

ChemCom - Chemistry in the Community

A Project of the American Chemical Society

Expendable Items Supply List from the 1993 Edition

Published by Kendall Hunt

Compiled 1/2001

Notes:

1. ChemCom Section Codes are:
 - W - Supplying our Water Needs
 - R - Conserving Chemical Resources
 - P - Petroleum: To build? To Burn?
 - F - Understanding Food
 - N - Nuclear Chemistry in Our World
 - A - Chemistry, Air and Climate
 - H - Health: Your Risks and Choices
 - I - The Chemical Industry: Promise and Challenge
2. Items that do not have a Catalog Number shown should be purchased locally. Items normally found in the laboratory (beakers, flasks, thermometers...) are not shown on this list.
3. Chemicals are supplied in the package that is closest in quantity to the quantity required by the ChemCom List. Some chemicals, used only in small quantities, are packaged in the WLC9002 ChemCom Chemicals Kit shown at the end of this list. They are also shown with a *** next to the chemical's name in the main part of the list.
4. Prices shown are total prices for the item shown. Prices are current as of the compilation date of this list, but are subject to change. Sargent-Welch shall not be held liable for typographic errors in this list.
5. ChemCom is a project of the American Chemical Society, who neither recommend nor endorse specific materials or suppliers.
6. Additional copies of this list are available upon request.

Sargent-Welch
P. O. Box 5229
Buffalo Grove, IL 60089-5229
1-800-727-4368
Toll-free FAX Order Line: 1-800-676-2540

E-mail: sarwel@sargentwelch.com

C9002 ChemCom Small Package Size Chemicals Kit

These chemicals are needed in small quantity in version 2 of the ChemCom curriculum. The chemicals are packaged in the sizes shown below, which is the quantity required for one class of 24 students. The chemicals are in bottles, with a booklet of MSDS sheets included. This kit will minimize storage and disposal problems.

Chemical	Package Size
Ammonium Chloride Crystal	25 g
Ammonium Molybdate	10 g
Ammonium Nitrate	5 g
Amyl Alcohol	10 mL
Benzoic Acid	10 g
Boric Acid	15 g
Calcium Chloride, Anhydrous	3 g
Citric Acid	6 g
Cuprous Chloride, 2-Hydrate	15 g
Ferrous Sulfate, 7-Hydrate	20 g
Iodine, Crystals	1 g
Manganese (IV) Oxide	15 g
Naphthalene	25 g
1-Naphthol	5 g
Octyl Alcohol	10 mL
Pepsin Enzyme Powder	5 g
Potassium Dihydrogen Phosphate	5 g
Potassium Iodate	1 g
Potassium Iodide	10 g
Potassium Hydrogen Phosphate	2 g
Potassium Nitrate	5 g
Potassium Thiocyanate	5 g
Propanoic Acid	10 g
Salicylic Acid	20 g
Sodium Carbonate, 1-Hydrate	15 g
Sodium Bicarbonate	15 g
Sodium Nitrate	5 g
Sodium Oxalate, 1-Hydrate	3 g
Sodium Phosphate, 12-Hydrate	10 g
Sodium Sulfate, 10-Hydrate	10 g
Sodium Sulfite	2 g
Starch, Water Soluble	3 g
Urea, Crystals	25 g
Zinc Metal, Granulated	10 g

