank Disposable Transfer Pipets



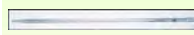
- 13-711-5AM** - Pk. of 500/\$46.73, Cs. of 10 Pk./\$356.01  
Pipets; Transfer; Fisherbrand; Disposable; Blood bank; Polyethylene; One-piece; LDPE, 5-3/4 in. (14.6cm) long; 5mL capacity; 2.0mL bulb draw; 24 to 26 drops/mL; Unbreakable

### Fisherbrand Disposable Graduated Transfer Pipets



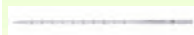
**13-711-9AM** - Pk. of 500/\$45.00, Cs. of 10 Pk./\$335.26  
Pipets; Transfer; Fisherbrand; Disposable; 0.25mL graduations; Polyethylene; One-piece; 5.8mL capacity; Draw 3.4mL per squeeze; 6 in. (15.4cm) long; Nonsterile  
**13-711-9BM** - Pk. of 500/\$77.00, Cs. of 8 Pk./\$510.62  
Transfer Pipet; 5.8mL; Sterile 10/bag  
**13-711-9CM** - Pk. of 500/\$73.00, Cs. of 8 Pk./\$454.15  
Transfer Pipet; 5.8mL; Sterile 20/bag

### Fisherbrand Reusable Cotton-Plug Top Serological Pipets



**13-675K** - Cs. of 12/\$99.69  
Pipet, Serological; Fisherbrand; Cotton plug top; Reusable; Borosilicate glass; Permanent amber markings; Tuf-Temp treated; Calibrated To Deliver/Blow Out; Capacity: 5 in 1/10mL; Accuracy: +/-0.04mL; Blue; Standard Pk.  
**13-675M** - Cs. of 12/\$105.87  
Capacity: 10 in 1/10mL; Accuracy: +/-0.06mL; Orange; Standard Pk.  
**13-675N** - Cs. of 12/\$201.26  
Capacity: 25 in 1/10mL; Accuracy: +/-0.10mL; White; Standard Pk.

### Fisherbrand Standard-Top Serological Pipets



**13-675F** - Cs. of 12/\$97.92  
Pipet, Serological; Fisherbrand; Standard-top; Borosilicate glass; Permanent amber markings; Tuf-Temp treated; Calibrated To Deliver/Blow Out; Capacity: 1 in 1/100mL; Accuracy: +/-0.02mL; Yellow  
**13-675H** - Cs. of 12/\$101.23  
Capacity: 2 in 1/10mL; Accuracy: +/-0.02mL; Green

### Fisherbrand Narrow-Stem Disposable Transfer Pipets



**13-711-6M** - Pk. of 500/\$54.39, Cs. of 10 Pk./\$431.49  
Pipets, Transfer; Fisherbrand; Disposable; Narrow stem; Capillary tip; One-piece; 5-7/8 in (15cm) long; Capacity: approximately 4.6mL; Single squeeze draws up to 3.3mL

## Plates

### CoorsTek Spot Plates



**13-745-12A** - Ea./\$19.64, Cs. of 24/\$376.92  
Plate, Color Test: CoorsTek; L x W: 3-5/8 x 1-1/4 in.; No. of Cavities: 3; Glazed except for bottom surface

## Samplers

### Bel-Art Long-Handled Dippers



**22-111-153** - Ea./\$52.03, Cs. of 12/\$605.75  
Sampling Utensils, Dipper; Bel-Art; 16 oz. (473mL); Handle length: 3 ft. (91cm); HPDE

### Fisherbrand Standard Disposable Transfer Pipets

**13-711-7M** - Pk. of 500/\$45.22, Cs. of 10 Pk./\$358.99  
Pipets, Transfer; Fisherbrand; Disposable; Standard; One-piece; Single squeeze draws up to 3.2mL; 5-7/8 in (15cm) long; Capacity: 7.7mL; Nongraduated

## Reusable Pipets

### Fisherbrand Reusable Class A Borosilicate Glass Volumetric Pipets



**13-650-2B** - Cs. of 12/\$124.95  
Pipets, Volumetric; Fisherbrand; Reusable; Class A; Borosilicate Glass; Permanent amber markings; Tuf-Temp-treated tempered tips; Calibrated To Deliver; Type: Standard; Capacity: 1mL; Accuracy: +/-0.006mL; Orange  
**Suggested for ASTM Methods: D3606, D512**  
**13-650-2C** - Cs. of 12/\$124.95  
Standard; 2mL  
**Suggested for ASTM Methods: D3606, D512**  
**13-650-2F** - Cs. of 12/\$124.95  
Capacity: 5mL  
**Suggested for ASTM Methods: D3606, D512**  
**13-650-2L** - Cs. of 12/\$135.87  
Standard; Capacity: 10mL  
**Suggested for ASTM Methods: D3606, D512**  
**13-650-2P** - Ea./\$18.98, Cs. of 12/\$194.66  
Standard; Capacity: 25mL  
**Suggested for ASTM Methods: D3606, D512**  
**13-650-2S** - Ea./\$25.01, Cs. of 12/\$256.52  
Standard; 50mL  
**Suggested for ASTM Methods: D3606, D512**

## Signs

### Brady Danger: Confined Space -- Enter By Permit Only Signs

**19-035-559** - Ea./\$10.79  
Sign; Brady; Legend: Danger Confined Space Enter By Permit Only; L x W: 7 x 10 in.; Material: Self-Sticking Vinyl

### Brady Quik-Align Gothic Style Kit

**19-016-173** - Ea./\$330.98  
Sign, Quik-Align, Gothic Style Kit, Die-cut, Pressure-sensitive, Fade-resistant, Vinyl, Indoor/Outdoor, Includes (20) capital letters A, E, I, L, N, O, R, S, T, numerals 0-9/(10) remaining letters/(5) dollar sign, ampersand, and punctuation

### Brady Danger: High Voltage (horizontal) Signs



**19-102-032** - Ea./\$10.79  
Sign; Brady; Electrical Hazard; Legend: Danger: High Voltage (horizontal); L x W: 7 x 10 in.; Material: Self-Sticking

Brady Danger: Flammable... Signs



**19-035-959** - Ea./\$14.83  
Sign; Brady; Legend: Danger Flammable Keep Fire Away; L x W: 10 x 14 in.; Material: Self-Sticking Vinyl

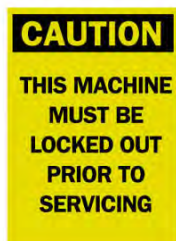
**FLAMMABLE**  
KEEP FIRE AWAY

Brady Fire Extinguisher Signs



**17-047-1** - Ea./\$14.83  
Sign; Brady; Legend: Fire Extinguisher; L x W: 12 x 9 in.; Material: Self-Sticking

Brady Caution: This Machine Must be Locked Out... Signs



**19-003-451** - Ea./\$5.60  
Sign; Brady; Caution: This Machine Must be Locked Out Prior To Servicing; L x W: 7 x 5 in.; Material: Self-Sticking

Brady USA Caution Signs

**19-807-200** - Ea./\$30.76  
Sign, Caution; Brady USA; 'CONVEYOR'; 10 x 14 in.

Brady Warning: Do Not Operate Machine... Signs



**19-036-157** - Ea./\$10.88  
Sign; Brady; (WARNING Do Not Operate Machine without Guards in Place); L x W: 7 x 10 in.; Material: Self-Sticking Vinyl

Brady Caution: Hard Hats Required Signs



**19-036-255** - Ea./\$14.83  
Sign, Safety; Reads: "Caution: Hard Hats Required"; L x W: 10 x 14 in.; Material: Self-Sticking

Brady Caution: Hearing Protection Required Signs



**19-003-401** - Ea./\$10.79  
Sign; Brady; Legend: Caution Hearing Protection Required; L x W: 7 x 10 in.; Material: Self-Sticking Vinyl

Brady Caution: Personal Protective Clothing... Signs



**19-035-682** - Ea./\$14.83  
Sign; Brady; Legend: Caution Personal Protective Clothing is to be Work at All Times When Handling Chemical; L x W: 10 x 14 in.; Material: Self-Sticking Vinyl

## Spatulas

Fisherbrand Handi-Hold Microspatula



**21-401-15** - Pk. of 12/\$82.83, Cs. of 12 Pk./\$862.36  
Spatula; Fisherbrand Handi-Hold; Length: 5-1/2 in.; Spoon-like stainless-steel blade; Cushion-grip vinyl handle; Blade: 3/4L x 3/16 in.W; Pack of 12

Bel-Art Scienceware Ellipso-Spoon Spatulas



**14-375-56** - Ea./\$28.75, Cs. of 12/\$328.55  
Spatula, General Purpose; Ellipso-Spoon; 8-1/4 in. L; Stainless steel; Flameproof; Autoclavable; Impervious to boiling water

## Specimen Collection

Fisher Scientific Twirl'em Sample Bag

**01-815-30** - Pk. of 500/\$143.37, Cs. of 2 Pk./\$245.08  
Bag, Sample; Twirl'em; Sterile; Clear; Regular Tabs; Closure with 2 round wires; 4-1/2 x 15 in.; 3mil thick; 36 oz.; Virgin Polyethylene tubing; Tubing extruded at 240 deg. C

Fisherbrand Color-Coded Capillary Tubes



**22-362-574** - Pk. of 200/\$25.64, Cs. of 5 Pk./\$106.81  
Tubes, Capillary, Fisherbrand; Microhematocrit; Plain; 75mm+/-0.02mm L; 70microL; Blue; low-taper, soft glass; ends sealed by flame; color-coded tube tips and labels; 200 tubes per vial

## Specimen Containers

Hedwin Cubitainer Insert Plastic Reusable Sample Containers



**14-375-115B** - Cs. of 128/\$341.43  
Containers, Insert; Plastic; Cubitainer; For corrosive and noncorrosive chemicals, foods and drugs; Semirigid polyethylene; Screw cap, with 1-1/2 in. (38mm) opening; Can be nested; Meet all applicable FDA specifications; 1 qt. (946mL)  
**14-375-115A** - Cs. of 160/\$861.28  
1 gal. (3.8L)

## Supports

Fisher Scientific Support Stand

**14-670C** - Ea./\$64.16  
Support Stand; Fisher Scientific; Tough Rectangular Epoxyn resin base; Nickel-plated steel support rod; Base Size: 6 x 9 in.; Rod Length: 24 in.; Rod Diameter: 7/16 in.

## Syringes

### Autosampler Syringes

National Scientific Precision Target Large Volume Syringes



**03-377-230** - Ea./\$43.53  
Syringes, Gas tight; Large Volume; Precision Target; Use for macro volume sampling; Gas and liquid tight; PTFE-tipped stainless-steel plungers; Gauge: 22s; Length: 51mm; Point: bevel; Type: Fixed needle; Capacity: 1mL  
**03-377-238** - Ea./\$50.92  
Fixed needle; Capacity: 5mL  
**03-377-242** - Ea./\$55.23  
Fixed needle; Capacity: 10mL

## National Scientific Precision Target Series N Fixed Needle Syringes



**03-377-203** - Pk. of 6/\$211.61  
Syringe, Autosampler; National Scientific; Precision Target; Fixed Needle; Series N; 5microL Capacity; 26s Gauge; 51mm Length; Bevel Point; Pack of 6; For use with JADE and Merlin Septumless Injectors, Split and Splitless Mode

**03-377-201** - Ea./\$33.14  
5uL Capacity; 26s Gauge; 51mm Length; Bevel Point

**03-377-204** - Ea./\$25.40  
10uL Capacity; 26s Gauge; Bevel-shaped tip

**03-277-205** - Pk. of 6/\$136.41  
10uL Capacity; 26s Gauge; Bevel Point

**03-377-211** - Ea./\$36.03  
100uL Capacity, 22s Gauge, 51mm Length, Bevel Point

**03-377-207** - Ea./\$31.19  
25uL Capacity; 22s Gauge; 51mm Length; Bevel Point

## Gas Tight Syringes

### National Scientific Precision Target Gas Tight Syringes



**03-377-246** - Ea./\$44.51  
Syringe, Gas Tight; National Scientific; Precision; Fixed Needle; 5uL Capacity; 26s Gauge; Bevel-Shaped Point; 51mm Length; PTFE-Tipped Stainless-Steel Plunger

**03-377-248** - Ea./\$36.03  
Fixed Needle; 10uL Capacity; 26s Gauge; Bevel-Shaped Point

**03-377-251** - Ea./\$38.11  
Fixed Needle; 25uL; 22 Gauge; Bevel-shaped Point

**03-377-254** - Ea./\$40.69  
Fixed Needle; 50uL Capacity; 22s Gauge; Bevel-Shaped Point

**03-377-258** - Ea./\$43.85  
Fixed Needle; 100uL Capacity; 22s Gauge; Bevel-Shaped Point

**03-377-266** - Ea./\$43.85  
Fixed Needle; 500uL Capacity; 22s Gauge; Bevel-Shaped Point

## General Purpose Syringes

### AirTite Norm-Ject Syringes without Needles



**14-817-32** - Pk. of 100/\$38.40, Cs. of 8 Pk./\$262.53  
Syringe, No needle, 20cc, Sterile, AirTite Norm-Ject; use in gas/liquid chromatography, Polypropylene barrel/ Polyethylene plunger, Eccentric Luer-Slip tip, No latex, synthetic rubber, silicone oil or styrene, Individually wrapped

**Suggested for ASTM Method: D445**

### BD Bulk Sterile Packaged Syringes

**14-820-19** - Cs. of 120/\$70.31  
Syringe, Convenience Tray; 20mL; Sterile; Disposable; In Convenience Tray (10 syringes); Bulk packaged

**Suggested for ASTM Method: E1064**

### BD Disposable Needleless Syringes

**14-823-2A** - Pk. of 100/\$21.67, Cs. of 4 Pk./\$74.10  
Syringe, General-Purpose; Becton Dickinson; Disposable; Without Needle; With Tip Shield; Capacity: 10mL; Point Style: Luer-Lok; 1/5mL Graduations

### Chemglass Polypropylene Syringes

**CG308011** - Ea./\$29.00  
Syringe, General purpose; Chemglass; 50mL; Polypropylene, Offset Tip Style, 30pk; Latex free and contain no rubber or silicone; Individually sterile strip packed

**Suggested for ASTM Method: E1064**

### Hamilton Model 7000 Modified Microliter Syringes



**14-824-21** - Ea./\$80.73  
Syringe, General purpose; Hamilton; Capacity: 5.0uL; Needle gauge: 24; Needle length: 2-3/4 in.; Model: 7105KH

**Suggested for ASTM Method: E1064**

## Hamilton Series 600/700 Standard Microliter Syringes



**14-813-81** - Ea./\$62.41  
Syringe; Luer-Tip; Capacity: 500uL; Model: 750; Ground-glass syringe barrel with male Luer taper; accepts most hypodermic needles and autoclavable when disassembled; Needle not included

**Suggested for ASTM Method: D6584**

**14-813-38** - Ea./\$57.12  
Removable-Needle; 50uL; 22s Gauge

**Suggested for ASTM Method: D6584**

**14-813-53** - Ea./\$62.41  
Removable-Needle; 100uL; 22s Gauge; Point Style 2

**Suggested for ASTM Method: D6584**

**14-813-65** - Ea./\$60.29  
Luer-Tip Syringe; Needle Not Included; 250uL

**Suggested for ASTM Method: D6584**

## Hamilton Syringes for Life Science Applications

**14-815-333** - Ea./\$172.99  
Syringe, General purpose; Hamilton; Capacity: 0.5uL; Needle gauge: 32; Needle length: 4 in.; Model: 7000.5KHOC

**Suggested for ASTM Method: D3606**

## Mettler Toledo Syringes

**NC9185558** - Ea./\$55.00  
Syringe; 10cc syringes; 100 pack

**Suggested for ASTM Method: D4052**

## SGE Series II Standard Syringes



**SG-003000** - Ea./\$41.86  
Syringe; General Purpose; Type: Fixed-Needle; Capacity: 25uL; Standard syringes with anti-roll flange and needles

## Special Application Syringes

### BD Reusable Yale Tuberculin Syringes

**14-826-36** - Ea./\$77.20  
Syringe, Tuberculin; BD Yale; With Glass Luer Tip; 2mL; Graduations: 1/20mL, 1/2minim (dual scale); Annealed glass; Ground barrels and plungers; Autoclavable

**Suggested for ASTM Method: D4052**

## Tags

### Fisherbrand Write-On Metal Tags



**06-662-57** - Pk. of 48/\$38.72  
Tags; Fisherbrand Write-On; Aluminum; Write on with ordinary ballpoint pen; 3-1/8 x 1-3/8 in. (79 x 35mm); With wires

## Tape, Labels, and Labeling Tapes

### Fisherbrand White Autoclavable Tape



**15-903** - Ea./\$5.42  
Tape, Autoclave; Fisherbrand; White with white steam-sensitive stripes that turn black during sterilization; No residue; Size: 1/2 in. W x 60 yd. L

### Brady GlobalMark Permanent Vinyl Tapes: 2 1/4W x 100'L

**19-201-093** - Ea./\$260.71  
Tape, Red, 100ft. (30.5m) Roll, Vinyl, 2-1/4 in. (57mm), Material No. B-580 Indoor/Outdoor Marking Film, For Industrial Label Maker Products

**19-201-075** - Ea./\$260.71  
White, 2-1/4 in. (57mm)

**19-201-092** - Ea./\$260.71  
Yellow, 2-1/4 in. (57mm)

Brady GlobalMark Permanent Vinyl Tapes: 4W x 100'L

- 19-201-077** - Ea./\$391.12  
Tape, Red, 100ft. (30.5mm) Roll, Vinyl, 4 in. (101.6mm), Material No. B-580, Indoor/Outdoor Marking Film Type, For Industrial Label Maker Products
- 19-201-069** - Ea./\$391.12  
White, 4 in. (101.6mm)
- 19-201-089** - Ea./\$391.12  
Yellow, 4 in. (101.6mm)

