

Flinn Scientific

Laboratory Experiments for General, Organic and Biological Chemistry

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Master Chemicals List

Quantities are for 24 students working in groups.

Chemical (Synonym)	Catalog No.	Quantity	Experiment(s)
Acetaldehyde	A0155	100 mL	24
Acetic acid	A0177	100 mL	25
Acetic anhydride	A0156	100 mL	26
Acetone	A0010	4 L	7, 9, 21, 23, 24
Agarose powder, electrophoresis grade	A0132	10 g	36
Albumin, Egg (Ovalbumin)	A0258	25 g	28, 29, 30
Alumina	A0161	100 g	23
Aluminum foil	A0019	1 roll	5
Aluminum sheet, 1 mm thickness	A0017	12" x 12"	20
Aluminum shot or granules	A0262	100 g	7
Aluminum strip	A0178	pkg/10	7
Ammonium carbonate	A0226	100 g	5, 6
Ammonium hydroxide soln, 3 M	A0193	500 mL	24, 35
Ammonium molybdate	A0251	10 g	35
Ammonium nitrate	A0056	500 g	11, 21
Ammonium sulfate	A0262	500 g	28
Amylase	A0302	5 g	29
Arginine	A0308	5 g	28
Ascorbic acid (Vitamin C)	A0077	25 g	16, 17
Aspirin tablets (Acetylsalicylic acid)	A0201	1 bottle	26
Barfoed's solution	B0061	100 mL (2)	27
Barium chloride soln, 0.1 M	B0144	500 mL	5
Benedict's solution	B0015	500 mL	27, 29
Benzaldehyde	B0196	25 mL	24
Benzoic acid	B0197	100 g	25
Biuret test solution	B0051	500 mL	28, 29
Brass shot	B0234	100 g (2)	1
Bromocresol green soln, 0.04%	B0064	100 mL	15
Bromine water	AP4502	Kit	23, 30
Bromthymol blue soln, 0.04%	B0173	100 mL	19
Buffer envelope or soln, pH 2	B0112	pkg/5	29
Buffer envelope or soln, pH 5	B0115	pkg/5	34
Buffer envelope or soln, pH 7	B0117	pkg/5	29
Buffer envelope or soln, pH 9	B0119	pkg/5	29

Chemical (Synonym)	Catalog No.	Quantity	Experiment(s)
Buffer envelope or soln, pH 11	B0121	pkg/5	29
Calcium carbide	C0346	100 g	23
Calcium carbonate	C0347	100 g	6
Calcium chloride dihydrate	C0196	100 g	12, 31
Calcium chloride soln, 0.1 M	C0234	500 mL	5
Calcium turnings	C0345	10 g	5
Casein	C0043	100 g	28
Cerium(IV) ammonium nitrate	C0287	25 g	24
Charcoal	C0201	100 g	4
Cholesterol	C0179	25 g	30
Cinnamon oil (Cinnamaldehyde)	C0400	100 mL	24
Coconut oil	C0074	100 mL	30
Copper wire, 18 gauge	C0147	1 lb	9, 10, 23
Copper(II) chloride soln, 0.5 M	C0381	500 mL	6
Copper(II) sulfate soln, 0.1 M	C0382	500 mL	28
Corn oil	C0090	500 mL	30, 32
Cyclohexane	C0113	500 mL	23
Cyclohexanol	C0218	100 mL	24
Cyclohexene	C0114	100 mL	23
Cysteine	C0420	5 g	28
Dextrose (Glucose)	D0005	500 g	21, 27, 29
Dibenzoyl peroxide	B0158	25 g	23
2,6-Dichloroindophenol, sodium salt	D0009	1 g	17
Diphenylamine testing solution	D0060	100 mL	35
DNA 1kb Ladder	FB1901	80 µL (2)	36
EDTA soln, 0.1 M	E0059	500 mL	12, 35
Electrophoresis buffer, TAE, 50X concentrate	FB2035	500 mL	36
Ethanol (Ethyl alcohol), reagent	E0007	4 L	6, 24, 25, 26, 28, 33
Ethyl acetate	E0005	500 mL	26
Ethyl alcohol, 95%, denatured	E0009	500 mL	35
Ethylene glycol	E0020	500 mL	33
Eugenol (Clove oil)	C0066	25 mL	24
Food coloring dyes	V0003	1 set	2, 23
Fructose (Levulose)	L0020	100 g	27
Gelatin	G0037	150 g	28
Geraniol	TBD		24
Guaiacol soln, 0.2% in isopropyl alcohol	G0054	100 mL	34
Hexane	H0058	500 mL (2)	7, 26, 30
Hydrochloric acid, 0.1 M	H0014	500 mL	15, 19
Hydrochloric acid, 0.5 M	H0035	500 mL	5
Hydrochloric acid, 1 M	H0013	500 mL	4, 6
Hydrochloric acid, 3 M	H0034	500 mL	10, 16, 28