WLC9002

ChemCom Chemical Set

\$120.00

Expendable Items for ChemCom

Quant. Req'd.	Catalog No	Pkg. Size	Description	Per Lab.	Units	Page	List Price
1	WLC3016E	500 ml	Acetic Acid, Concentrated	61 ml	W/P/F	561	\$13.80
1			Acrylic Sheets	12	H		
1	WLC3058R	125 g	Albumin Powder	20 g	H	562	\$10.50
1	WLC3991E	500 ml	Alcohol, 2-propanol (Isopropanol)	300 ml	N/H	582	\$5.30
1	WL20086		Algae, <i>filamentous Spirogyra</i> , Strands	200	F	65	\$6.99
			Algae Water	200 ml	F		
2 pkg	WLC3067Y	pk/36	Alka Seltzer™ Tablets	40 ea	A	562	\$10.10
1	WLC3121F	1 l	Ammonia Water, Concentrated (Demo)	100 ml	A	564	\$6.40
1	WLC3136T	500 g	***Ammonium Chloride, Crystals	25 g	W	564	\$6.70
1	WLC3151E	500 ml	Ammonium Hydroxide, Concentrated	15 ml	A	564	\$10.40
1	WLC3160Q	100 g	***Ammonium Molybdate	10 g	I	564	\$19.00
1	WLC3166T	500 g	***Ammonium Nitrate	5 g	I	564	\$8.90
1	WLC3199E	500 ml	***Amyl Alcohol, Pentanol (Optional)	10 ml	P	565	\$13.90
1	WL26085	40 g	Amylase Enzyme Powder	2 g	H	275	\$10.10
			Apples	2	A		
1	WLC3211Q	25 g	Ascorbic Acid (Vitamin C) Crystals	21 g	F/I	566	\$6.00
			Asphalt, Pieces	15	P		
1 pkg	WLS71824-05		Balloons, Small (Demo)	10	F	1108	\$2.35
1 pkg	WLS71824-10		Balloons, Large (Demo)	10	A	1108	\$3.20
1	WLC3235R	100 g	Barium Chloride Dihydrate	85 g	W/F/I	566	\$6.50
1	WLC3259E	500 ml	Benedict's Qualitative Solution	300 ml	H	567	\$5.10
1	WLC3274R	100 g	***Benzoic Acid (Optional)	10 g	P	567	\$10.90
			Beverage Samples	400 ml	F		
1	WLC3289C	100 ml	Biuret Reagent	50 ml	F	568	\$4.05
1	WLC3295S	250 g	Boiling Chips	100 g	F	568	\$4.75
1	WLC3301T	500 g	***Boric Acid (Demo)	15 g	H	568	\$8.40
2			Bottle, Soft Drink, Empty (Demo)	1	A		
1			Bottle, Plastic, with Lid (Demo)	1	A		
8			Boxes, Shoe	8	N		
15			Boxes, Cardboard, with Lid	8	N		
1	WLC3322C	100 ml	Bromthymol Blue Indicator Solution	100 ml	A	568	\$3.00
1	WLC3412T	500 g	***Calcium Chloride (Anhydrous)	3 g	W	570	\$6.90
1 pkg	EM-SX0583-3		Calgon (Sodium Hexametaphosphate)	1 pkg	W		\$50.00
			Can, Aluminum Soft Drink	13	P/A		

*** This chemical is available in the ChemCom Chemical package, WLC9002 shown at the end of this list.

Compiled for you by:

Sargent-Welch/Cenco Physics

1-800.727.4368

Order FAX: 1-800.676.2540

Expendable Items for ChemCom

Quant. Req'd.		Catalog No	Pkg. Size	Description	Per Lab.	Units	Page	List Price
2	Pkg	WLS14545-20	pk/24	Candles, Birthday	24	A	1147	\$1.55
1		WLS14546		Candles, Paraffin	35	P/A	1147	\$1.70
1	pkg	WLS44847-05BB	pk/100	Capillary Melting Point Tubes	24	A	1202	\$10.50
1	pkg	WLS8195		Carbon, Graphite Sticks	70 g	R	1152	\$17.50
1		WLS37255		Carbon Dioxide Gas, Cylinder	1	A	516	\$151.00
1		WLS65223-05A	pk/500	Wax Paper, 3" x 3"	17 pc	N/A	1124	\$6.50
1		WLS1050-05	1 lb	Charcoal, Activated	200 g	W	80	\$3.30
1		WLC3511T	500 g	Charcoal, Wood, Granular (Optional)	90 g	R	572	\$15.00
				Cigarettes, Filtered and Unfiltered	2 packs	H		
1		WLC3556R	100 g	***Citric Acid (Demo)	6 g	H	573	\$4.70
1	pkg	WL6852		Clay or Cornstarch	200 g	W	1108	\$3.55
				Cloth Pieces	12	N		
				Coffee Grounds, Used	1/2 cup	W		
1		WLC3631R	100 g	***Copper (II) Chloride Dihydrate	14 g	R	574	\$5.60
1		WLC3607R	100 g	Copper Filings	70g	A	574	\$13.30
1	roll	WLC3589T	500 g	Copper Foil	150 cm ²	R/I	574	\$25.70
1		WLC3637T	500 g	Copper (II) Nitrate	370 g	R/I	574	\$38.20
1		WLC3640R	100 g	Copper (II) Nitrate Trihydrate	75 g	I	575	\$7.50
1		WLC3643R	100 g	Copper (II) Oxide (Optional)	50 g	R	575	\$15.00
1		WLC3649T	500 g	Copper (II) Sulfate Pentahydrate	450 g	W/I	575	\$8.20
1	roll	WLS85135-F		Copper Wire, 24 Gauge	200 cm	A/H	1279	\$5.75
1		WLA5754		Cotton Balls	100	F/A	1160	\$4.60
20		WLA5767	pk/80	Cups, Paper	20	W	1108	\$3.95
1		WLA5664-10	22 oz	Detergent, Liquid Dish (Demo)	30 ml	A	1108	\$4.05
				Dry Ice (Demos)	5.5 lbs	N/A		
				Eggs	2	H		
1	pkg	WL23224	pk/12	<i>Elodea</i> Plant (Demo)	4	A	84	\$5.59
1		WLC3733F	1 l	Ethanol, Denatured	230 ml	W/P/F	577	\$7.00
1	pkg	WL50106		<i>Euglena</i> Culture	230 ml	H	65	\$7.59
3	pkg	WLS33215-E	100/pk	Filter Paper, 11 cm Diameter, #1	230	W/F	1180	\$8.20
				Food Samples	5 ea	F		
				Garlic Powder	1 tsp	W		
				Gas Lantern Mantles	12	N		
1	pkg	WLS40125-10E	5 lb	Glass Tubing, 6 mm Diameter (Optional)	5 m	R	1275	\$30.55