Brady GlobalMark Single-Color Printer Ribbons

- 19-201-216** - Ea./\$182.86  
Printer Ribbon; Globalmark; Single-Color; Smudge-Proof; Black
- 19-201-220** - Ea./\$182.86  
Green
- 19-201-217** - Ea./\$182.86  
White

Brady ID PAL Labeling Tool Labels



- 11-878-06** - Ea./\$23.32  
Label; LabPal; Durable, chemical-, and solvent-resistant; 21 ft.L x 3/8 in.W (6.4m x 1cm) (for 0.6mL vials); White Glossy Vinyl; Recommended for: F
- 11-878-07** - Ea./\$55.64  
21 ft.L x 3/8 in.W (6.4m x 1cm); White Matte Nylon Cloth
- 11-878-09** - Ea./\$22.10  
21 ft.L x 1/2 in.W (6.4m x 1.3cm); Clear Glossy Polyester
- 11-878-10** - Ea./\$43.35  
21 ft.L x 1/2 in.W (6.4m x 1.3cm) (for 1.5mL vials); White Vinyl
- 11-878-08** - Ea./\$41.08  
21 ft.L x 1/2 in.W (6.4m x 1.3cm); White Glossy Polyester
- 11-878-11** - Ea./\$29.93  
21 ft.L x 1/2 in.W (6.4m x 1.3cm); White Matte Nylon Cloth
- 11-878-13** - Ea./\$24.56  
21 ft.L x 3/4 in.W (6.4m x 1.9cm); Clear Glossy Polyester
- 11-878-15** - Ea./\$62.93  
21 ft.L x 3/4 in.W (6.4m x 1.9cm) (for 2mL and larger vials); White Matte Nylon Cloth
- 11-878-12** - Ea./\$45.64  
21 ft.L x 3/4 in.W (6.4m x 1.9cm); White Glossy Polyester
- 11-878-14** - Ea./\$50.22  
21 ft.L x 3/4 in.W (6.4m x 1.9cm); White Glossy Vinyl

Brady Lab Pal Printer Labels



- 11-877-177** - Ea./\$25.73  
Label; LabPal; Durable, chemical-, and solvent-resistant; 21 ft.L x 3/8 in.W (6.4m x 1cm) (for 0.6mL vials); White Matte Polyester; Recommended for: F, A

Tubes

Cell Culture Tubes

Fisherbrand Culture Tubes with Plain End



- 14-961-26** - Cs. of 1000/\$76.61  
Tube, Culture; Fisherbrand; Round Bottom; Plain End; Borosilicate Glass; Disposable; O.D. x L: 12 x 75mm; Case of 1000

Centrifuge Tubes

Fisherbrand Easy Reader Plastic Centrifuge Tubes



- 05-539-5** - Cs. of 500/\$185.63  
Tubes, Centrifuge; Easy Reader; Fisherbrand; Black printed graduation in 0.5mL subdivisions from 2 to 14.5mL; Conical bottom; Sterile; Polypropylene; 15mL; 17 O.D. x 119mm Long; 6000 x G Max. RCF; Plug seal closure; Foam Rack; Case of 500
- 05-539-6** - Cs. of 500/\$217.74  
Sterile; Polypropylene; 50mL; 28 O.D. x 115mm Long; 6000xG Max. RCF; Plug Seal Closure; Rack

Kimble Glass Centrifuge Tubes

- 05-605** - Pk. of 6/\$332.51, Cs. of 2 Pk./\$485.43  
Tubes, Centrifuge; Kimble; Conical-bottom; Kimax Glass; Cap. 100mL; O.D. x L: 37 x 200mm; Cap: None; Multiple Grads. from 0-100mL; For water, sediment determinations in petroleum products  
**Suggested for ASTM Method: D2709**

Kimble Pear-Shaped Glass Centrifuge Tubes



- 05-624** - Pk. of 2/\$251.58, Cs. of 3 Pk./\$550.92  
Tube; Centrifuge; Capacity: 100mL; O.D. x L: 58 x 160mm; Kimax Glass; For use in IEC HN-SII Centrifuge from Thermo Scientific with 05-121-1 rotor  
**Suggested for ASTM Method: D2709**

Nunc EZFlip Conical Centrifuge Tubes



- 12-565-802** - Cs. of 500/\$204.97  
Tube, Centrifuge; Nunc; EZ Flip; Polypropylene; Conical bottom; Hinged flip-top cap; Leakproof/airtight; Graduated with marking area; Sterile; Capacity: 15mL; O.D. x L: 17 x 121mm; Max RCF: 9500xG; 50/sleeve

Color Comparison Tubes

Kimble Exax Brand Nessler Tall Form Color Comparison Tubes with Std. Taper Cap Stoppers

- 07-059-1B** - Cs. of 12/\$663.46  
Tubes, Color Comparison; Exax Brand; Nessler Tall-Form; With standard taper stoppers; Matched Set of 12; Graduations: 50, 100mL; Joint standard taper No.: 24/12  
**Suggested for ASTM Method: D1209**

## Test Tubes

### Kimax Test Tubes with Beaded Rim



**14-915G** - Pk. of 72/\$97.90, Cs. of 4 Pk./\$285.84  
 Tube; Test; Borosilicate glass; 25mm O.D. x 150mmL;  
 Round bottom with beaded top rim  
**Suggested for ASTM Method: D130**

## Tubing

### Fisherbrand Clear PVC Tubing



**14-169-7F** - Pk. of 50/\$58.48  
 Tubing, Plastic, PVC; Fisherbrand; I.D.: 5/16 in.; Wall  
 Thickness: 1/16 in.; O.D.: 7/16 in.; Clear; Durometer  
 hardness: Shore A, 65; Maximum operating temperature,  
 73.8 deg. C (165 deg. F)

## Tubing Accessories

### Upchurch Scientific Plastic Tubing Cutter

**05-701-84** - Ea./\$21.95  
 Tubing Accessories, Cutter; Upchurch; With guide holes for 1/16 and 1/8 in. O.D.  
 PEEK/Teflon/Tefzel tubing; With five replacement blades

## Vials, Autosampler

### Fisherbrand 2mL Wide-Opening Snap Cap Glass Vials



**03-391-41** - Pk. of 100/\$21.18  
 Vial; Autosampler; Wide Opening Snap Cap; Fisherbrand;  
 O.D. x L: 12 x 32mm; 1.8mL capacity; Type 51A amber  
 glass; with marking area; graduated; without closure  
**03-391-40** - Pk. of 100/\$20.28  
 1.8mL Vial; Clear, with marking area  
**03-391-39** - Pk. of 100/\$18.32  
 1.8mL Vial ; Clear, without marking area

### Fisherbrand Autosampler Vials-8x35mm Shell Vials



**03-391-30** - Cs. of 1000/\$229.21  
 Vials, Shell; Clear; Fisherbrand; 8mm O.D. x 35mm H;  
 Capacity: 1mL; 33 Expansion Borosilicate Glass; Use  
 w/96-Pos Waters Autosampler; w/PE Closure

### Fisherbrand Crimp-Top Autosampler Vials



**03-391-5** - Pk. of 100/\$15.65  
 Vial, Crimp Top; Fisherbrand; Clear 33 Expansion  
 Borosilicate Glass; Capacity: 2mL; 12 x 32mm; Large  
 Opening  
**03-391-6** - Pk. of 100/\$19.67  
 Capacity: 2mL; Amber N-51A Borosilicate Glass; 12 O.D.  
 x 32mm long; Large Opening  
**03-391-7** - Pk. of 100/\$27.72  
 Convenience Kit Includes 100 Clear Type I/33 Expansion  
 Borosilicate Glass Vials w/Caps and PTFE/Red Rubber  
 Septa  
**03-391-34** - Pk. of 100/\$33.87  
 Seal, Crimp; 11mm, Aluminum; PTFE/Silicone/PTFE  
 Septa; Large Opening  
**03-391-33** - Pk. of 100/\$27.40  
 Seal, Crimp; 11mm, Large Opening/Crimp Top, PTFE/  
 Silicon Septa  
**03-391-3** - Pk. of 100/\$10.77  
 Seal, Crimp; 11mm, Aluminum; PTFE/Red Rubber Septa;  
 Large Opening

### Fisherbrand Standard Opening Crimp-Top Vials



**03-391-4** - Pk. of 100/\$27.26  
 Vial, Crimp Top, Autosampler; Fisherbrand; Convenience  
 Kit; 100 Clear Glass Vials and 100 Seals with PTFE/Red  
 Rubber Septa; 12 x 32mm; Standard Opening; 2mL; Type  
 I/Class A/Borosilicate Glass  
**03-391-38** - Pk. of 100/\$18.50  
 Capacity: 2mL; Amber N-51A Borosilicate Glass  
**03-391-2** - Pk. of 100/\$15.53  
 Capacity: 2mL; Clear Glass; 12 x 32mm; Standard  
 Opening

## Water and Wastewater Testing Supplies

### HF Scientific Chlorine Micro Check Test Strips



**14-376-164** - Pk. of 50/\$16.08  
 Water Testing Supplies; Test Strips; Free Chlorine; Micro  
 Check; Detect levels as low as 0.5ppm  
**14-376-163** - Pk. of 50/\$16.08  
 Total Chlorine

### Koehler Instrument Copper Strip Bath

**NC9313081** - Ea./\$3,378.51  
 Bath; Copper Strip; Tarnish Test Apparatus; Measures the tendency of  
 lubricating grease to corrode copper under static conditions; Conforms to ASTM  
 D4048 specifications; 115V  
**Suggested for ASTM Method: D130**

**22-280-333** - Ea./\$1,068.35  
 Multi copper strip holder; Stainless steel  
**Suggested for ASTM Method: D130**  
**KL-K25080** - Ea./\$7.84  
 Copper Strips for use with Copper Strip Test Bath  
**Suggested for ASTM Method: D130**

## Wipers, General Purpose

### Kimtex Prep Wipers

**19-045-451** - Cs. of 1/\$167.38  
 Wipers, General-Purpose; Kimtech Prep Kimtex; Reusable; Low-lint PP; Resist acids, bases, solvents; Size: 9.6 x 13.4 in. Jumbo roll, 717 sheets

### Kimtech Science KimWipes Delicate Task Wipers



**06-666A** - Pk. of 280/\$7.62, Cs. of 60 Pk./\$324.14  
 Wiper, Task; Kimwipes; Single-ply; Extra-Low Lint; Treated with Amine-Free Anti-Stat; LintGuard PolyShield; White; 4-1/2 L x 8-1/2 in. W (11 x 22cm); Nonabrasive

## Equipment

### Baths

#### Chiller Baths

### Thermo Scientific Neslab Merlin Recirculating Chillers



**13-265-180** - Ea./\$6,674.49  
 Water Bath; Recirculating Chiller, Neslab, Merlin, Model M-150, Pumping Option PD-2, Temperature Range 5 deg. to 35 deg. C, 3500 watts at 20 deg. C Cooling; 1.8L Capacity, 208V 60Hz  
**13-265-181** - Ea./\$6,142.90  
 Merlin M-100; 1.8L Capacity  
**13-265-500** - Ea./\$4,170.12  
 M-25 PD1; 115V; 810W at 60 Hz  
**13-265-502** - Ea./\$4,444.66  
 M-33 PD1; 115V; 1250W at 60Hz

#### Circulating Baths

### Fisher Scientific Isotemp Refrigerating Series Circulators



**13-874-13** - Ea./\$4,286.83  
 Circulator, Fisher Scientific Isotemp Refrigerating, Digital Model 3028D, CFC-free, 28L, -25 deg. to +100 deg. C (-4 deg. to +212 deg. F), Cooling: 175w at -20 deg. C; 450w at 0 deg. C; 700w at +20 deg. C, 115V 60Hz, 20A  
**Suggested for ASTM Method: D4951**

### Precision Digital Circulating Water Baths



**15-474-100** - Ea./\$2,438.00  
 Water/Oil Bath; Circulating, Thermo Scientific Precision Model 260; 19L capacity; LED readout, Stainless-steel construction; high-limit thermostat; Ambient 5-70 deg. C range to 99.9 deg. C with cover; +/-0.05 deg. C uniformity; 1000w heater  
**Suggested for ASTM Method: D4052**  
**15-474-106** - Ea./\$2,680.00  
 Model 265; 9 gal.  
**Suggested for ASTM Method: D4052**

### Thermo Scientific Haake C and DC Series Heating Circulators



**13-874-363** - Ea./\$2,129.00  
 Bath; Circulating; Heating; Thermo Scientific Haake; Digital Model DC10-P5/U; 5L; Temperature Range 25 deg. to 100 deg. C; Heater 1200w; Polyphenyleneoxide Reservoir

### Thermo Scientific Haake DynaMax Refrigerating-Heating Circulators



**13-875-501** - Ea./\$14,593.00  
 Circulator, Refrigerating-Heating, Thermo Scientific Haake; DynaMax 1200; 208V 60Hz; Dissipate heat from exothermic chemical reactions  
**13-875-503** - Ea./\$17,445.00  
 Haake DynaMax 1700 Refrigerating-Heating Circulator; 208V 60Hz

### Thermo Scientific Haake Open Bath Circulators



**13-874-574** - Ea./\$3,442.00  
 Circulator, Open-Bath; Thermo Scientific Haake Model DC10-W46/B; Capacity: 46L; Temp. Range: 25 to 100 Degree C; Temp. Stability: +/- 0.02 Degree C; Heater: 1200W; Display/Control: Digital

### Thermo Scientific Haake Phoenix II Series Heating Circulators



**13-874-483** - Ea./\$5,374.00  
 Bath; Circulating; Refrigerating; Thermo Scientific Haake Digital Model P1-C25P; 4.5L; Temperature Range -28 deg. to +150 deg. C; 115V

### Thermo Scientific Haake Phoenix II Series Refrigerating Circulators



**13-874-496** - Ea./\$9,584.00  
 Bath; Circulating; Refrigerating; Thermo Scientific Haake Digital Model P1-C50P; 8L; Temperature Range -50 deg. to +150 deg. C; 220V  
**13-874-491** - Ea./\$7,011.00  
 Phoenix II P2-C40P; Refrigerated Bath; 12L  
**13-874-490** - Ea./\$9,116.01  
 P1-C41P; Refrig Circulator; 15L



### Thermo Scientific Haake Refrigerating Circulators



**13-874-495** - Ea./\$5,525.99  
Circulating Bath, Refrigerating; Thermo Scientific Haake; Model P1-C35P; 21/8 gal. (8L); -35 deg. to +200 deg. C; Digital LCD

### Thermo Scientific Neslab Heating Circulators



**13-873-316** - Ea./\$1,857.21  
Water Bath; Circulating, Thermo Scientific Neslab Model EX-7 Heating; 7L capacity; Digital One controller, LED readout, low/high-limit alarms; Ambient + 12 to +200 deg. C range; +/-0.01 deg. C accuracy; 800w heater; 15L/min. pump pressure

**13-873-318** - Ea./\$2,658.84  
Model Ex-7D Heating Water Bath; 7L ; 115v

**13-873-324** - Ea./\$2,018.34  
Model EX-17 Heating Water Bath; Stainless-steel reservoir is 9-3/8L x 8-3/4W x 9 in.H; Overall, 18-1/4L x 11-3/8W x 17-5/8 in.H; 115V 60Hz, 16A

**13-873-326** - Ea./\$3,131.11  
Model Ex-17d Heating Bath; 17L; 115v

**13-873-328** - Ea./\$2,222.04  
Model Ex-35D1 Heating Bath; 35L; 115v

**13-873-330** - Ea./\$3,634.24  
Model EX-35D; 35L Capacity

### Thermo Scientific Neslab Refrigerating Circulators



**13-873-301** - Ea./\$2,937.07  
Bath, Circulating; Thermo Scientific Neslab Model RTE-7 Heating/Cooling; 7L capacity; Digital One controller, LED readout, low- and high-limit alarms; -25 to +150 deg. C range; +/-0.01 deg. C accuracy; 800w heater

**13-873-302** - Ea./\$3,685.67  
RTE-7D Plus; Refrigerated Bath; 115v

**13-873-308** - Ea./\$3,531.38  
RTE-17 Heating/Cooling Water Bath; 17L capacity; Digital One controller, LED readout, low- and high-limit alarms; -25 to +150 deg. C range; +/-0.01 deg. C acc.; 1600w heater

**13-873-310** - Ea./\$4,089.78  
RTE-17D Plus; Refrigerated Bath; 115v

**13-873-312** - Ea./\$4,055.76  
RTE-740 Heating/Cooling Water Bath; 7L capacity; 800w heater; -40 to +200 deg. C range; +/-0.01 deg. C accuracy

**13-873-315** - Ea./\$4,665.23  
RTE-740D Plus; Refrigerated Bath; 115v

### Thermo Scientific Neslab Ultralow-Temperature Circulators



**13-265-171** - Ea./\$16,741.51  
Bath, Circulating; Refrigerated, Thermo Scientific Neslab; Model ULT-80; -80 to +10 deg. C; Digital temperature controller with RS-232 and analog interface ports; 15L Capacity

**13-265-91** - Ea./\$23,019.22  
Neslab ULT-95 Bath Circulator; -90 to -30 deg. C; 208V

## General Purpose Baths

### Fisher Scientific HiTemp Bath



**11-481Q** - Ea./\$1,263.74  
Bath, High Temp; Fisher Scientific Isotemp; 4L; CSA  
**Suggested for ASTM Method: D1688**