Chemical (Synonym)	Catalog No.	Quantity	Experiment(s)
Hydrogen peroxide, 3 %	H0009	473 mL	16, 34
Hydrogen tetrachloroaurate soln, 1 mM	AP7117	Kit	13
Hydroxynaphthol blue	H0055	5 g	12
Iodine	I0006	25 g	33
Iodine solution	I0038	100 mL	27, 29
Iron(II) ammonium sulfate soln, 0.1 M	F0030	500 mL	16
Iron(III) chloride, hexahydrate	F0006	100 g	16, 24, 26, 31
Iron(III) nitrate soln, 0.1 M	F0047	500 mL	15
Isoamyl alcohol (Isopentyl alcohol)	I0031	100 mL	25
Lactose	L0002	500 g	27
Lambda DNA, EcoRI Digest	FB1887	80 µL (2)	36
Lambda DNA, HindIII Digest	FB1888	80 µL (2)	36
Lambda DNA, Mixed Digest	FB2084	80 µL (2)	36
Lead sheet, 1/16" thickness	L0009	500 g	19
Lipase	L0056	25 g	29
Litmus powder	L0098	10 g	29
Magnesium chloride soln, 0.1 M	M0121	500 mL	5
Magnesium chloride hexahydrate	M0009	100 g	31
Magnesium ribbon	M0001	25 g	5, 6, 10
Methanol (Methyl alcohol)	M0054	500 mL	25, 32
Methylene blue staining soln, 10X concentrate	FB0326	500 mL	36
2-Methyl-2-propanol (tert-Butyl alcohol)	B0179	100 mL	24
α-Naphthol	N0067	10 g	28
Nitric acid soln, 3 M	N0049	500 mL	9, 28, 33
1-Octanol (Octyl alcohol)	Q0018	100 mL	25
Olive oil	Q0004	200 mL	30, 31
Oxalic acid	Q0005	100 g	17
Pepsin	P0006	25 g	29
Phenolphthalein soln, 0.5 %	P0115	100 mL	6, 18
Potassium chromate	P0207	25 g	24
Potassium ferricyanide soln, 0.1 M	P0165	500 mL	16
Potassium hydroxide	P0058	100 g	32
Potassium iodate	P0065	500 g	5, 14
Potassium iodide	P0066	25 g	33
Potassium permanganate	P0077	100 g	16, 23
Potassium thiocyanate soln, 0.1 M	P0178	500 mL	15, 16
Propanoic acid (Propionic acid)	P0187	100 mL	25
1-Propanol (Propyl alcohol)	P0228	100 mL	25
2-Propanol (Isopropyl alcohol)	I0019	500 mL	24, 28
Quartz, clear, rock crystal	AP4936	pkg/10	7
Salicylic acid	S0001	100 g	4, 24, 25, 26
Seliwanoff reagent	S0453	100 mL	27

Chemical (Synonym)	Catalog No.	Quantity	Experiment(s)
Schiff reagent	S0180	100 mL (2)	24
Silicon dioxide (sand)	S0003	500 g	7
Silver nitrate	S0025	25 g	9, 24
Silver nitrate soln, 0.1 M	S0305	100 mL	28, 35
Silver nitrate soln, 0.5 M	S0261	100 mL	21
Sodium bicarbonate	S0042	500 g	19
Sodium bicarbonate soln, saturated	S0267	500 mL	25
Sodium bromide soln, 0.2 M	S0215	100 g	16
Sodium chloride	S0061	500 g	7, 13, 35
Sodium citrate	S0068	500 g	13
Sodium dodecyl sulfate (Sodium lauryl sulfate)	D0024	100 g	35
Sodium dihydrogen phosphate (Sodium phosphate, monobasic)	S0097	100 g	15, 19, 34
Sodium hydrogen phosphate (Sodium phosphate, dibasic)	S0223	100 g	19, 34
Sodium hydroxide, reagent	S0074	100 g	18, 21, 24
Sodium hydroxide soln, 0.1 M	S0149	500 mL	15, 19
Sodium hydroxide soln, 0.2 M	S0244	500 mL	4
Sodium hydroxide soln, 1 M	S0148	500 mL	6
Sodium hydroxide soln, 3 M	S0447	500 mL	28
Sodium hydroxide soln, 6 M	S0242	500 mL	12, 31
Sodium hypochlorite soln, 5%	S0079	475 mL	16, 28
Sodium iodide	S0083	25 g	16
Sodium meta-bisulfite	S0317	100 g	14
Sodium nitroferricyanide (Sodium nitroprusside)	S0319	5 g	28
Sodium phosphate, tribasic (Trisodium phosphate)	S0101	500 g	6
Sodium sulfate soln, 1 M	S0352	500 mL	5
Sodium sulfite	S0111	500 g	16
Sodium thiosulfate	S0114	500 g	14, 30
Starch, soluble	S0122	100 g	14, 27, 29
Stearic acid	S0335	100 g	7
Strontium chloride soln, 0.1 M	S0255	500 mL	5
Styrene	S0338	100 g	23
Sucrose	S0134	500 g	2, 7, 27
Sudan III soln	S0159	100 mL	30
Sulfuric acid soln, 3 M	S0417	500 mL	35
Sulfuric acid, concentrated	S0228	100 mL	25, 26
Tin(II) chloride soln, acidified, 1 M	S0354	500 mL	35
Titanium oxide, nanocrystalline	AP6916*	Kit	33
Toluene	T0019	500 mL	23
Tyrosine	T0091	5 g	28
Universal indicator soln	U0001	100 mL	19
Zinc shot	Z0017	500 g	1
Zinc, mossy	Z0003	500 g	6