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Quant. Reqd.		Catalog No	Pkg. Size	Description	Per Lab.	Units	Page	List Price
1	pkg	WLS40272-KB	pk/100	Gloves, Disposable, Medium	36 pr	N/A	1220	\$7.40
1		WLC3841E	500 ml	Glycerin	30 ml	A	579	\$9.20
1		WLS65181	pk/100	Graph Paper, Linear	50 sheets	N	1206	\$18.30
1		WLS1053-B	5 lb.	Gravel, Fine	2 kg	W	81	\$4.70
				Hair Strands	500	H		
				Hard Water (Ca2+)	1 l	W		
1		WLS37305		Helium Gas Cylinder (Demo)	1	A	516	\$128.00
2		WLC3871E	500 ml	Hexane	900 ml	W/P	579	\$10.40
3	pkg	WLS65260		Hydrion Paper AB, Full Scale	3 pkg	A/H	496	\$5.90
1		WLC3895E	500 ml	Hydrochloric Acid, Concentrated	500 ml	R/F/A/H/I	580	\$12.10
1		WLS37315		Hydrogen Gas Cylinder (Demo)	1	A	516	\$140.00
4		WLC3919E	500 ml	Hydrogen Peroxide, 3% Solution	4	F/A/H	580	\$4.00
1		WLC3958T	500 g	***Iodine Crystals	500 g	A	581	\$65.50
				Ion Exchange Resin, Dowex 50W-8X	100 g	W		
1		WLC3967T	500 g	Iron Filings	50 g	R	581	\$5.90
1		WL2214	pk/12	Iron Strips	150 cm ²	I	506	\$7.50
1		WLC3763R	100 g	Iron (III) Chloride Hexahydrate	60 g	W/F	582	\$7.80
1		WLC3772R	125 g	Iron (II) Nitrate Nonahydrate	130 g	W/I	582	\$8.70
1		WLC3787T	500 g	***Iron (II) Sulfate Heptahydrate	20 g	W/I	582	\$7.30
2		WLC3997E	500 ml	Kerosene	750 ml	P	582	\$7.00
				Lighter fluid (Optional)	100 ml	W		
1		WLC4069E	500 ml	Limewater Solution	60 ml	A	584	\$3.90
1	pkg	WLS65255-C		Litmus Paper, Blue	2 pkg	A/I	498	\$7.90
1	pkg	WLS65255-D		Litmus Paper, Red	2 pkg	A/I	498	\$7.90
				Liver, Raw	2 pc	H		
1		WLC4126Q	25 g	Magnesium Ribbon	600 cm	R/F/A/I	585	\$11.05
1		WLC4132T	500 g	Magnesium Nitrate Hexahydrate	125 g	R/I	585	\$16.00
1		WLC4150R	100 g	***Manganese Dioxide	10.5 g	A/H	586	\$9.10
1		WLC4171T	500 g	Marble Chips, Calcium Carbonate	100 g	A	586	\$4.00
				Marshmallows, Large (demo)	2	A		
1		WLC4207E	500 ml	Methanol	40 ml	P	587	\$5.60
1		WLA5770	1 lb	Milk, Nonfat, (Dry Milk Powder)	300 ml	F		\$3.95
				Milk, Whole	1 l	W		
1		WLC4264T	500 g	***Naphthalene Flakes	25 g	W	588	\$9.80