### Fisher Scientific Isotemp Economy Analog Control Water Baths

**15-460-2Q** - Ea./\$601.34  
Bath, General Purpose, Fisher Scientific Isotemp Analog-Control Water Bath Model 102; 2L capacity; ambient +5 deg. C to 85 deg. C, to 100 deg. C with cover; Uniformity/Stability, +/-0.2 deg. C at 37 deg. C  
**Suggested for ASTM Method: D1688**

**15-460-5Q** - Ea./\$730.71  
5L capacity; Reservoir, 5-7/8D x 11-3/4W x 6 in.H; Overall, 10-1/2L x 14-1/8W x 7-5/8 in.H  
**Suggested for ASTM Method: D1688**

**15-460-10Q** - Ea./\$878.72  
10L capacity; Reservoir, 12-7/8D x 11-3/4W x 6 in.H; Overall, 16-3/8L x 15-3/8W x 8-7/8 in.H; with acrylic cover, sample tray, thermometer and clip, cord and plug for 120V 50/60Hz, 5.8A  
**Suggested for ASTM Method: D1688**

**15-460-20Q** - Ea./\$1,041.21  
20L capacity; Reservoir, 11-3/4D x 19-3/4W x 6 in.H; Overall, 16-3/8L x 24-3/8W x 8-7/8 in.H; with acrylic cover, sample tray, thermometer and clip, cord and plug for 120V 50/60Hz, 8.3A  
**Suggested for ASTM Method: D1688**

### Fisher Scientific Isotemp Open Baths



**13-873-12A** - Ea./\$1,986.00  
Bath, Open; Stainless Steel; Fisher Scientific Isotemp; Refrigerated Model; 3-3/8 gal. capacity; 16 L x 21-1/2 W x 11-1/2 in. H; Scratch-resistant exterior coating; Work down to 0 deg. C; 115V 50/60Hz  
**Suggested for ASTM Method: D1688**

**13-873-14** - Ea./\$207.75  
Acrylic; Medium Model; 4-1/4 gal. Capacity  
**Suggested for ASTM Method: D1688**

**13-873-11** - Ea./\$782.16  
Stainless Steel; Large Capacity Model; 7-3/8 gal. Capacity  
**Suggested for ASTM Method: D1688**

## Specialty Baths

### Cannon CT-500 Constant-Temperature Bath



**22-315-629** - Ea./\$4,950.33  
Bath, Cannon CT-500 Constant Temperature; Viscosity; Maintains temperatures +/-0.01 deg. C between 20 deg. and 100 deg. C; 17L, 100-130V 50/60Hz  
**Suggested for ASTM Method: D445**

### Koehler KV3000/KV4000 Constant-Temperature Baths



**22-172-590** - Ea./\$6,347.74  
Bath; Koehler; KV3000; Constant temperature, kinematic viscosity, with integrated digital timing; Microprocessor PID temperature control between ambient and 150 deg. C (302 deg. F); - 20 deg. to 150 deg. C (- 4 deg. to 302 deg. F)  
**Suggested for ASTM Method: D130**

**22-172-591** - Ea./\$7,670.98  
Advanced Kinematic Viscosity Bath; KV4000  
**Suggested for ASTM Method: D2500**

### Thermo Scientific Haake Shaking Water Bath

**13-872-130** - Ea./\$353.33  
Cover (transparent); Roof-shaped; Swivelling; For use with Thermo Scientific Haake Shaking Water Bath Model SWB25

### Thermo Scientific Haake Shaking Water Bath SWB25



**13-874-369** - Ea./\$3,866.00  
Shaking Water Bath; Heating; Thermo Scientific; Haake SWB25; 22 to 90 deg. C range with tap water cooling; +/-0.2 deg. C stability; Capacity: 26L; Tank Material: Stainless Steel

### Thermo Scientific Precision Scientific Electrically Heated Concentric Ring Steaming Bath



**15-496** - Ea./\$1,213.00  
Bath, Steaming; Electrically heated Concentric Ring; Precision; 4-Hole Model; Stainless Steel; 3 gal. Capacity; 1100w; 120V, 50/60Hz; 15 L x 15 W x 13 in. H; 4 Holes x 5 in. dia.; Rings are removable; Max temp. 100 deg. C  
**Suggested for ASTM Method: D1688**  
**15-491** - Ea./\$1,300.00  
8-Hole Model; Stainless Steel; 7 gal. Capacity; 120V  
**Suggested for ASTM Method: D1688**

## Bath Accessories

### Bath Filler

#### Silicone Oil, Acros Organics

**AC16385-0010** - Ea./\$70.70  
Silicone Oil, For Melting point and Boiling point apparatuses; 1kg; CAS: 63148-62-9

**Suggested for ASTM Method: D1160**

**AC16385-5000** - Ea./\$46.30  
For Melting point and Boiling point apparatuses; 500g

**Suggested for ASTM Method: D1160**

**AC17466-1000** - Ea./\$51.60

High Temperature; 100g

**Suggested for ASTM Method: D1160**

**AC17466-5000** - Ea./\$155.10

High Temperature; 500g

**Suggested for ASTM Method: D1160**

#### Silicone Oil, Fisher Chemical

**S159-500** - Ea./\$67.88, Cs. of 6/\$323.61  
Silicone Oil; Amber Glass; 500mL; CAS: 63148-58-3  
**Suggested for ASTM Method: D1160**

## Miscellaneous Accessories for Baths

### Spectrum Medical Clear Bath Algae Inhibitor



**08-671-200** - Ea./\$60.63  
Algae Inhibitor; Spectrum Clear Bath; 2 oz. (57.5mL); For use with circulating water baths, Incubators, Temperature controlled instruments, Humidifiers, Automatic analyzer baths, Blood/gas analyzers

## Platforms and Clamps for Baths

### Thermo Scientific Haake Bath Flask Clamps

**13-872-134** - Ea./\$36.44  
Clamp; Thermo Scientific; For Thermo HAAKE shaking water bath; For 25mL flask or 42mm beaker; Carriage plate holds 40

**13-872-135** - Ea./\$38.23  
Clamp, For 50mL Flask or 51mm Beaker; Carriage Plate Holds 32  
**13-872-136** - Ea./\$48.57  
Clamp, For 250mL Flask or 85mm Beaker; Carriage Plate Holds 12  
**13-872-137** - Ea./\$54.27  
Clamp, For 500mL Flask or 105mm Beaker; Carriage Plate Holds 8  
**13-872-138** - Ea./\$66.33  
Clamp, For 1000mL Flask or 131mm Beaker; Carriage Plate Holds 5

## Battery Chargers

### Industrial Scientific Corporation Battery Charger

**18-063B** - Ea./\$478.58  
Charger, Battery; Trickle; Dual Rate; Single Unit; 120V

## Centrifuges

### Benchtop Centrifuges

#### Fisher Scientific accuSpin Models 3/3R Benchtop Centrifuges

**13-100-517** - Ea./\$6,082.39  
Centrifuge, Benchtop; Fisher accuSpin 3; Ventilated; Capacity 3L (4 x 750mL); Max. speed/force 4150rpm/3700xG; Var. speed ctrl; Digital display; Auto rotor recog./imbal. sensor; 26-1/4L x 28-3/4W x 14-1/4 in. H; 120V 60Hz; CE, CSA  
**Suggested for ASTM Method: D2709**

#### Fisher Scientific accuSpin Model 400 Benchtop Centrifuge



**13-100-557** - Ea./\$3,206.99  
Centrifuge; Fisher accuSpin 400; Non-refrigerated; Benchtop; Capacity: 4 x 100mL capacity; Max speed 15,000rpm; Max RCF 21,890xG; (less rotors, buckets and accessories); 120V  
**Suggested for ASTM Method: D2709**

## Clinical Centrifuges

### Thermo Scientific IEC CL30 Series Centrifuges



**05-376-100** - Ea./\$4,005.00  
Centrifuge, Benchtop; Thermo IEC; CL30; Capacity 4 x 280mL; Max. Speed/Force 6500rpm/5300xG; LED; Timed (30 sec.-99 min.) or continuous run; AUTO-LOCK quick rotor exch.; 5 accel./brake rates; CE, IEC 1010-1; 120V 60Hz  
**Suggested for ASTM Method: D2709**

## Centrifuge Accessories

### Adapters

#### Thermo Scientific Sorvall Adapters for Mach 1.6 with 4-Place Swing Rotor and Round Buckets

**75-007-621** - Ea./\$89.49  
Adapter, Tube; Sorvall; Conical; For 4-Pl. Swing Rotor 75-002-000 w/75-002-002 Round Bucket; 15mL Cap.; 17 x 127mm Max. Tube Size; 8 Slots  
**Suggested for several ASTM Methods.**

### Rotors

#### Fisher Scientific accuSpin 3/3R 4-Place Swinging Bucket Rotor

**13-100-518** - Ea./\$2,010.17  
Rotor, Centrifuge; Swinging Bucket Rotor body, accepts 4 x 750mL or 4 x 250mL buckets or 4 x 4 microplates, buckets and adapters sold separately; for accuSpin 3/3R  
**Suggested for several ASTM Methods.**

### Fisher Scientific accuSpin 3/3R 24-Place Fixed-Angle Microtube Rotor

**13-100-524** - Ea./\$1,593.88  
Rotor, Centrifuge; Microliter; 24 x 1.5/2.0mL for accuSpin 3R only; biocontainment lid; max speed 15,000RPM; max RCF 21,890xG  
**Suggested for several ASTM Methods.**

### Thermo Scientific IEC HN-SII Benchtop Centrifuge Oil Test Rotor Systems for pear-shaped oil tubes

**05-152-1** - Ea./\$1,243.00  
System, Rotor; Thermo Scientific IEC HN-SII Benchtop Centrifuge Oil Test Rotor System; For pear-shaped oil tubes; Four-place; Trunnion rings; Four oil tube buckets  
**Suggested for ASTM Method: D2709**

## Chromatography Equipment

### Gas Chromatographs

#### Thermo Scientific FOCUS GC

**03-950-106** - Ea./\$17,600.33  
Chromatograph, Gas; Thermo Scientific FOCUS GC; Basic Model; Temp range ambient to 350 degree C; For routine QA/QC and high productivity laboratories; Front open oven for easy access and installation of column racks  
**Suggested for ASTM Method: D5501.**  
**03-950-107** - Ea./\$22,278.90  
Automated Model  
**Suggested for ASTM Method: D5501.**

### Gas Generators

#### domnick hunter Hydrogen Gas Generators



**14-950-9** - Ea./\$6,330.56  
Gas Generator, Hydrogen; domnick hunter; 160cc/min. Outlet Flowrate; 99.99999% Purity; Automatic Leak Detection, Low Water and Poor Quality Water Detection w/Alarm  
**14-950-10** - Ea./\$8,125.95  
250cc/min. Outlet Flowrate

#### domnick hunter Pure Air Gas Generators



**14-951-1** - Ea./\$1,506.16  
Gas Generators; Pure Air Generators; Domnick Hunter; Flow rate 140L/min., Delivered air quality ISO8573.1 Class 1.2.1; 12W x 4L x 18 in.H, Fully automatic operation and generation, CE, CAS, UL compliant, 22 lb.

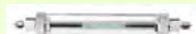
#### domnick hunter Zero-Air Generators



**14-950-30** - Ea./\$1,850.00  
Gas Generator, High Purity Nitrogen; Domnick Hunter; Zero-Air Generator; Flow Rate: 1L/min.; Hydrocarbon removal to <0.1ppm; Dimensions 15-3/4L x 13-1/2W x 12-3/4 in.H; Meets requirements of CE, UL, CRN; 110V 60Hz; 21 lb.

### Gas Purifiers

#### Restek Indicating Oxygen and Moisture Traps



**06-711-820** - Ea./\$106.00  
Moisture Trap, Indicating; Restek; 1/4 in. fitting; Reduces water less than 10ppb; Decrease noise for high sensitivity detectors; 40microm frit protects needle; 13 L x 2 in. dia.

### Thermo Scientific Super Clean Cartridge Filters



**60-180-819** - Ea./\$154.91  
Chromatography supplies; Super Clean Cartridge Filter; Thermo Scientific; Moisture w/Indicator; 7.2g H2O Capacity; Inert, Air, H2, He Useable Gases; <6.0 Outlet Quality  
**60-180-821** - Ea./\$154.91  
Hydrocarbon; 12g (n-butane) Capacity; Inert, Air, H2 Useable Gases  
**60-180-820** - Ea./\$154.91  
Oxygen w/Indicator; 1000mL O2 Capacity; Inert Useable Gases

### Vici Metronics Gas-Specific Purifiers



**05-730-1** - Ea./\$269.54  
Purifier, Gas-Specific; Air; 1/8 in. Compression fitting; 20-5/8 in. L; 1-1/2 in. dia.; 1000psi max. inlet pressure; 500mL/min. max. flow; Proprietary adsorptive material  
**05-730-3** - Ea./\$269.54  
H2; 1/8 in. Compression fitting  
**05-730-4** - Ea./\$270.50  
H2; 1/4 in. Compression fitting  
**05-730-2** - Ea./\$269.54  
He/Inert; 1/4 in. Compression fitting  
**05-730-5** - Ea./\$269.54  
N2; 1/4 in. Compression fitting

### Gas Regulators

#### Fisherbrand Multistage Cylinder Regulators



**10-575-134** - Ea./\$612.55  
Gas Accessories; Regulators; Fisherbrand; Nylon, neoprene; Brass dual-scale gauges; Outlet valve 1/4 NPT male thread; For Gas: Air, Industrial; Delivery Pressure psi (MPa): 1-40  
**10-575-136** - Ea./\$655.58  
1 to 125 PSI; For Gas: Argon  
**10-575-142** - Ea./\$494.52  
1 to 125 PSI; For Gas: Hydrogen

#### MSA Gas Demand Regulator

**18-999-3180** - Ea./\$360.45  
Regulator, Demand; Gas; Miser; MSA Model RP; 9-1/4 L x 6-1/2 W x 4-1/2 in. H; 0.51 lbs

#### Restek Ultra-High-Purity Brass Line Regulator



**06-711-717** - Ea./\$289.00  
Regulator; Gas; Brass Line; Restek; Ultra-High-Purity; 3000psig Max inlet pressure; 0-50psig Max delivery pressure; 0.1 Flow capacity; 0-100psig outlet gauge pressure; 1/4 in. female NPT  
**Suggested for ASTM Methods: D6584, D5501 D3606, D6550**

## Counting Devices

### Fisherbrand Hand Tally Counter



**07-905-6** - Ea./\$35.47  
Counter, Hand Tally; Fisherbrand; Tallies to 9999; Resets to 0; Pocket size; Chrome finish

### Hausser Phase Contrast Hemacytometers



**02-671-54** - Ea./\$189.00  
Hemacytometer, Phase Contrast; Hausser; Pyrex glass; 3 x 1 in.; 7.6 x 2.5cm; With bright line ruling and counting chamber with reduced overall thickness

## Digestion

### Fisher Scientific Digestive Systems: Auto Lift Model

**TC2508-002** - Ea./\$9,000.00  
System, Digestion; Fully automated digestion with user interface adapting to actual product configuration; GLP-support through two-way PC communication; Auto Lift Model; 8 tubes  
**Suggested for DDGS Method AOAC 2001.11.**

### Fisher Scientific Digestion Systems: Exhaust Manifolds

**TC2508-020** - Ea./\$1,759.50  
Manifold, Exhaust; Fisher Scientific Digestion Systems; Facilitates fume removal and containment; For TC2508 Series digestion unit  
**Suggested for DDGS Method AOAC 2001.11.**

### Fisher Scientific Digestion Systems: Scrubber Unit

**TC2501-001** - Ea./\$4,761.00  
Scrubber Unit; Fisher; For Fisher Scientific Digestion Systems; Handles up To 100 Samples Without Changing Reagent; For Neutralization of Corrosive Fumes in Acid Digestions; Combine With Any Exhaust Manifold; 110/230V 50-60 Hz Electrical Reqts.  
**Suggested for DDGS Method AOAC 2001.11.**

### Labconco Kjeldahl Micro Digester



**21-131-5** - Ea./\$2,440.00  
Digester, Micro; Labconco; For Kjeldahl digestions; Holds 100mL flasks; Individual 200w elec heaters w/adj. Controls; Includes 6-port manifold; 2 rear brackets, six 100mL flasks; 115VAC 50/60Hz, 12A

### Labconco Replacement Parts for Crude Fiber Apparatus

**09-681-9** - Ea./\$44.52  
Heat Control, Labconco; Replacment;; For Crude Fiber Apparatus Purchased Since 1972; 115V  
**09-681-6** - Ea./\$90.70  
Heating Element; For Crude Fiber Apparatus; 115V; 300W

## Distillation Equipment

### Fisher Scientific DU100 Distillation Unit

**TCDU-100** - Ea./\$8,001.34  
Distillation Unit; Fisher Scientific DU1000; Semiautomatic; Programmable; Interconnected safety devices; Includes: built-in steam generator; alkali tank; 10 receiver flasks; 100 and 250mL test tubes; adapters; 220V 50/60Hz  
**Suggested for DDGS Method AOAC 2001.11.**

### Foss Tecator Kjelttec 2200 Auto Distillation Unit



**TC2200-001** - Ea./\$13,299.75  
Distillation Unit; Foss Tecator; Kjelttec 2200; Automatic; Microprocessor Controlled; Performs Kjeldahl Nitrogen/ Protein, Ammonia, TKN, and Alkaline Direct Distillation; Test Tubes and Adapters for 100 and 250mL Tubes; 230V 50/60Hz