*** This chemical is available in the ChemCom Chemical package, WLC9002 shown at the end of this list.

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Quant. Req'd.	Catalog No	Pkg. Size	Description	Per Lab.	Units	Page	List Price
1	WLC4267R	100 g	***1-Naphthol	5 g	F	588	\$19.90
1	WLS85125-F		Nichrome or Platinum Wire	300 g	I	1279	\$21.20
1	WLC4306E	500 ml	Nitric Acid, Concentrated	140 ml	R/A	589	\$18.10
1	WLS37365		Nitrogen Gas, Cylinder (Demo)	1	A	516	\$128.00
1	WLC4309E	500 ml	***Octanol, Octyl Alcohol (Optional)	10 ml	P	589	\$24.70
1	WLA5555	1 qt	Oil, Automotive	750 ml	P		\$1.75
			Oil, Household Lubricating	750 ml	P		
1	WLC4255E	500 ml	Oil, Mineral, Light	750 ml	P	588	\$5.90
1	WLC3610E	500 ml	Oil, Vegetable	400 ml	W/A	575	\$7.80
			Paper Bags, Small, Brown	24	N		
1	WLC4342T	500 g	Paraffin Wax	50 g	P	590	\$5.30
1	WL50206		Paramecium (or Mixed) Culture	1	A	67	\$6.99
1	WLC4351Q	25 g	***Pepsin Enzyme Powder	2 g	H	590	\$14.60
			Perfume (Demo)	1 bottle	A		
			Permanent Wave Solution	180 ml			
			Permanent Wave Solution Neutralizer	90 ml	H		
1	WLC4384C	100 ml	Phenolphthalein (Demo)	5 ml	H	591	\$4.10
1	WLC4510R	100 g	***Potassium Dihydrogen Phosphate	1 g	F	594	\$11.10
1	WLC4471Q	25 g	***Potassium Iodate	1 g	F	593	\$6.90
1	WLC4477Q	25 g	***Potassium Iodide	1 g	F	593	\$8.20
1	WLC4512R	100 g	***Potassium Monohydrogen Phosphate	2 g	I	594	\$9.00
1	WLC4483R	10 g	***Potassium Nitrate	5 g	I	594	\$8.20
1	WLC4519R	125 g	***Potassium Thiocyanate	5 g	W/F	595	\$11.30
1	WLC4525C	10 ml	***Propanoic Acid (Optional)	10 g	P	595	\$6.60
1 pkg	WLS-73105		Rubber Bands, Orthodontist's Type	225	H	1109	\$2.70
1 pkg	WLS-73105		Rubber Bands, 10 cm Diameter	20	P	1109	\$2.70
1 pkg	WLS-73105		Rubber Bands, Small	324	A	1109	\$2.70
1	WLC4546R	100 g	***Salicylic Acid	20 g	P	596	\$6.60
1	WLC4642T	500 g	Salt (Table), Sodium Chloride	50 g	W	598	\$3.90
			Salt, Low Sodium	1 box	N		
2	WLC4549T	500 g	Sand	1 kg	W	596	\$4.10
1	WLC4564R	100 g	Silicon, Lump	50 g	R	596	\$8.00
1	WLC4579N	5 g	Silver Nitrate	4 g	W/R	596	\$8.50