## Electrophoresis Systems, Horizontal Gel

### FisherBiotech Horizontal Electrophoresis Systems Ordering Information



**FBSB710** - Ea./\$431.05  
Electrophoresis Systems, Horizontal; FisherBiotech; Midigel; 7 x 10cm gel size; Buffer volume: 400mL; Type: Standard; 6-1/4 L x 3-3/4 W x 3-1/8 in. H  
**FBSB1316** - Ea./\$588.51  
Midigel System; Standard; 13 x 16cm gel size; 800mL buffer volume  
**FBSBR2025** - Ea./\$982.67  
Large Gel; 20 x 25cm gel; 2L buffer volume  
**FBSB2025** - Ea./\$707.23  
Large Gel System; 20 x 25cm gel size; 2.3L buffer volume  
**FBSB2318** - Ea./\$741.96  
Wide-Format System; Runs 25 to 250 samples simultaneously

## Evaporators, Rotary

### Brinkmann Heidolph Laborota Rotary Evaporation Systems



**13-878-412** - Ea./\$4,890.03  
Evaporator, Rotary; Brinkmann; Heidolph Laborota 4000 Efficient HB G1B; Manual lift; Includes G1B safety-coated glassware set & heating bath; Unique large bore vapor tube offers faster distillation rates and higher yields; 115 V

### Buchi Rotavapor RII Evaporation Systems



**05-402-287** - Ea./\$4,719.18  
Evaporator, Rotary; Rotavapor RII; Vertical, tap-water-cooled condenser, ideal for high-boiling solvents; Inlet feed tube permits continuous feed of volumes; Plastic Coated; Standard Taper 24/40

## Extraction Apparatus

### Foss Soxtec 2055 Manual Fat Extraction System



**TC2055-002** - Ea./\$23,805.00  
Solvent extraction system; Manual; Soxtec Avanti 2055; Capacity per batch: six samples; Maximum thimble volume: 65mL; Reproducibility +/-1%. For 115V 60Hz; 2L/ min. tap water flow for cooling

## Extraction Thimbles

### Foss Thimbles for Soxtec 2055 Manual Fat Extraction System

**TC1522-0035** - Pk. of 25/\$223.31  
 Thimbles; For Soxtec Unit: HT 2, 2045 ; Environmental applications including PCB extraction; Description: 33mm; Pack of: 25  
**TC1522-0045** - Pk. of 25/\$103.07  
 33mm; For Soxtec Unit: HT 2, 2055

## Fermentation

### New Brunswick BioFlo 110 Fermentor/Bioreactor



**14-285-604** - Ea./\$22,445.00  
 Fermentation; Cell Culture; BioFlo 110; Advanced Fermentation Kit, Nonjacketed vessel with heater blanket, 120V; 1.3L total capacity

## Furnaces, Muffle

### Fisher Scientific Isotemp Basic Muffle Furnaces



**10-550-58N** - Ea./\$2,960.11  
 Furnace, Muffle; Programmable; Fisher Scientific Isotemp; Medium Model; Temp. Range is Ambient to 1125 deg. C; 208/240V 50/60Hz, 3000w, 12.5A; Capacity (Chamber Volume): 0.58 cu. ft.; 90 lb.  
**Suggested for ASTM Method: D874**

### Fisher Scientific Isotemp Programmable Muffle Furnaces



**10-650-14** - Ea./\$3,593.24  
 Furnace, Muffle; Programmable; Fisher Scientific Isotemp; Small Model; Temp. Range is Ambient to 1125 deg. C; 120V 50/60Hz, 1700w, 14.2A; Capacity (Chamber Volume): 0.14 cu. ft.; 60 lb.  
**Suggested for ASTM Method: D874**

## Furnaces, Tube

### Thermo Scientific Split Tube Furnaces



**10-559-17** - Ea./\$6,228.00  
 Furnace, Split Tube; Thermolyne; Temperature Control: 8-Step Programmable; Heating Zone: 12 in. (30.5cm); 18-7/8 L x 21-7/8 W x 23-1/8 in. H; 120V 50/60Hz, 24.0A, 2880W  
**Suggested for ASTM Method: D874**

## Homogenizers

### Fisher Scientific PowerGen Model 500 Homogenizer



**14-261-04P** - Ea./\$5,304.52  
 Homogenizer Kit, Fisher Scientific PowerGen; Model 500; Package; 115V 60Hz, 500w; Includes: unit, stand, 35 x 195mm flat-bottom generator, 10 x 95mm and 20 x 195mm sawtooth generators; Volume range (for water) 0.03-100mL; Speed range 8000-30,000rpm

### Fisher Scientific PowerGen Model 1000 Homogenizer



**14-261-06P** - Ea./\$5,941.06  
 Homogenizer Kit, Fisher Scientific PowerGen; Model 1000; Package; 115V 60Hz, 1050w; Includes: unit, stand, 35 x 195mm flat-bottom generator, 10 x 95mm and 20 x 195mm sawtooth generators; Volume range (for water) 0.03mL-10L; Speed range 7500-30,000rpm

## Hotplates

### Fisher Scientific Economy Hotplates and Stirring Hotplates



**11-510-16HQ** - Ea./\$213.10  
 Hotplate, Fisher Scientific Economy, gray, 4x4 in. top plate, heating range 150 deg. to 590 deg. C, analog control, cast-aluminum base, 120V 60Hz  
**Suggested for ASTM Method: D874**  
**11-510-49HQ** - Ea./\$229.99  
 Hotplate 7x7 Ceramic 120v, gray  
**Suggested for several ASTM Methods.**

### Fisher Scientific Isotemp Basic Hotplates



**11-100-16H** - Ea./\$204.93  
 Hotplate; Fisher Scientific Isotemp; Ceramic top; 4 x 4 in. heating surface; Temp. control to 540C; 120V 60Hz  
**11-100-49H** - Ea./\$232.87  
 Ceramic hotplate, 7 x 7 in., 120V 60Hz

## Incubators, Dry Bath

### Fisher Scientific Isotemp Digital and Analog Dry Bath Incubators



**11-715-125DQ** - Ea./\$878.74  
Incubator, Dry Bath; Fisher Scientific Isotemp Digital 2-Block Model 125DQ; Ambient +5 deg. to 130 deg. C range; PID Digital Control; For 120V 50/60Hz; Order heating blocks separately

## Incubators Accessories

### Fisher Scientific Isotemp Heating Blocks for Isotemp Models 125DQ, 145DQ and Economical Dry-Bath Incubators



**11-715-313Q** - Ea./\$178.02  
Heating Block, Incubator Accessory, Fisher Scientific Isotemp Economical Dry-Bath Models, and Models 125DQ and 145DQ Dry-Bath Incubators; Aluminum; For rectangular tubes; Twelve 15-16mm holes  
**11-718-22Q** - Ea./\$103.51  
Aluminum; For rectangular tubes; Six 6mm, Five 13mm, and Three 25mm holes

## Label and Sign Making Machines

### Brady GlobalMark Industrial Label Makers



**19-201-063** - Ea./\$6,157.86  
Label Maker, Industrial; GlobalMark; Multicolor; Large, color touch-screen; 1-2 to 4 in. wide; 290 built-in symbols

### Brady Lab Pal Label Printer



**11-877-175** - Ea./\$253.74  
Printer; Label; Portable; Lab Pal; Time/date stamp; Banner mode Serialization for aliquotting; Five font sizes; Prints special laboratory symbols

## Microscopes

### Fisher Scientific Micromaster Infinity Optics Microscopes



**12-564-051** - Ea./\$3,431.29  
Fisher Scientific Micromaster Infinity Optics Microscope: Brightfield Optical Model with Trinocular Head; Objectives: Planachromatic 4X, 10X, 20X, 40X, 100X oil; Reversed 5-position nosepiece  
**12-564-050** - Ea./\$3,476.23  
Brightfield Optical Model; binocular head; Planachromatic 4X, 10X, 20X, 40X, 100X oil.

### Carl Zeiss Stemi 2000/2000C Stereomicroscopes

**12-070-281** - Ea./\$3,863.81  
Stereomicroscope, Stemi 2000C, 0.65X to 5.0X Zoom Range, 286mm Working Distance, Port for Photo Accessories/Video Camera  
**12-070-280** - Ea./\$3,175.85  
Carl Zeiss; Stemi 2000 Stereomicroscope; Includes body, eyepieces, zoom objective, stand; without illumination; order separately

## Microscope Accessories and Supplies

### Carl Zeiss Stemi 2000/2000C Stereomicroscope Eyepieces

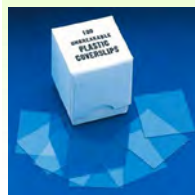
**12-584-1** - Ea./\$577.96  
Eyepiece for the Stemi 1000 Stereomicroscope WPL 16X/ 16 BR FOC, Carl Zeiss,

### Carl Zeiss Stereomicroscope Stands

**12-604-8** - Ea./\$1,310.23  
Boom Stand, 600mm long column, 470mm ball bearing supported dual shaft horizontal arm, Tip-over maximum weight of 23lbs., Tilt mount

## Microscope Slides and Coverslips

### Fisherbrand Unbreakable Cover Slips



**12-547** - Pk. of 1000/\$75.00  
Cover Slips, Microscopy; Unbreakable; Fisherbrand; Plastic; Clear; Noncurling; 0.17 to 0.25mm thick; Size: 22 x 22mm

### Thermo Scientific Erie Gold Seal Rite-On Frosted Microslides

**12-518-101** - Pk. of 144/\$48.96, Cs. of 25 Pk./\$970.41  
Microslides, Frosted; Gold Seal; Rite-On; White ceramic ink frosting, 3/4 in. (19mm); Hard, colorless, noncorrosive glass; Pre-cleaned; 75 x 25mm; Thickness: 0.97 to 1.07mm

## Mills

### Foss Tecator Cyclotec Sample Mill



**TC1093-002** - Ea./\$6,210.00  
Mill; Foss Tecator Cyclotec; Cap. 100mL; max. sample 10mm; Max. speed 20,000rpm; Max. throughput 4g/second, 40 samples/hr.; Self-cleaning; w/two 125mL bottles, 0.5/1.0mm screens, spare ring/seal; 11-3/4L x 8W x 15-3/4 in.H; 115V 60Hz, 570w

## Mixers

### Fisher Scientific Multi-Tube Vortexers



**02-215-450** - Ea./\$2,089.00  
Mixer; Multi-Tube Vortexer; Analog; Capacity 50 tubes; Speed range 1200-2400rpm; Orbit 3.6mm; Timer 0-60 sec.; w/12mm tube rack, pwr cord, tray pad; 9.25L x 15W x 15.5"H (23.5 x 38.1 x 39.4cm); 120V 50/60Hz, 5A, 75w; UL, CUL, CE; 2-yr warr

### Fisher Scientific Vortex Mixers



**02-215-365** - Ea./\$335.25  
Mixer; Vortex; Analog; Variable speed: 100-3200rpm; For flasks, beakers, tubes, and microwell plates; Touch mode; 3-way power switch; Includes cup head and 3 in. head w/cover; 120V 50/60Hz; 75w  
**Suggested for ASTM Method: D512**  
**02-215-370** - Ea./\$394.00  
Digital; 500-3000rpm; 120V  
**Suggested for ASTM Methods: D4951, D512**

## Fisher Scientific Vortex Mixers Accessories



**02-215-392** - Ea./\$6.00  
Mixer, Vortex; Accessories; Tube Holder; Vessel Harness; holds vessels firmly in place during continuous vortexing  
**Suggested for ASTM Method: D4951**  
**02-215-391** - Ea./\$93.00  
Insert Retainer  
**Suggested for ASTM Method: D4951**

## Ovens

## Column Ovens

## Shimadzu Scientific Column Oven

**22-845-00932** - Ea./\$2,987.00  
Column Oven, CTO-20A; HPLC; Precise Temperature Control; Forced-air circulation; Temp setting range 4 to 85 deg. C; Temp. control range 10 deg. C above room temp. to 85 deg. C; 260 W x 415 H x 420mm D; 100V, 500Va, 50/60 Hz

## Convection Ovens

## Fisher Scientific Isotemp Premium Lab Ovens



**13-247-725F** - Ea./\$2,499.53  
Oven; Premium Lab; Fisher Scientific Isotemp; Forced Air; 120V 60Hz, 15A, 1800w; Capacity (Chamber Volume): 2.5 cu. ft.; Model: Small; 23-1/2 L x 25-3/4 W x 26 in. H  
**13-247-737F** - Ea./\$2,818.31  
Forced Air; 3.75 cubic ft.  
**13-247-750F** - Ea./\$3,396.88  
Force Air; 5.0 cu. Ft.

## Vacuum Ovens

## Fisher Scientific Isotemp Vacuum Ovens



**13-262-50** - Ea./\$3,358.57  
Oven, Vacuum; Fisher Scientific Isotemp Model 281A; Capacity: 0.65 cu.ft.; Full-view window; Auto temp backup control; 120V 50/60Hz  
**13-262-52** - Ea./\$6,113.75  
Model 282A; Capacity: 1.5 cu.ft.; 115V 50/60Hz

## Pumps

## Drum Transfer Pumps

## Fisherbrand Variable-Flow Chemical Transfer Pump



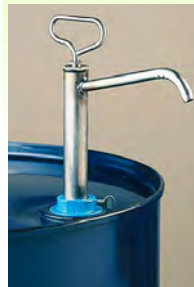
**15-077-67** - Ea./\$276.94  
Pump, Chemical Transfer; Fisherbrand; Variable Flow; Drum; 0.12 to 202L/min.; Viscosity to 200 centipoise (0.2 Pa s). 8 L x 4-3/4 W x 4-1/3 in. H; 1 lb.; Precise, seamless speed control with all-day performance

## Action Pump Siphon Drum Pumps



**01-007-1** - Ea./\$42.00, Cs. of 24/\$689.17  
Pump, Siphon Drum; 2 in. NPT Std; 5 gal./min.  
**01-007-2** - Ea./\$48.62, Cs. of 24/\$879.12  
2 in.; Buttress Thread

## Action Pump Stainless-Steel/PTFE Drum Pump



**01-007-5** - Ea./\$225.00  
Pump; Drum Transfer; Stainless-steel with PTFE tube; Fits 15 to 55 gal. drums; For use with chlorinated and petroleum solvents, such as trichlorethylene, xylene, freon, acetone;  
**Suggested for ASTM Method: D445**

## Peristaltic Pumps

## Fisher Scientific Variable-Flow Peristaltic Pumps



**13-876-4** - Ea./\$232.45  
Pump, Peristaltic; Fisher Scientific; UltraLow Flow; rate: 0.005 to 0.900mL/min.; use with liquids and gases; 6-5/8 L x 4-3/4 W x 4-1/2 in. H; autoclavable tubing; 115V; chemical-resistant ABS plastic case  
**13-876-1** - Ea./\$232.45  
Peristaltic; Low Flow  
**13-876-2** - Ea./\$232.45  
Peristaltic; Medium Flow  
**13-876-3** - Ea./\$451.74  
Peristaltic; Medium High Flow

## Solvent Delivery

## Shimadzu LC-20AD/AT Pumps

**22-845-00132** - Ea./\$5,665.00  
Solvent Delivery Unit; LC-20AT; Dual Reciprocating Plunger Design; Series-type double plunger; Plunger capacity: 47uL Primary, 23uL secondary side; 0.001 to 10.000mL/min. flow rate; 260 W x 140 H x 420 mm D; 100V, 150Va, 50/60Hz  
**22-845-00032** - Ea./\$6,562.50  
Flow rates from 0.0001 to 10mL/min.

## Vacuum Pumps

## Fisher Scientific Maxima C Plus Vacuum Pumps



**01-257-80** - Ea./\$2,919.19  
Pump, Rotary vacuum; Fisher Scientific Maxima C Plus; M8C, single phase, 6.1cfm; 1 x 10-4 torr; 18-1/2L x 6-1/2W x 9-5/8 in. H; 53 lb.; 115V 60Hz; CE, CSA  
**01-257-90** - Ea./\$4,600.25  
M16C, w/explosion-proof motor, 115V

## Shakers

## Retsch Inc. Shaker Siever

**08-417-75** - Ea./\$3,405.10  
Siever, Shaker; AS200; Digital; With Eyeclamp

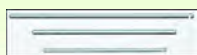
## Stir Bars

### Fisherbrand Octagonal Magnetic Stir Bars



**14-513-59** - Ea./\$6.59, Cs. of 50/\$219.64  
Stir Bar, Magnetic; Fisherbrand; Octagonal; 5/16 in. dia.; 1 in. L; pivot rings; Alnico\_V magnet encased in PTFE; flat surface  
**Suggested for ASTM Method: D512**  
**14-513-60** - Ea./\$7.33, Cs. of 50/\$244.52  
5/16 in. dia.; 1-1/2 in. L

### Fisherbrand Soft Glass Stirring Rods



**11-380B** - Pk. of 72/\$34.18  
Stirring Rods; Fisherbrand; Soft glass; Diameter: 3/16 in. (5mm); Length: 6 in. (150mm)

### Fisherbrand Spinbar Octagonal Magnetic Stir Bar Kit



**14-513-82** - Pk. of 16/\$102.41, Cs. of 6 Pk./\$534.36  
Kit, Magnetic Stir Bar; Fisherbrand; Octagonal; Includes 16 assorted octagonal stir bars packed in compartmented storage box

### Fisherbrand Stir Bar Retrievers



**14-513-70** - Ea./\$16.07, Cs. of 36/\$482.12  
Stir Bar Retriever; Fisherbrand; Polypropylene w/Alnico-V magnet at one end and hanging loop at other; 3/8 dia. x 18 in. L

### Bel-Art Octagonal Stir Bars



**14-513-61** - Ea./\$9.12, Cs. of 50/\$303.92  
Stir Bar, Octagonal; Bel-Art; Magnetic; 5/16 in. dia.; 2 L x 5/16 in. W; Encased in PTFE fluoropolymer  
**14-513-58** - Ea./\$6.06, Cs. of 50/\$202.11  
5/16 in. dia.; 1/2 in. L  
**Suggested for ASTM Method: D512**

## Stirrers

### Fisher Scientific SteadyStir Stirrers

**14-259-701** - Ea./\$919.10  
Stirrer, Overhead; SteadyStir; Analog control; Capacity 20L; Viscosities to 10,000mPas; Speed range 50-2000rpm; Adjustable chuck for shafts 0.5-10mm; Safety circuit; 115V

### IKA Works RW 11 Lab Egg Stirrers



**14-259-59** - Ea./\$362.07  
Stirrers, Motorized; IKA RW 11; Off-white; Glass-bottom motor housing; 8/1w; 14 oz.; 3-3/8 dia. x 3-1/2 in. H; Stainless-steel paddle stirrer; 100-240V, 50/60Hz  
**Suggested for several ASTM Methods.**

## Water Purification

### Millipore SmartPak DQ3 Purification Pack

**SPR00SIA1** - Ea./\$462.23  
Purification Pack; SmartPak DQ3; For use with Direct-Q 3 Ultrapure Water Systems  
**Suggested for several ASTM Methods.**

### Millipore Direct-Q 3 Ultrapure Water Systems



**ZRQSVPOUS** - Ea./\$4,132.00  
System, Water; Direct-Q 3UV; Ultrapure; Type 1 at 25 deg. C >0.13 gal./min.; Type 3 at 25 deg. C 3/4 gal./hr.; 15-3/4 L x 11-3/8 W x 20 in. H; 120V, 60Hz; 16-1/2 lb  
**Suggested for several ASTM Methods.**

## Furniture

## Carts, Utility and Lab

### Rubbermaid Heavy-Duty Utility Carts



**11-926-75** - Ea./\$284.00  
Cart, Service; Heavy-duty; Duramold plastic; (2) shelves; Rounded inside corners; Molded handle; Rounded edges; (2) fixed/(2) swivel 5 IN dia. Casters; Unassembled; Beige; 16L x 30W x 32 IN H

## Fume Hoods

### SafeAire Fume Hoods and Complete Assemblies



**S4008MF** - Ea./\$5,129.88  
Fume Hood, Assembly; Fisher Hamilton SafeAire; Chameleon; 48 in. Hood; 6 x 15 in. collar size; 100 FPM at 18 in. Sash Opening; 485 CFM, .09 SP; 100 FPM at 28.5 in. Sash Opening; 760CFM, .13 SP  
**S4003MF** - Ea./\$3,533.72  
Blue; 48 in. Hood; 6 x 15 in. collar size  
**S4020MF** - Ea./\$5,608.00  
Chameleon; 72 in. Hood; 6 x 23 in. collar size

### Thermo Scientific Hamilton Concept Fume Hoods



**03-421-211** - Ea./\$7,210.65  
Fume Hood, Thermo Scientific Hamilton Concept; 72 in. Hood; Total Exhaust Pressure Loss, 784cfm; Sightline, 35 in.; Overall H x D, 63 1/2 x 31 1/4 in.; For 120V 60Hzxxx



Thermo Scientific Hamilton PaceAire Fume Hood



**HM54L51200B** - Ea./\$4,010.55  
 Fume Hood; Fisher Hamilton PaceAire; Without Blower; Benchtop; Full-view safety glass; 29 in. sash opening; 8 in. dia. exhaust collar; Double-walled, reinforced steel; 23-3/4 L x 36 W x 53 in. H  
**HM54L51300B** - Ea./\$6,184.68  
 With Blower

Work Surfaces

Thermo Scientific Hamilton Fume Hood Work Surfaces

**H2-1L4-826000** - Ea./\$593.34  
 Worksurfaces, Fisher Hamilton; Epoxy Resin; For Concept Fume Hoods; With no Cutouts; Width: 48 in. (122cm); Solid Surface  
**H2-1L9-626000** - Ea./\$1,107.55  
 Width: 96 in. (244cm)

Workstations

Thermo Scientific Hamilton Laboratory Workstations Fume Hood Cabinet Assembly

**S4013MF** - Ea./\$3,881.66  
 Assembly, Thermo Scientific Hamilton SafeAir; Blue; 60 in.  
**HMLAB031** - Ea./\$12,324.00  
 6 ft. Fume  
**HMLAB032** - Ea./\$14,721.00  
 8 ft. Fume

Thermo Scientific Hamilton Laboratory Workstations SafeAir Assembly

**SFH001MF** - Ea./\$4,934.51  
 Assembly, Thermo Scientific Hamilton SafeAir ; 48 in.

Thermo Scientific Hamilton Modular Steel Standing-Height Wall Workstation Assemblies w/Wall Cabinets



**HMLAB008** - Ea./\$8,961.26  
 Workstation, Wall; Assembly; Modular Steel Quickship; Three-cabinet Standing height; With Wall Cabinets; 10 ft. L; With sink; 1 in. thick black epoxy resin worktop with curb; 30 deep x 36-1/4 in. H

Thermo Scientific Hamilton SafeAire II Fume Hood Assemblies

**HMLAB026** - Ea./\$13,513.39  
 Workstation, Fume Hood; Steel 60 in. W; 5 ft.; 1 Acid and 1 Solvent Standard base cabinet  
**HMLAB027** - Ea./\$18,212.99  
 6 ft.  
**HMLAB028** - Ea./\$16,230.45  
 8 ft.

Thermo Scientific Hamilton Vented Workstations



**54L27200** - Ea./\$1,468.40  
 Workstation, Vented; Fisher Hamilton; Benchtop; 1/4 in. Thick acrylic; Width 24 in. (61cm); Fused and polished edges  
**54L27300** - Ea./\$1,557.44  
 Width 36 in. (91.4cm)  
**54L27400** - Ea./\$1,648.40  
 Width 48 in. (121.9cm)

Instruments

Balances

Analytical Balances

Mettler Toledo AL Series Analytical Balances



**01-910-154** - Ea./\$2,606.00  
 Balance, Analytical; Precision; Max. Load 210g; Readability 0.0001g; Simple to operate; Stored menu settings; Wide selection of user programs; Rugged and durable; Battery backup for use in the field; with glass draft shield  
**Suggested for several ASTM Methods.**

Electronic Toploading Balances

Denver Instrument Apex Electronic Toploading Balances: APX-153 to -602



**01-913-86** - Ea./\$775.00  
 Balance, Toploading; Denver Apex Series APX-402; Multiple weigh modes, Automatic calibration, Weighing range: 0 to 400g; Readability: 0.01g; 120V  
**Suggested for several ASTM Methods and UOP 391.**

Mettler Toledo PB-S/FACT Series Balances 2



**01-916-264** - Ea./\$1,728.00  
 Balance, PB-S/FACT Series; PB3002-SDR; Weighing Range: 0 to 3100g/0 to 600g; Readability: 0.1g/0.01g; 12-5/8 L x 9-5/8 W x 3-1/2 in. H; 10-3/4 lbs.; 115/230V, 50/60Hz; 7-1/8 in. Pan size  
**Suggested for several ASTM Methods.**

Moisture Balances

Mettler Toledo HR83 and HG63 Halogen Moisture Analyzers

**01-910-328** - Ea./\$6,065.00  
 Analyzer, Halogen Moisture; Mettler Toledo HR83; 81g capacity x 1mg; Measurement Values: 0.01%; Balance: 1mg; Temp Range: 40-200 deg. C; 4 drying programs; Increments: 1 deg. C; Memory: 40 samples; 110V 50/60Hz  
**Suggested for DDGS Method NFTA 2.2.2.5.**

Balance Accessories

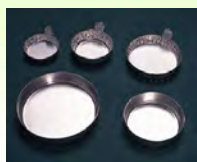
Miscellaneous Accessories for Balances

Mettler Toledo Halogen Moisture Analyzer Temperature Calibration Kits

**01-909-385A** - Ea./\$563.00  
 Kit, Calibration; Mettler Toledo; Use to adjust halogen drying units to ensure consistent results; With NIST certificate  
**01-909-385** - Ea./\$278.00  
 Without certificate

## Weighing Dishes

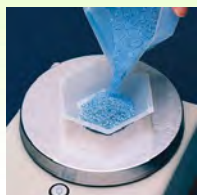
### Fisherbrand Aluminum Weighing Dishes



**08-732-103** - Pk. of 100/\$46.50, Cs. of 10 Pk./\$458.18  
Dishes, Weighing; Fisherbrand; Aluminum; With smooth sides; 2-3/8 fl. oz.; Bottom I.D.: 2.64 in.; Top I.D.: 2.87 in.; Depth: 0.67 in.

**08-732-104** - Pk. of 100/\$57.00, Cs. of 10 Pk./\$698.20  
With Smooth Sides; Capacity: 5 fl. oz. (150mL)

### Fisherbrand Hexagonal Polystyrene Weighing Dishes



**02-202B** - Pk. of 500/\$109.40, Cs. of 6 Pk./\$550.00  
Dish, Weighing; Fisherbrand; Hexagonal; 2-1/2 in. (64mm) Top Opening; 2 in. (51mm) Base; Polystyrene; Disposable; 0.05 oz. (1.4g)

### Fisherbrand Polystyrene Antistatic Weighing Dishes



**08-732-118** - Cs. of 250/\$121.40  
Dish, Weighing; Fisherbrand; Anti-Static; 12mil thick Polystyrene; Pour Boat; 4-3/4 L x 7-3/4 W x 1 in. H; Natural; disposable; flat bottom

## Weighing Funnels

### Fisherbrand Weighing Funnels



**14-353D** - Pk. of 5/\$79.38  
Funnel, Weighing; Fisherbrand; 25 dia. x 55mm L; Borosilicate glass; Tapered pouring neck; Flat bottom; Use in temperatures to 454 deg. C (849 deg. F)

## Balance Weights

### Troemner OIML Class M2 Weight Sets



**02-301-5B** - Ea./\$44.26  
Balance Weights; OIML; Class M2 Weight Set; For routine analytical weighing; 10mg to 100g; Supplied in polypropylene box with cover

## Colorimeters

### Thermo Scientific Orion Aquafast IV Colorimeter



**13-642-157** - Ea./\$1,009.00  
Colorimeter, portable, AQUAfast IV, Orion, auto-identification of species to be measured, waterproof to IP67 standards, stores up to 10 methods

## Electrochemistry

### Conductivity Meters

#### Fisher Scientific Traceable Bench Conductivity Meter



**09-330** - Ea./\$1,038.64  
Meter, Electrochemistry, Conductivity, Benchtop, Fisher Scientific; Traceable; Six modes, Autorange feature; Meets reagent-grade water standards for CAP, ASTM, NCCLS, ACS; Traceable to NIST; 115VAC.  
**Suggested for several ASTM Methods.**

#### Fisher Scientific Traceable Conductivity and Resistivity Meter



**09-327** - Ea./\$386.84  
Meter, Conductivity, Resistivity; Portable; Fisher Scientific; Traceable; Autorange feature; Meets reagent-grade water standards for CAP, ASTM, NCCLS, ACS; Ranges: 0.1 to 200.0umhos or uS (conductivity); 2.0 to 20.00megohms (resistivity)  
**Suggested for several ASTM Methods.**

#### Oakton TDS Testrs 11 and EC Testrs 11 Series



**13-200-275** - Ea./\$79.41  
Total Dissolved Solids Tester; Conductivity Meter; Thermo Scientific; Oakton TDS Testr 11; Ranges of 0 to 2000ppm; 0 to 10.00ppt; Pushbutton calibration, one point per range

## Electrodes

### Fisher Scientific accumet Automatic Temperature Compensation Probes



**13-620-16** - Ea./\$215.88  
Probe, Compensation; accumet Meter; Automatic Temperature; Benchtops; Mini-phone plug connector; For models: XL15, XL20, XL25, XL50, XL60, AB15, AB30, AR10, AR15, AR20, AR25, AR50, AR60  
**Suggested for ASTM Methods: D1160, D6423**  
**13-620-19** - Ea./\$171.09  
For accumet Models: XL15, XL20, XL25, XL50, XL60, AB15, AB30, AR10, AR15, AR20, AR25, AR50 benchtops; 1003, 1002, 1001, BASIC portables.  
Connector: Mini-Phone Plug.  
**Suggested for several ASTM Methods.**

### Fisher Scientific accumet Combination Gas-Sensing ISEs



**13-620-509** - Ea./\$570.55  
Electrode, Ion Selective, Ammonia Gas-Sensing Combination, accumet; Epoxy body, 0.009 to 1700ppm range, 0 to 50 deg. C operating range, 13pH; 102mmL, 13mm dia.; BNC connector

### Fisher Scientific accumet Glass Body Calomel Reference Electrodes



**13-620-57** - Ea./\$150.29

Suggested Indicating Electrodes: 13-620-1, 13-620-295, 13-620-3, 13-620-284, 13-620-186, 13-620-187;  
Special Note: Dri-Pak, with 50mL of saturated KCl. 30 in. (76.2cm) lead.; Model: Low Flowrate/Glass Body; Contains mercury

**Suggested for ASTM Method: D664**

### Fisher Scientific accumet pH Indicating Glass Body Universal Glass Membrane Models



**13-620-284** - Ea./\$149.52

Electrode, pH Indicating; accumet; Glass body; Universal glass membrane; BNC connector; Lead: 30 in.; Suggested Reference Electrodes: 13-620-51, -52, -57, -61, -62, -45, -53, -46, -47

**Suggested for ASTM Method: D664**

### Fisher Scientific accuTupH Plus Rugged Bulb Variable Temperature pH Combination Electrode



**13-620-185** - Ea./\$383.17

Electrode, pH Combination; accuTupH Plus Rugged Bulb Variable Temperature; Double junction, Glass body; Gel-filled; 0-14pH range; -5 to +100 deg. C range; 102mmL, 10mm dia., BNC connector

### Thermo Scientific Orion Ross Series Combination Electrodes



**13-642-243** - Ea./\$439.00

pH Electrode; General Purpose; Ross Sure-Flow; Glass; 16mm Cap dia.; Waterproof connector

**Specified for ASTM Method: D6423**

### Thermo Scientific Orion Ross Series Reference Half-Cell Electrodes



**13-641-795** - Ea./\$356.45

Reference Half Cell Electrodes; Orion; Ross Sure-Flow Reference Model; Pin Connector

## pH Meters

### Fisher Scientific accumet AP60 Series pH Meters

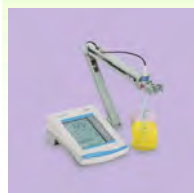


**13-636-AP61** - Ea./\$645.00

Meter, Electrochemistry, pH/Temperature Portable, accumet; AP61 Meter Kit; -1.99 to +19.99 pH range; -5 to +100 degree C range

**Suggested for ASTM Methods: D1688, D6423**

### Fisher Scientific accumet Basic AB15 Basic and BioBasic Meters



**13-636-AB15B** - Ea./\$933.19

Meter BioKit, Electrochemistry, accumet AB15 pH/mV/deg. C; -1.99 to +19.99pH range, 0.1/0.01pH resolution; Includes meter, double-junction combination pH/ATC electrode, electrode support arm, bracke, manual, 115V 60Hz power supply

### Fisher Scientific accumet Excel XL25 pH/mV/Temperature/ISE Meter



**13-636-XL25** - Ea./\$2,176.20

Meter, Electrochemistry; pH/mV/ISE/Temp; accumet Model XL25 Meter Kit; ISE:  $1 \times 10^{-6}$  to  $9.99 \times 10^{10}$ ; pH: -2 to +20; mV: 0 to +/-2000mV; Temperature: -10.0 to +110.0 deg. C; With comb. pH electrode, ATC probe, support and power supply

**Suggested for ASTM Method: D664**

### Thermo Scientific Orion pH/ISE Portable Meter

**13-645-115** - Ea./\$1,070.00

Meter, pH/ISE Portable; Orion; 4-Star; pH: Range: -2.000 to 19.999; ISE: Range: 0 to 19900; mV Range: plus-or-minus 1999.9; 3-button function; Automatic or manual calibration; Accepts ISFET; Meter Kit Orion 4-Star pH/ISE Portable Meter

## Titration

### Brinkmann Metrohm Model 795 Karl Fischer Titrators



**20-858-222** - Ea./\$8,967.50

Titration, Volumetric; Karl Fischer; Model 795; Unit provides 100 ppm to 100 percent H<sub>2</sub>O content measuring range; Create, store 100 methods for samples, reagents; 10 mL buret

**Suggested for ASTM Method: E203**

**20-858-249** - Ea./\$8,967.50

Volumetric Titrator Model 795, 20 mL buret

**Suggested for ASTM Method: E203**

**20-858-265** - Ea./\$8,967.50

Volumetric Titrator Model 795, 50 mL buret

**Suggested for ASTM Method: E203**

Brinkmann Metrohm Models 756 Coulometric Karl Fischer Titrators



**20-815-108** - Ea./\$9,200.00  
 Titration/KF/Coulometric/Metrohm/Model 756 KF/  
 Magnetic Stir Mdl 728/No diaphragm  
**Suggested for ASTM Method: D664**  
**20-815-001** - Ea./\$8,900.00  
 Magnetic Stirrer Mdl 728/Diaphragm