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Quant. Req'd.	Catalog No	Pkg. Size	Description	Per Lab.	Units	Page	List Price
			Soap, Ivory (Liquid)	1 bottle	W		
1	WLC4633T	500 g	***Sodium Carbonate Monohydrate	15 g	W	598	\$8.70
1	WLC4609T	500 g	Sodium Hydrogen Carbonate (Baking Soda)	15 g	H	597	\$5.10
1	WLC4675T	500 g	Sodium Hydroxide	90 g	R/H/I	599	\$11.20
1	WLC4714T	500 g	***Sodium Nitrate	5 g	I	600	\$5.70
1	WLC4720R	100 g	***Sodium Oxalate	3 g	W	600	\$15.20
1	WLC4725T	500 g	***Sodium Phosphate Dodecahydrate	10 g	I	601	\$8.20
1	WLC4735R	10 g	***Sodium Sulfate Decahydrate	10 g	I	601	\$8.00
1	WLC4738T	500 g	***Sodium Sulfite (Demo)	2 g	F	601	\$9.20
1 pkg	WLS75943	pk/500	Splints, Wooden	60	A/H	1147	\$4.50
1	WLC4768R	125 g	***Starch, Water Soluble	3 g	F/H	602	\$10.00
1	WLC4781T	500 g	Steel Wool Pads	35 pads	R/A/I	603	\$6.40
1 pkg	WL5847K	pk/50	Straws, Drinking	24	H	1109	\$3.95
			Sulfur Hexafluoride Gas, Cylinder (Demo)	1	A		
1	WLC4819T	500 g	Sulfur, Lump Roll	50 g	R	604	\$7.00
1	WLC4813T	500 g	Sulfur Powder	40 g	A	604	\$7.70
2	WLC4825E	500 ml	Sulfuric Acid, Concentrated	600 ml	P/F/I	604	\$13.50
			Sun-Sensitive Paper	14 pc	N/H		
		bottle	Suntan Oil (SPF #2, #6, #10 and #15)	1 bottle/ea	H		
2	WLC4891R	100 g	Tin, Mossy or Foil	50 g	R	605	\$18.60
1	WLS73653-D		Tygon™ Tubing (Optional)	1 m	R	1274	\$11.35
1	WLC4725T	500 g	Trisodium Phosphate	50 g	H	601	\$8.20
1	WLC4921C	100 ml	Universal Indicator Solution	95 ml	A/H	606	\$7.80
1	WLC4923R	100 g	***Urea Crystals	25 g	W	606	\$4.40
1	WLC4960T	500 g	***Zinc Metal, Finely Granulated	10 g	R	607	\$27.30
1	WLC4975T	500 g	Zinc, Mossy (Demo)	300 g	R	607	\$10.20
1	WLC4974Q	40 g	Zinc Metal Pieces	150 cm ²	I	607	\$23.00
1	WLC4978T	500 g	Zinc Nitrate Hexahydrate	125 g	R/I	608	\$17.70

*** This chemical is available in the ChemCom Chemical package, WLC9002 shown at the end of this list.

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Non-Expendable Items for ChemCom

Quant.	Reqd.	Catalog No	Pkg. Size	Description	Per Lab.	Units	Page	List Price
2	ea	WLS31121-25B	pk/2	Alligator Clips with Leads	12	I	1178	\$8.40
1	ea			Black Box Set/ 30 Students	1	N		
12	ea	WLS30848		Batteries, 6V Lantern	12	I	1175	\$6.35
12	ea	WLS30853-20		Batteries, 9V	12	R	1175	\$2.10
72	ea	WL0615B		Beads, Metal, 7 mm	72	P		\$5.55
1	ea	CP33902-00		Calipers, Vernier (Optional)	1	N	917	\$25.80
12	ea	CP72707-11		Cloud Chamber Kit	12	N	867	\$10.70
12	Ea			Assorted Coins	12	N		
12	Ea	WL7990-01		Conductivity Apparatus (Opt.)	12	R	508	\$23.50
12	Ea	WL2202		Porous Cups, 75 ml	12	I	506	\$22.40
1	Pk	WLS79536-L	pk/96	Culture Tubes w/ Caps (20 x 150 mm)	72	P	1256	\$173.00
1	Set	WLA5690		Dominoes, Set	12	N		\$4.50
2	Pk	WLS26503-A		Forceps, pk/6	12	N	121	\$6.30
12	Pk	WLS69945-A	pk/12	Glass Plates	144	N	1214	\$5.45
2	Pk	WLS14570-C	pk/12	Graphite Rods	24	R/I	1152	\$35.45
1	Ea	WLS40515-B		Hammer	1	R	1269	\$28.70
12	Pk	WLS44309-80B		Lead Plates, pk/4	48	N	583	\$15.90
12	Ea	WLS44220-03		Light Source, Intense (Flashlight)	12	N	1199	\$15.90
12	Ea	WL2454C		Motors, Low Current (Opt.)	12	I	849	\$6.00
1400	Ea			Pennies (pre and post-1982)	1400	N		
12	ea	CP32852-00		Radiation Source Set	12	N	868	\$130.00
12	ea	CP33025-00		Ratemeter	12	N	867	\$211.00
3	pk	WLS65245	pk/5	Sand Paper, pk/5	12	R	1109	\$3.20
12	ea	WLS70025-B		Spot Plates, 12 cavity	12	I	1214	\$12.00
2	pk	WLS9486-07B	pk/6	Squeeze Bottles, 250ml	12	N	1138	\$16.45
1	ea	53548-010	pk/30	Syringe, Plastic, 50ml (Demo)	1	A		\$22.00
12	ea	WLA5615		Stop Watch, Digital	12	P	1264	\$6.50
12	ea	WLS82120		Tongs, Crucible, Stainless Steel	12	N	1267	\$5.65
12	ea			Watch Faces, Luminescent (Opt.)	12	N		

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