Electrochemistry - Titrator Accessories

Mettler Toledo Titrator Accessories

**01-911-233** - Pk. of 100/\$46.00  
 Syringe, Plastic; For titration; 10mL

Flash Point Testers

Koehler Pensky-Martens Closed Tester



**KL-K16200** - Ea./\$2,078.65  
 Flash Point Tester; Closed tester; KoehlerPensky-  
 Martens; Cover, cast-iron air bath, 750W heater, brass  
 flash point cup, stirrer  
**Suggested for ASTM Method: D93**

Gas Detection Monitors

Industrial Scientific Corporation LEL Monitor

**18-434L** - Ea./\$3,215.99  
 Monitor, LEL; TMX412; O2, H2S, CO

Restek Electronic Leak Detector



**06-750-001** - Ea./\$875.00  
 Detector, Leak; Restek; Electronic; With 110V Battery  
 Charger

Gas Calibration Kits for Monitors

MSA Calibration Gas Cylinders



**18-999-2866** - Ea./\$338.00  
 Cylinder, Calibration Gas; Model RP; 300ppm CO, 1.45%  
 methane, 10ppm H2S, 15% O2 in Nitrogen; Size, 13-3/4L  
 x 3 in. diameter; 58L

Gas Detection Tube Systems

Draeger accuro Bellows Pump



**17-986-70A** - Ea./\$419.33  
 Pump, Bellows; Accuro; Pump only; Used with short-term  
 detector tubes; Convenient, built-in stroke counter records  
 number of strokes performed; Measures 6-3/4L x 1-3/4W  
 x 3-3/8 in. H

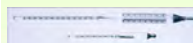
Hydrometers

Fisherbrand Alcohol Hydrometers



**11-590** - Ea./\$49.86  
 Hydrometer, Tralle and Proof Alcohol; Fisherbrand;  
 300mm; 250mL Liquid volume; Tralle scale- 0 to 100%;  
 Proof scale- 0 to 200%; Used by distillers, law enforcement  
 and taxing agencies  
**Suggested for apparent proof.**

Fisherbrand API ASTM Hydrometers Plain Form



**11-603J** - Ea./\$35.50  
 Hydrometer; Gravity; ASTM: 1H; Fisherbrand; Plain Form;  
 API Range:-1 deg. to + 11 deg. ; Use with 260mL liquid  
 volume; Temp. Standardization: 60 deg. F  
**Suggested for ASTM Method: D287**  
**11-603K** - Ea./\$35.50  
 ASTM: 2H; API Range: 9 deg. to 21 deg.  
**Suggested for ASTM Method: D287**  
**11-603A** - Ea./\$35.50  
 ASTM: 3H; API Range: 19 deg. to 31 deg.  
**Suggested for ASTM Method: D287**  
**11-603B** - Ea./\$35.50  
 ASTM: 4H; API Range: 29 deg. to 41 deg.  
**Suggested for ASTM Method: D287**  
**11-603C** - Ea./\$35.50  
 ASTM No. 5H; API Range 39 to 51 deg.; 0.1 division  
**Suggested for apparent proof.**  
**11-603D** - Ea./\$35.50  
 ASTM: 6H; API Range: 49 deg. to 61 deg.  
**Suggested for ASTM Method: D287**  
**11-603E** - Ea./\$35.50  
 ASTM: 7H; API Range: 59 deg. to 71 deg.  
**Suggested for ASTM Method: D287**  
**11-603F** - Ea./\$35.50  
 ASTM: 8H; API Range: 69 deg. to 81degree  
**Suggested for ASTM Method: D287**  
**11-603G** - Ea./\$35.50  
 ASTM: 9H; API Range: 79 deg. to 91 deg.  
**Suggested for ASTM Method: D287**

**11-603H** - Ea./\$35.50  
 ASTM: 10H; API Range: 89 deg. to 101 deg.  
**Suggested for ASTM Method: D287**

**Fisherbrand ASTM Specific Gravity Hydrometers for Liquids Lighter than Water**

**11-603-3T** - Ea./\$36.14  
 Hydrometer, Gravity; ASTM Specific; Fisherbrand; For liquids lighter than Water; 260mL liquid-volume; 103H ASTM No.; 0.700 to 0.750 Sp. Gr. Range; 0.001 Division; 260mm Approx. Length; Temp standard 60 deg. F  
**Suggested for apparent proof.**  
**11-603-4D** - Ea./\$42.57  
 275mL liquid-volume; 85H ASTM No.  
**Suggested for apparent proof.**

**Fisherbrand Brix Thermohydrometers**

**11-603-321** - Ea./\$69.35  
 Thermohydrometer, Brix; Fisherbrand; Range: 0 to 35 deg.; 0.5 deg. Division; 0 to 50 deg. C temp range; 1 deg. Division; 330mm L; Calibrated at 20 deg. C; Correction scale inside; Requires 500mL of liquid in 08-530L cylinder  
**Suggested for apparent proof.**  
**11-603-318** - Ea./\$71.43  
 Range: 39 to 51 deg.; 0.1 deg. Division  
**Suggested for apparent proof.**

**Fisherbrand LPG Specific Gravity Hydrometer**

**11-603-4K** - Ea./\$72.00  
 Hydrometer, Gravity; LPG Specific; Fisherbrand; ASTM No. 101H; 0.500 to 0.650 SP. Gr. Range; 0.001 division; 380mm L; Liquid volume 260mL; Temp range 30 to 90 deg. F  
**Suggested for apparent proof.**

**Fisherbrand Specific Gravity Hydrometers**

**11-510D** - Ea./\$37.43  
 Hydrometer, Specific Gravity; Fisherbrand; Liquids lighter than water; 0.650 to 1.000 Range; 0.005 Division; 305mm L; 250mL Volume; Use with 08-530J Cylinder; Chemical-resistant bulbs and stems  
**Suggested for apparent proof.**  
**11-512D** - Ea./\$36.00  
 Liquids lighter than water; 0.650 to 1.000 Range; 0.010 Division  
**Suggested for apparent proof.**  
**11-512C** - Ea./\$40.31  
 Liquids lighter than water; 0.890 to 1.000 Range; 0.002 Division  
**Suggested for apparent proof.**  
**11-520D** - Ea./\$43.20  
 Liquids heavier than water; 1.600 to 1.820 Range; 0.002 Division  
**Suggested for apparent proof.**

**Thermo Scientific Ever Ready Alcohol Hydrometer**

**22-306-237** - Ea./\$74.53  
 Hydrometer, Alcohol; Ever Ready; IRS Size R  
**Suggested for apparent proof.**

**Ertco Hydrometers**

**22-263-548** - Ea./\$42.23  
 Hydrometer, Specific Gravity; Ertco; High Percision; For liquids heavier and lighter than water; 325mm L; 0.0005 1.060 to 1.130 60/60 deg. F (15.6/15.6 deg. C)  
**Suggested for apparent proof.**

**Ertco Sugar Hydrometers**

**22-306-194** - Ea./\$44.18  
 Hydrometer, Sugar; Ertco; For measuring the concentration of sugar solutions in refineries; 300mm L; 0.1 0 to 11%  
**Suggested for apparent proof.**

# Osmometers

**Advanced Instruments Fiske 210 Micro-Sample Osmometer**



**14-727-420** - Ea./\$9,701.04  
 Osmometer, Micro-sample; Model 210; Advanced Instruments; 15uL sample size; Freezing-point type; Microprocessor-based; Maintenance-free operation; Automatic calibration; Full diagnostic menu

**Advanced Instruments Model 2020 Osmometer**



**22-046-789** - Ea./\$21,150.71  
 Osmometer, Multi-sample; Model 2020; Advanced; 20uL sample size; Stat capability

# Penetrometers

**Koehler Digital Penetrometer**



**22-172-592** - Ea./\$7,706.19  
 Penetrometer, Digital; Koehler; Microprocessor based; Penetration ranged: 0 to 62.0mm (0 to 620 penetration scale) in 1/10mm or 1/100mm; Operator variable penetration interval from 0.1 to 9999.9 seconds; 115V 50/60Hz; 21 lbs.

# Refractometers and Polarimeters

**Fisher Scientific Economy Refractometers**



**13-947Q** - Ea./\$1,166.45  
 Refractometer; Fisher Scientific ; For determination of relative optical dispersion, sugar concentration and total solids in preserves; Identify organic compounds; Description: For 115V AC/DC

**Bellingham and Stanley ADP220 Digital Polarimeter**



**13-645-45** - Ea./\$10,434.87  
 Polarimeter, Digital; ADP220; Automatic; 0.01 deg A/0.01 deg. Z Resolution; +/-0.02 deg. A/+/-0.05 deg. Z Accuracy; LED with interference filter; 4mm dia. Beam

**Polyscience Polarimeters**



**13-793** - Ea./\$5,499.00  
 Polarimeter, Polyscience; Model: Full-circle; Halogen lamp light source; 180 deg. scale; Magnifier and vernier for direct readings to 0.1 deg.; Transformer; One 8 in. (200mm) measuring tube; 15 L x 5 W x 15 in. H (38 x 13 x 38cm); 115V 60Hz

Reichert r2mini Handheld Refractometer



**13-975-411** - Ea./\$299.80  
 Refractometer, Handheld, Reichert; Ultra Durable; r2mini Digital; 1.3330 to 1.4465 RI, 0-62.0% Brix range-s; LCD switchable RI and Brix; IP65 water-resistant and dustproof; use for food, beverage, chemical, pharmaceutical applications

Reichert Rhino Ultra-Durable Handheld Refractometers



**13-975-110** - Ea./\$155.00  
 Refractometers, Handheld; Reichert; Ultra-Durable; Brix50 Model; 0 to 50 % Brix scale reading; 1.4201-1.5177 refractive index range

Specific Gravity Meters

Mettler Toledo Densito 30PX Density Meter

**01-916-223** - Ea./\$2,730.00  
 Meter, Density; Portable; Densito 30PX; Adjustable sampling speed; Measurement range 0 to 2 g/cm<sup>3</sup>. Resolution 0.0001 g/cm<sup>3</sup>; Temp range 5 to 35 deg. C  
**Suggested for ASTM Method: D4052**

Spectrometers

Thermo Scientific Spectronic IR100 FT-IR Spectrometer



**14-200-12** - Ea./\$13,378.99  
 Spectrometer; Thermo Scientific Spectronic Model IR100 FT-IR, Spectral Range 7800 to 350cm<sup>-1</sup>, Spectral Resolution 128 to 4cm<sup>-1</sup>, 110V 60Hz

Thermo Scientific Spectronic IR100 FT-IR Spectrometer Disposable IR Cards

**14-200-19** - Pk. of 25/\$126.69  
 IR Cards; Spectronic; Thermo Scientific; Disposable Polytetrafluoroethylene; Two sampling areas; 25/pack  
**14-200-18** - Pk. of 25/\$121.54  
 Polyethylene

Thermo Scientific Spectronic IR100 FT-IR Spectrometer Starter Kits

**14-200-23** - Ea./\$2,266.00  
 Spectrometer; Advanced Starter Kit for Spectronic IR100 FT-IR; Thermo Scientific; Quik Handi-Press w/die set, pellet holder, Presslok holder  
**14-200-22** - Ea./\$1,287.50  
 Economy Starter Kit

Thermo Scientific Spectronic IR100 FT-IR Spectrometer Swap-Top Modules



**14-200-17** - Ea./\$3,764.20  
 Spectrometer; Spectronic Thunderdome Swap-Top Module; Thermo Scientific; Tilttable Pressure Tower and Germanium Crystal for Powders, Liquids, Solids, Pastes, Gels  
**14-200-15** - Ea./\$2,739.80  
 Multi-Bounce HATR

Thermo Scientific Spectronic IR100 FT-IR Spectrometer Universal Sample Holders

**14-200-20** - Ea./\$121.10  
 Spectrophotometers; Spectronic Sample Holder; Thermo Scientific; Fit in standard slide-card mounts; 13mm diameter  
**14-200-21** - Ea./\$121.54  
 25mm

Spectrophotometers

Thermo Scientific Evolution 60 UV-Vis Spectrophotometer



**14-387-502** - Ea./\$6,038.00  
 Spectrophotometer; Evolution 60 UV-Vis; Thermo Scientific; PC Control w/Visionlite Software; 120V  
**14-387-501** - Ea./\$7,088.00  
 60 Local Control w/printer  
**14-387-500** - Ea./\$6,668.00  
 60 Local Control; w/o printer

Thermo Scientific Evolution 100 UV-Vis Spectrophotometer

**14-386-456** - Ea./\$8,853.00  
 Spectrophotometer, UV-Vis; Evolution 100 LC; Thermostatted rotary 7-cell changer in sample position; 10mm path single cell holder in reference beam; Local control software  
**Suggested for ASTM Method: D1209**

Thermo Scientific Evolution 160 Spectrophotometer



**14-385-603** - Ea./\$8,150.00  
 Spectrophotometer, UV-Vis; Thermo Scientific; Evolution 160; 100/240V

Thermo Scientific Spectronic 20Plus/20DPlus Spectrophotometers



**14-385-130** - Ea./\$1,862.00  
 Spectrophotometer, Digital Model; 20D plus; Single beam optical system; LED readout; 340 to 950nm range; Readout is Absorbance, %Transmittance and Concentration; 13 L x 16-1/4 W x 8-1/4 in. H; Box of twelve 1/2 in. test tube cells  
**Suggested for ASTM Method: D1209**

Thermo Scientific Spectronic Genesys 10 UV Scanning Spectrophotometers



**14-385-373** - Ea./\$5,256.00  
 Spectrophotometer, UV Scanning; Spectronic GENESYS 10; Six-position cell holder and built-in printer; Single-beam grating-based single detector Optical system; 190-1100nm range; +/-1.0nm accuracy; Absorbance, %Transmittance and Concentrati  
**14-385-372** - Ea./\$4,777.00  
 With six-position cell holder  
**14-385-371** - Ea./\$4,777.00  
 With single-cell cuvet holder and built-in printer  
**14-385-370** - Ea./\$4,298.00  
 Uv-Vis Scanning; Dual Detectors

Thermo Scientific Spectronic Genesys 10 UV Spectrophotometers



**14-385-474** - Ea./\$4,896.62  
 Spectrophotometer; Genesys 10 UV; w/6-position cell holder and built-in printer; 190 to 1100nm wavelength range; 5nm spectral bandwidth; 115V 50/60Hz  
**14-385-472** - Ea./\$4,450.63  
 With six-position cell holder  
**14-385-470** - Ea./\$4,450.22  
 With single-cell cuvet holder and built-in printer  
**14-385-468** - Ea./\$4,004.64  
 With single-cell cuvet holder

# Thermal Cyclers

## Eppendorf Mastercycler ep Generation



**E950010045** - Ea./\$10,185.00  
Mastercycler ep gradient S, Motorized lid, 110V, 96-well format, Rates of up to 6 deg. C/sec, Silver block, Protocol optimization via our gradient function (from 1 deg. to 24 deg. C). Use 96-well PCR plates or up to 96 PCR tubes or strips

**E950010011** - Ea./\$7,560.00  
96-well format; Manual lid; Aluminum block

**E950010029** - Ea./\$9,345.00  
96-well format; Motorized lid; Aluminum block

**E950010037** - Ea./\$8,400.00  
96-well format; Manual lid; Silver block

**E950010053** - Ea./\$8,085.00  
384-well format, Manual lid

**E950011009** - Ea./\$2,090.00  
Control Panel; Controls up to 5 Mastercyclers; Color display; Operates via keypad or mouse; Over 700 programs can be saved internally; Infinite external storage

# Thermometers

## Digital Thermometers

### Fisherbrand Digital Thermometers with Stainless-Steel Stem



**15-077-61** - Ea./\$46.22  
Thermometer, Digital; Fisherbrand; Traceable; Long-Stem; Mercury-free; Stainless steel; Fits flasks; Cuvets, Test tubes; Beakers; Accuracy +/-0.5 deg. C; 11-3/8 in. probe

### Fisherbrand Traceable Digital Thermometers With Stainless Steel Probe



**15-077-21** - Ea./\$144.95  
Thermometer, Digital; Fisherbrand; Stainless-steel Probe; On Cable; Traceable; Dual Scale; Range 50 to 260 deg. C; 3/4 in. H LCD Display; Probe type: 1/8 dia. x 4-1/4 in. L; 2-1/2 L x 6-1/2 W x 1 in. H

### Fisherbrand Traceable Thermometer-Clock-Humidity Monitor



**06-662-4** - Ea./\$46.67  
Thermometer; Digital; Fisherbrand Traceable; Dual range: -20 deg. to +70 deg. C/0 deg. to 160 deg. F; 3-line displays; Measures ambient temperature, relative humidity and tells time; With NIST traceable certificate  
**Suggested for ASTM Method: D1160**

## Mercury Filled Thermometers

### Fisherbrand ASTM Thermometers for Flash Point Testing



**13-501** - Ea./\$37.00  
Thermometer; ASTM Type: 9C; Range: -7 deg. to + 110 deg. C; For Flash Point Testing; Contains mercury  
**Suggested for ASTM Method: D93**

**13-500** - Ea./\$37.00  
20 to 230 deg. F; Mercury thermometer  
**Suggested for ASTM Method: D93**

**13-506** - Ea./\$63.00  
90 to + 370 deg. C; Mercury thermometer  
**Suggested for ASTM Method: D93**

**13-505** - Ea./\$63.00  
200 to + 700 deg. F; Mercury thermometer  
**Suggested for ASTM Method: D93**

### Fisherbrand ASTM Thermometers: ASTM 1C-36C

**13-482** - Ea./\$48.99  
Thermometer; Fisherbrand; ASTM No.: 8C; Range: -2 deg. to +400 deg. C; Immersion: Total; Contains mercury  
**Suggested for ASTM Method: D4530**

**13-411** - Ea./\$31.00  
-38.5 to + 50 deg. C; Mercury thermometer  
**Suggested for ASTM Method: D2500**

## Nonmercury Filled Thermometers

### Fisherbrand Blue-Spirit Ever-Safe Laboratory Thermometers

**15-160-25** - Ea./\$21.50  
Thermometers; Blue-Spirit Ever-Safe; Fisherbrand; Partial Immersion (76mm); Division: 2.00 deg. F; Length: 305mm; Range: 0 to 230 deg. F  
**Suggested for ASTM Method: D1160**

## Special Purpose Thermometers

### Fisherbrand API Gravity Thermometers

**11-604** - Ea./\$53.01  
Thermometer; ASTM: 12F; Temperature Range: -5 deg. to +215 deg. F; Division: 0.5 deg. F; Contains mercury  
**Suggested for ASTM Method: D130**

**11-604-5** - Ea./\$55.99  
-20 to + 102 deg. C; Mercury thermometer  
**Suggested for ASTM Method: D130**

### Fisherbrand Exact-Temp Bottle-Encased Freezer Thermometers

**15-171-13** - Ea./\$49.75  
Thermometer, Freezer; Fisherbrand; Exact-temp; Bottle-encased; Blue Spirit; Range -30 to 0 deg. C; 125mm L; 0.5 deg. C 30mL Bottle Subdivision; 30mL Bottle  
**Suggested for ASTM Method: D1160**

### Fisherbrand Exact-Temp Bottle-Encased Oven Thermometers

**13-990-271** - Ea./\$63.99  
Thermometer, Oven; Fisherbrand; Exact-Temp; Bottle-Encased; Certified Chamber; Red Spirit; Oven; +20 to +130 deg. C; Divisions 1.0 deg. C; Bottle Contents: Vermiculite

### Fisherbrand Exact-Temp Bottle-Encased Refrigerator Thermometers

**15-160-11** - Ea./\$48.10  
Thermometer; Fisherbrand Exact-Temp; Type: Refrigerator; Blue-spirit filled; Range: -15 deg. to +15 deg. C; Subdiv.: 0.5 deg. C; Length: 125mm; Teflon coated; Encased in 30mL glycol-filled bottle; With dual magnets  
**Suggested for ASTM Method: D1160**

## Timers

### Fisherbrand Countdown Timers



**15-077-64** - Ea./\$26.30  
 Timer, Countdown; Traceable; Fisherbrand; Accuracy: 0.01%; Timer Range: Two channels; 99 hours, 59 minutes, 59 seconds to 1 second; Display: 3/4 in. H (1.9cm) LCD; Dimensions: 1/2L x 4W x 2 1/2 in. H  
**Suggested for ASTM Methods: D6423, D445**

### Fisherbrand Mechanical Timers



**14-649-57** - Pk. of 3/\$34.23  
 Timer; Quick-Timer; Mechanical; Fisherbrand; Blue/White with magnet on back; Range: 0 to 60 minutes, 1-minute increments; 2 dia. x 1 in.H; Weight: 3 oz.; Indicating pointer; ABS plastic case

### Fisherbrand Traceable Multiple Alarm Timer



**14-649-16** - Ea./\$37.55  
 Timer, Multiple Alarm; Fisherbrand; 96 different alarms daily; Accuracy: 0.01%; 1-year continuous-operation battery; Flip-out stand; Traceable Certificate provided  
**Suggested for ASTM Methods: D6423, D445**

### Fisherbrand Traceable 100-Hour Countdown Alarm Timer/Stopwatches



**06-662-9** - Ea./\$39.49  
 Timer/Stopwatch, Countdown; Traceable; Fisherbrand; 100-hour; With alarm; Four countdown channels; Through-zero feature; Time-out mode; LCD: 5/16 in. H (7.6mm); Easel stand, lapel clip, hole for lanyard and magnetic back

### Fisherbrand Traceable Waterproof/Shockproof Stopwatches



**14-649-11** - Ea./\$16.52  
 Stopwatch; Traceable; Fisherbrand; General-Purpose; Digits are 3/8 in. high; Dimensions: 2 1/8L x 2 3/8W x 1/2 in.H (5.4 x 6 x 1.3cm); Net weight: 1 oz. (28g); Waterproof/Shockproof  
**Suggested for ASTM Method: D445**

### Fisherbrand Traceable Stopwatches



**14-649-8** - Ea./\$60.08  
 Stopwatch, Traceable; Fisherbrand; 2 3/8 dia. X 5/8 in.L; Single-action or continuous timing; Cumulative and interval split functions; ABS case; NIST standards; 0.001% accurate; 2-yr. silver oxide battery; Double-line LCD  
**Suggested for ASTM Method: D445**  
**14-648-1** - Ea./\$25.59  
 Cumulative split function; Single-line LCD  
**Suggested for ASTM Method: D445**

## Viscometers

### Cannon Ubbelohde (UB) Viscometers

**22-274-003** - Ea./\$162.20  
 Viscometer; Cannon Ubbelohde; Tube; Size 3; 1cSt/sec; To determine kinematic viscosities of transparent Newtonian liquid; 11mL, Precision is +/-0.2%, Range: 200 to 1000cSt. ASTM 3.  
**Suggested for ASTM Method: D445**

### Thermo Scientific Haake Viscotester 1 Plus and 2 Plus Rotational Viscometers



**13-874-711** - Ea./\$2,697.69  
 Viscometer; Thermo Scientific Haake Viscotester 1 Plus Rotational Viscometer; Viscosity range: 1.5 to 330mPas, Measuring accuracy: +/-5%, rotor speed: 62.5rpm, one-button operation, digital display  
**13-874-715** - Ea./\$2,697.69  
 Viscometer Haake Vt02+,

### Thermo Scientific Haake Viscotester 550 Rotational Viscometer



**13-874-580** - Ea./\$15,444.00  
 Viscometer, Rotational; ViscoTester 550; Continuous speed; 0.5 to 800rpm speed range; -20 to 100 deg. C range; 2 to 3 min. Typical measuring time; 2 Cups, 2 rotors; +/- 1 % reproducibility; 100-230V 50/60Hz  
**Suggested for ASTM Method: D445**

### Thermo Scientific Haake Viscotester VT6 Plus and VT7 Plus Rotational Viscometers



**13-874-708** - Ea./\$5,605.38  
 Viscometer; Thermo Scientific Haake, Model VT7R; With stand; spindles R2 to R4; 20 to 13 x 106mPas; Pt100 temperature sensor standard  
**Suggested for ASTM Method: D445**



# Viscometer Tubes and Accessories

## Fisherbrand Glass Viscometer Tubes: Kinematic



**13-617B** - Ea./\$189.68  
Viscometer; Tube Accessory; Viscosity Range: 0.8 to 4cSt; ASTM Size: 50; Type: Calibrated, glass

**Suggested for ASTM Method: D445**

**13-617A** - Ea./\$189.68  
0.5 to 2cSt; ASTM Size 25; Glass; Tube

**Suggested for ASTM Method: D445**

**13-617M** - Ea./\$189.68  
1.6 to 8 cST Range; Size 75; Glass

**Suggested for ASTM Method: D445**

**13-617C** - Ea./\$189.68  
3 to 15cST Range; Size 100; Glass

**Suggested for ASTM Method: D445**

## Fisherbrand Viscometer Holders

**13-617-6** - Ea./\$40.19  
Viscometer; Accessory; Holder Type: Molded plastic; For Cannon-Manning Routine/Opaque, Cannon-Manning Semimicro

**Suggested for ASTM Method: D445**

**13-617-7** - Ea./\$21.92

Neoprene rubber

**Suggested for ASTM Method: D445**

# TECHNICAL REFERENCE

## Conversion Factors

Find the unit of measurement from which you want to convert under the column "Unit." Move across the line until you reach the column under the unit to which you want to convert. Multiply your existing measurement by the listed factor to obtain the conversion. (Ex: Suppose you want to convert 5 sq. in. into sq. cm. Find "sq. in." under the "Unit" column in the Area table below. Move across this line until you come to the column under "sq. cm." Multiply 5 sq. in. by 6.452 to get 32.260 sq. cm.)

### Area

Unit	Sq. In.	Sq. Ft.	Sq. Yd.	Sq. cm	Sq. m
Sq. In.	1	0.006944	0.0007716	6.452	0.000645
Sq. Ft.	144	1	0.1111	929	0.0929
Sq. Yd.	1296	9	1	8361	0.8361
Sq. cm	0.155	0.001076	0.0001196	1	0.0001
Sq. m	1550	10.76	1.196	10,000	1

### Force

Unit	Dyne	Lb.	Newton
Dyne	1	$2.248 \times 10^{-6}$	$10^{-5}$
Lb.	444,823	1	4.448
Newton	100,000	0.2248	1

### Heat

1 cal./g•°C = 1BTU/lb.°F = 4.184 joule/g•°C = 4184 joule/kg•°C  
 1 cal./g = 1BTU/lb. = 4.184 joule/g = 4184 joule/kg

### Length

Unit	In.	Ft.	Yd.	Mile (Statute)	cm	m	km
In.	1	0.0833	0.02778	$1.578 \times 10^{-5}$	2.54	0.0254	$2.54 \times 10^{-5}$
Ft.	12	1	0.333	$1.894 \times 10^{-4}$	30.48	0.3048	$3.048 \times 10^{-4}$
Yd.	36	3	1	$5.682 \times 10^{-4}$	91.44	0.9144	$9.144 \times 10^{-4}$
Mile (Statute)	63,360	5280	1760	1	160,900	1609	1.609
cm	0.3937	0.03281	0.01094	$6.214 \times 10^{-6}$	1	0.01	$10^{-5}$
m	39.37	3.281	1.094	$6.214 \times 10^{-4}$	100	1	$10^{-3}$
km	39,370	3281	1094	0.6214	100,000	1000	1

1 angstrom (Å) =  $10^{-10}$ m =  $10^{-8}$ cm =  $10^{-4}$ µm  
 1 fermi = 1 femtometer (fm) =  $10^{-15}$ m =  $10^{-13}$ cm =  $10^{-6}$ µm

1 light-year =  $5.9 \times 10^{12}$  miles (statute) =  $9.46 \times 10^{12}$ km  
 1 micron (µm or µ) =  $10^{-6}$ m =  $10^{-4}$ cm =  $10^{-3}$ mm

### Liquid Measures

(All drams, ounces, quarts, and gallons are U.S. liquid except where indicated.)

Unit	Dram	Oz.	Qt.	Gal.	Cu. In.	Cu. Ft.	mL	L	Cu. cm	Cu. m
Dram	1	0.125	0.00391	$9.766 \times 10^{-4}$	0.2256	$1.3055 \times 10^{-4}$	3.6967	0.0036967	3.6967	---
Oz.	8	1	0.03125	$7.813 \times 10^{-3}$	1.805	$1.0444 \times 10^{-3}$	29.5735	0.02957	29.5735	---
Qt.	256	32	1	0.25	57.75	0.03342	946.4	0.9464	946.4	$9.464 \times 10^{-4}$
Gal.	1024	128	4	1	231	0.1337	3785	3.785	3785	$3.785 \times 10^{-3}$
Cu. In.	4.4329	0.5541	0.01732	$4.329 \times 10^{-3}$	1	$5.787 \times 10^{-4}$	16.39	0.01639	16.39	$1.639 \times 10^{-5}$
Cu. Ft.	7660.05	957.51	29.92	7.48052	1728	1	28,316.9	28.32	28,316.9	$2.832 \times 10^{-2}$
mL	0.2705	0.0338	0.001057	$2.642 \times 10^{-4}$	0.06103	$3.532 \times 10^{-5}$	1	0.001	1	$10^{-6}$
L	270.512	33.814	1.057	0.2642	61.024	0.03531	1000	1	1000	$10^{-3}$
Cu. cm	0.2705	0.0338	0.001057	$2.642 \times 10^{-4}$	0.06103	$3.532 \times 10^{-5}$	1	0.001	1	$10^{-6}$
Cu. m	---	---	1057	264.2	61,023.7	35.31	$10^6$	1000	$10^6$	1

1 gal. U.K. = 1.20095 gal. U.S.  
 1 gal. U.S. = 0.832675 gal. U.K.

1 lb. of water = 27.68 cu. in. = 0.01602 cu. ft. = 0.1198 gal.

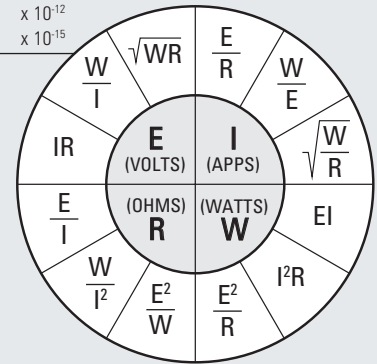
### Inch Equivalents

Fraction (inches)	Decimal (inches)	Millimeters	Fraction (inches)	Decimal (inches)	Millimeters	Fraction (inches)	Decimal (inches)	Millimeters	Fraction (inches)	Decimal (inches)	Millimeters
1/64	0.015625	0.3969	1/4	0.25	6.35	1/2	0.50	12.70	13/16	0.8125	20.6375
1/32	0.03125	0.7938	5/16	0.3125	7.9375	9/16	0.5625	14.2875	7/8	0.875	22.225
1/16	0.0625	1.5875	3/8	0.375	9.525	5/8	0.625	15.875	15/16	0.9375	23.8125
1/8	0.125	3.175	7/16	0.4375	11.1125	11/16	0.6875	17.4625	1	1.0	25.40
3/16	0.1875	4.7625				3/4	0.75	19.05			

### Metric Prefixes

Prefix	Abbreviation	Meaning
peta-	P	$\times 10^{15}$
tera-	T	$\times 10^{12}$
giga-	G	$\times 10^9$
mega-	M	$\times 10^6$
kilo-	k	$\times 10^3$
deci-	d	$\times 10^{-1}$
centi-	c	$\times 10^{-2}$
milli-	m	$\times 10^{-3}$
micro-	µ	$\times 10^{-6}$
nano-	n	$\times 10^{-9}$
pico-	p	$\times 10^{-12}$
femto-	f	$\times 10^{-15}$

### Ohm's Law



# TECHNICAL REFERENCE

## Mass

(Apoth. stands for apothecaries'; avdp. stands for avoirdupois.)

Unit	Grain	Apoth. Scruple	Avdp. Dram	Apoth. Dram	Avdp. Oz.	Apoth. Oz.	Avdp. Lb.	Apoth. Lb.	g	kg	Ton (Short)	Ton (Long)	Ton (Metric)
<b>Grain</b>	1	0.05	0.0365714	0.0167	0.002286	0.002083	0.000142	0.0001736	0.0648	$6.48 \times 10^{-5}$	----	----	----
<b>Apoth. Scruple</b>	20	1	0.7314	0.3333	0.0457	0.0417	0.002857	0.003472	1.296	0.001296	----	----	----
<b>Avdp. Dram</b>	27.3437	1.367	1	0.4557	0.0625	0.0570	0.003906	0.004747	1.7718	0.0017718	----	----	----
<b>Apoth. Dram</b>	60	3	2.1943	1	0.1371429	0.125	0.008571	0.0104	3.8879	0.003888	----	----	----
<b>Avdp. Oz.</b>	437.5	21.875	16	7.292	1	0.9115	0.0625	0.0759	28.3495	0.0283	----	----	----
<b>Apoth. Oz.</b>	480	24	17.554	8	1.09714	1	0.0686	0.08333	31.1035	0.0311	----	----	----
<b>Avdp. Lb.</b>	7000	350	256	116.67	16	14.5833	1	1.21528	453.5924	0.4536	$5 \times 10^{-4}$	$4.464 \times 10^{-4}$	$4.536 \times 10^{-4}$
<b>Apoth. Lb.</b>	5760	288	210.65	96	13.1657	12	0.822857	1	373.2417	0.3732	$4.11 \times 10^{-4}$	$3.6 \times 10^{-4}$	$3.7324 \times 10^{-4}$
<b>g</b>	15.43	0.7716	0.5644	0.2572	0.03527	0.03215	0.002205	0.002679	1	0.001	----	----	----
<b>kg</b>	15,432.4	771.62	564.38	257.21	35.274	32.151	2.205	2.679	1000	1	$1.102 \times 10^{-3}$	$9.842 \times 10^{-4}$	$10^{-3}$
<b>Ton (Short)</b>	----	----	----	----	----	----	2000	2430.56	----	907.1847	1	0.89286	0.9072
<b>Ton (Long)</b>	----	----	----	----	----	----	2240	2722.22	----	1016	1.12	1	1.016
<b>Ton (Metric)</b>	----	----	----	----	----	----	2205	2679.229	----	1000	1.1023	0.9842	1

Weight = Mass  $\times$  9.80665m/sec.<sup>2</sup>

## Power

Unit	BTU/min.	Ft.-lb./sec.	hp	Joule/sec.	kW	Watt
<b>BTU/min.</b>	1	12.96	0.02356	17.57	0.01757	17.57
<b>Ft.-lb./sec.</b>	0.077 <sup>1</sup>	1	0.001818	1.356	0.001356	1.356
<b>hp</b>	42.44	550	1	745.7	0.7457	745.7
<b>Joule (abs.)/sec.</b>	0.0569	0.7378	0.001341	1	0.001	1
<b>kW</b>	56.83 <sup>1</sup>	737.6	1.341	1000	1	1000
<b>Watt</b>	0.057 <sup>1</sup>	0.7378	0.001341	1	0.001	1

<sup>1</sup>BTU (mean)/min.

## Velocity

(All miles are statute.)

Unit	Ft./sec.	Miles/hr.	m/min.	km/hr.
<b>Ft./sec.</b>	1	0.6818	18.29	1.097
<b>Miles/hr.</b>	1.467	1	26.82	1.609
<b>m/min.</b>	0.05468	0.03728	1	0.06
<b>km/hr.</b>	0.9113	0.6214	16.67	1

## Volume

Unit	Cu. In.	Cu. Ft.	Cu. Yd.	Cu. cm	Cu. m
<b>Cu. In.</b>	1	$5.787 \times 10^{-4}$	$2.143 \times 10^{-5}$	16.39	$1.639 \times 10^{-5}$
<b>Cu. Ft.</b>	1728	1	0.03704	28,316.85	0.02832
<b>Cu. Yd.</b>	46,656	27	1	764,600	0.7646
<b>Cu. cm</b>	0.06102	$3.531 \times 10^{-5}$	$1.3 \times 10^{-6}$	1	$10^{-6}$
<b>Cu. m</b>	61,023.74	35.31	1.308	$10^6$	1

## Work and Energy

Unit	BTU	Cal./g (IST <sup>1</sup> )	Erg	Ft.-lb.	Joule	kW-hr.
<b>BTU</b>	1	252	$1.05 \times 10^{10}$	778	1054.8	0.00029
<b>Cal./g</b>	0.00397	----	$4.18 \times 10^7$	3.08596	4.184	$1.16 \times 10^{-6}$
<b>Erg</b>	$9.48 \times 10^{-11}$	$2.39 \times 10^{-8}$	1	$7.4 \times 10^{-8}$	$10^{-7}$	$2.778 \times 10^{-14}$
<b>Ft.-lb.</b>	0.00129	0.3238	$1.356 \times 10^7$	1	1.356	$3.766 \times 10^{-7}$
<b>Joule (abs.)</b>	$9.48 \times 10^{-4}$	0.2389	$10^7$	0.7376	1	$2.78 \times 10^{-7}$
<b>kW-hr.</b>	3410 <sup>11</sup>	$8.6 \times 10^5$	$3.6 \times 10^{13}$	$2.66 \times 10^6$	$3.6 \times 10^6$	1

<sup>1</sup>International Steam Table.

<sup>11</sup>BTU (mean).

1 electron volt (eV) =  $1.6 \times 10^{-19}$  joule

**Table 1. Methods by Industry**

<b>Bioethanol</b>		
<b>Test Method</b>	<b>Property</b>	<b>Technique</b>
ASTM D4806	General specification	
ASTM D1613	Acidity, %	Titration with sodium hydroxide to color change.
ASTM D1688	Copper content	Atomic absorption with wet chemistry prep
ASTM D381	Gum content	Heated evaporation and weighing using water or solid block bath and steam source, directed into the sample.
ASTM D2622	Sulfur content	Combustion, UV or X-ray Fluorescence
ASTM D512	Inorganic Chloride	3 methods: 2 wet chemistry titrations, 1 pH meter with chloride electrode.
ASTM D5501	Ethanol, %	Gas chromatography
ASTM D5501	Methanol, %	Gas chromatography
ASTM D6423	pHe	Measurement with pH meter, Orion electrode
ASTM E1064, E203	Water content	Wet chemistry Karl Fischer titration- coulometric, volumetric
ASTM D891	Specific Gravity	Weighing standard volume
ASTM D1152	Methanol, %	Conformance testing to several specifications.
ASTM D3120	Sulfur content	Oxidative microcoulometry.
<b>Source: <a href="http://www.ethanolrfa.org/objects/pdf/newRFA%20Fuel%20Ethanol%20960501.pdf">http://www.ethanolrfa.org/objects/pdf/newRFA%20Fuel%20Ethanol%20960501.pdf</a></b>		
<b>Biodiesel</b>		
<b>Test Method</b>	<b>Property</b>	<b>Technique</b>
ASTM D6751	General specification	
ASTM D130	Color	Color change in copper strip after immersion in sample.
ASTM D1160	Component boiling points	Vacuum distillation apparatus.
ASTM D1209	Color	Spectrophotometric
ASTM D1353	Solids	Heated sample (105C) in weigh dish.
ASTM D2500	Cloud point	Cooling bath, special jar.
ASTM D2709	Water and sediment	Centrifuge with special beaker.
ASTM D3606	Benzene and Toluene content	Gas chromatography.
ASTM D4052	Density	Digital Density Analyzer.
ASTM D445	Viscosity	Automated viscometers.
ASTM D4530	Carbon content	Weight after pyrolysis.
ASTM D4951	Additive content	Inductively coupled plasma (ICP) atomic spectrometry
ASTM D5453	Sulfur content	Ultraviolet fluorescence (UVF) detector, combustion tube.
ASTM D613	Cetane number	Combustion characteristics in test engine.
ASTM D6550	Olefin content	Super-critical fluid chromatograph
ASTM D6584	Glycerin content	Gas chromatography.
ASTM D664	Acid number	Manual titrator, pH meters, combination electrodes.
ASTM D874	Sulfur content	Muffle furnace (775F)
ASTM D93	Flash point	Flash point tester.
<b>Source: <a href="http://www.nrel.gov/docs/fy06osti/40555.pdf">www.nrel.gov/docs/fy06osti/40555.pdf</a></b>		

**Table 1. Methods by Industry**

<b>E85 Blending</b>		
<b>Test Method</b>	<b>Property</b>	<b>Technique</b>
ASTM D5798	General specification	
ASTM D1613	Acidity, %	Titration with sodium hydroxide to color change.
ASTM D1688	Copper content	Atomic absorption with wet chemistry prep.
ASTM D3120, D1266, D2622	Sulfur content	Oxidative microcoulometry, UV or X-ray fluorescence.
ASTM D3231	Phosphorus content	Spectrophotometer.
ASTM D381	Gum content	Heated evaporation and weighing using water or solid block bath and steam source, directed into the sample.
ASTM D4815	Hydrocarbon content	Gas chromatography.
ASTM D4929	Total chloride	Distillation followed by a: sodium biphenyl reduction or b: microcoulometry.
ASTM D4953	Vapor pressure	Modified Reid method.
ASTM D5059	Lead content	X-ray dispersive.
ASTM D512	Inorganic chloride	3 methods: 2 wet chemistry titrations, 1 pH meter with chloride electrode.
ASTM D5190, D5191	Vapor pressure	Vacuum distillation apparatus.
ASTM D5501	Ethanol content	Gas chromatography.
ASTM D512	Inorganic chloride	Titration or ion-selective electrode.
ASTM E203	Water content	Volumetric Karl Fischer titration.
<b>Source: <a href="http://www.eere.energy.gov/afdc/e85toolkit/e85_specs.html">www.eere.energy.gov/afdc/e85toolkit/e85_specs.html</a></b>		

<b>DDGS</b>		
<b>Test Method</b>	<b>Property</b>	<b>Technique</b>
NFTA 2.2.2.5	Moisture content	Weight loss on drying.
AOAC 990.03*	Crude protein content	Combustion
AOAC 2001.11*	Crude protein content	Copper catalyst.
AOAC 945.16	Crude fat content	Petroleum ether.
AOAC 978.10	Crude fiber content	F.G. crucible.
<i>*Methods are statistically similar and either is acceptable for use on DDGS.</i>		
<b>Source: <a href="http://www.afia.org/img/assets/1176/DDGS_.pdf?DDGS+.pdf">www.afia.org/img/assets/1176/DDGS_.pdf?DDGS+.pdf</a></b>		

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**Table 2. Methods in Sequence**

Test Method	Property	Technique	Bioethanol	Biodiesel	E85 Blending	DDGS
ASTM D93	Flash point	Flash point tester.		x		
ASTM D130	Color	Color change in copper strip after immersion in sample.		x		
ASTM D381	Gum content	Heated evaporation and weighing using water or solid block bath and steam source, directed into the sample.	x		x	
ASTM D445	Viscosity	Automated viscometers.		x		
ASTM D512	Inorganic Chloride	Titration or ion-selective electrode.	x		x	
ASTM D613	Cetane number	Combustion characteristics in test engine.		x		
ASTM D664	Acid number	Manual titrator, pH meters, combination electrodes.		x		
ASTM D874	Sulfur content	Muffle furnace (775F)		x		
ASTM D891	Specific Gravity	Weighing standard volume	x			
ASTM D1152	Methanol, %	Conformance testing to several specifications.	x			
ASTM D1160	Component boiling points	Vacuum distillation apparatus.		x		
ASTM D1209	Color	Spectrophotometric		x		
ASTM D1353	Solids	Heated sample (105C) in weigh dish.		x		
ASTM D1613	Acidity, %	Titration with sodium hydroxide to color change.	x		x	
ASTM D1688	Copper content	Atomic absorption with wet chemistry prep	x		x	
ASTM D2500	Cloud point	Cooling bath, special jar.		x		
ASTM D2622	Sulfur content	Combustion, UV or X-ray Fluorescence	x			
ASTM D2709	Water and sediment	Centrifuge with special beaker.		x		
ASTM D3120	Sulfur content	Oxidative microcoulometry.	x		x	
ASTM D1266, D2622	Sulfur content	UV or X-ray fluorescence.			x	
ASTM D3231	Phosphorus content	Spectrophotometer.			x	
ASTM D3606	Benzene and toluene content	Gas chromatography		x		
ASTM D4052	Density	Digital Density Analyzer.		x		
ASTM D4530	Carbon content	Weight after pyrolysis.		x		
ASTM D4806	General specification		x			
ASTM D4815	Hydrocarbon content				x	
ASTM D4929	Total chloride	Distillation followed by a: sodium biphenyl reduction or b:			x	
ASTM D4951	Additive content	Inductively coupled plasma (ICP) atomic spectrometry		x		
ASTM D4953	Vapor pressure	Modified Reid method.			x	
ASTM D5059	Lead content	X-ray dispersive.			x	
ASTM D5190, D5191	Vapor pressure	Vacuum distillation apparatus.			x	
ASTM D5453	Sulfur content	Ultraviolet fluorescence (UVF) detector, combustion tube.		x		
ASTM D5501	Ethanol, Methanol content	Gas chromatography	x		x	
ASTM D5798	General specification				x	
ASTM D6423	pHe	Measurement with pH meter, Orion electrode	x			
ASTM D6550	Olefin content	Super-critical fluid chromatograph		x		
ASTM D6584	Glycerin content	Gas chromatography.		x		
ASTM D6751	General specification			x		
ASTM E1064, E203	Water content	Wet chemistry Karl Fischer titration- coulometric, volumetric	x			
ASTM E203	Water content	Volumetric Karl Fischer titration.			x	
AOAC 990.03*	Crude protein content	Combustion				x
AOAC 2001.11*	Crude protein content	Copper catalyst.				x
<b>*Methods are statistically similar and either is acceptable for use on DDGS.</b>						
AOAC 945.16	Crude fat content	Petroleum ether.				x
AOAC 978.10	Crude fiber content	F.G. crucible.				x
NFTA 2.2.2.5	Moisture content	Weight loss on drying.				x
<b>Sources:</b>						
<a href="http://www.ethanolrfa.org/objects/pdf/newRFA%20Fuel%20Ethanol%20960501.pdf">www.ethanolrfa.org/objects/pdf/newRFA%20Fuel%20Ethanol%20960501.pdf</a>			x			
<a href="http://www.nrel.gov/docs/fy06osti/40555.pdf">www.nrel.gov/docs/fy06osti/40555.pdf</a>				x		
<a href="http://www.eere.energy.gov/afdc/e85toolkit/e85_specs.html">www.eere.energy.gov/afdc/e85toolkit/e85_specs.html</a>					x	
<a href="http://www.afia.org/img/assets/1176/DDGS_.pdf?DDGS+.pdf">www.afia.org/img/assets/1176/DDGS_.pdf?DDGS+.pdf</a>						x

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# HOW BLUE IS YOUR LAB?

1	<b>H</b> 1 1.008 Hydrogen	2	<b>He</b> 2 4.003 Helium
2	<b>Li</b> 3 6.941 Lithium	<b>Be</b> 4 9.012 Beryllium	<b>B</b> 5 10.811 Boron
3	<b>Na</b> 11 22.990 Sodium	<b>Mg</b> 12 24.305 Magnesium	<b>C</b> 6 12.011 Carbon
4	<b>K</b> 19 39.098 Potassium	<b>Ca</b> 20 40.078 Calcium	<b>N</b> 7 14.007 Nitrogen
5	<b>Rb</b> 37 85.468 Rubidium	<b>Sr</b> 38 87.62 Strontium	<b>O</b> 8 15.999 Oxygen
6	<b>Cs</b> 55 132.905 Cesium	<b>Ba</b> 56 137.327 Barium	<b>F</b> 9 18.998 Fluorine
7	<b>Fr</b> 87 (223) Francium	<b>Ra</b> 88 226.025 Radium	<b>Ne</b> 10 20.180 Neon
8	<b>Sc</b> 21 44.956 Scandium	<b>Ti</b> 22 47.88 Titanium	<b>Al</b> 13 26.982 Aluminum
9	<b>Y</b> 39 88.906 Yttrium	<b>Zr</b> 40 91.224 Zirconium	<b>Si</b> 14 28.086 Silicon
10	<b>Lu</b> 71 174.967 Lutetium	<b>Hf</b> 72 178.49 Hafnium	<b>P</b> 15 30.974 Phosphorus
11	<b>Lr</b> 103 (260) Lawrencium	<b>Rf</b> 104 318 Rutherfordium	<b>S</b> 16 32.065 Sulfur
12	<b>Sc</b> 21 44.956 Scandium	<b>Co</b> 27 58.933 Cobalt	<b>Cl</b> 17 35.453 Chlorine
13	<b>Y</b> 39 88.906 Yttrium	<b>Ni</b> 28 58.69 Nickel	<b>Ar</b> 18 39.948 Argon
14	<b>Lu</b> 71 174.967 Lutetium	<b>Cu</b> 29 63.546 Copper	<b>Kr</b> 36 83.80 Krypton
15	<b>Lr</b> 103 (260) Lawrencium	<b>Zn</b> 30 65.39 Zinc	<b>Xe</b> 54 131.29 Xenon
16	<b>Sc</b> 21 44.956 Scandium	<b>Ga</b> 31 69.723 Gallium	<b>Rn</b> 86 (222) Radon
17	<b>Y</b> 39 88.906 Yttrium	<b>Ge</b> 32 72.61 Germanium	<b>At</b> 85 (210) Astatine
18	<b>Lu</b> 71 174.967 Lutetium	<b>As</b> 33 74.922 Arsenic	<b>Po</b> 84 (209) Polonium
19	<b>Lr</b> 103 (260) Lawrencium	<b>Se</b> 34 78.96 Selenium	<b>At</b> 85 (210) Astatine
20	<b>Sc</b> 21 44.956 Scandium	<b>Br</b> 35 79.904 Bromine	<b>Po</b> 84 (209) Polonium
21	<b>Y</b> 39 88.906 Yttrium	<b>Kr</b> 36 83.80 Krypton	<b>At</b> 85 (210) Astatine
22	<b>Lu</b> 71 174.967 Lutetium	<b>Sb</b> 51 121.75 Antimony	<b>Po</b> 84 (209) Polonium
23	<b>Lr</b> 103 (260) Lawrencium	<b>Te</b> 52 127.60 Tellurium	<b>At</b> 85 (210) Astatine
24	<b>Sc</b> 21 44.956 Scandium	<b>I</b> 53 126.905 Iodine	<b>Po</b> 84 (209) Polonium
25	<b>Y</b> 39 88.906 Yttrium	<b>Xe</b> 54 131.29 Xenon	<b>At</b> 85 (210) Astatine
26	<b>Lu</b> 71 174.967 Lutetium	<b>Fr</b> 87 223 Francium	<b>Po</b> 84 (209) Polonium
27	<b>Lr</b> 103 (260) Lawrencium	<b>Ra</b> 88 226.025 Radium	<b>At</b> 85 (210) Astatine

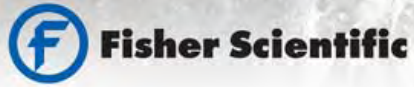
Chemicals • Consumables • Laboratory Equipment

**KEY TO TABLE**



- Alkaline Metals
- Alkaline – Earth Metals
- Transition Elements
- Metals
- Non-Metals
- Noble Gases

<b>La</b> 57 138.905 Lanthanum	<b>Ce</b> 58 140.115 Cerium	<b>Pr</b> 59 140.908 Praseodymium	<b>Nd</b> 60 144.24 Neodymium	<b>Pm</b> 61 (145) Promethium	<b>Sm</b> 62 150.36 Samarium	<b>Eu</b> 63 151.965 Europium	<b>Gd</b> 64 157.25 Gadolinium	<b>Tb</b> 65 158.925 Terbium	<b>Dy</b> 66 162.50 Dysprosium	<b>Ho</b> 67 164.93 Holmium	<b>Er</b> 68 167.26 Erbium	<b>Tm</b> 69 168.934 Thulium	<b>Yb</b> 70 173.04 Ytterbium
<b>Ac</b> 89 227.028 Actinium	<b>Th</b> 90 232.038 Thorium	<b>Pa</b> 91 231.036 Protactinium	<b>U</b> 92 238.029 Uranium	<b>Np</b> 93 237.048 Neptunium	<b>Pu</b> 94 244 Plutonium	<b>Am</b> 95 243 Americium	<b>Cm</b> 96 247 Curium	<b>Bk</b> 97 247 Berkelium	<b>Cf</b> 98 251 Californium	<b>Es</b> 99 252 Einsteinium	<b>Fm</b> 100 257 Fermium	<b>Md</b> 101 258 Mendelevium	<b>No</b> 102 259 Nobelium



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