



Experiment Title	Chemical Name	Concentration
Melting Point	Cinnamic acid	solid
Melting Point	Urea	solid
Melting Point	Cholesterol	solid
Melting Point	Salicylic acid	solid
Melting Point	Urea/cinnamic acid mixture 50:50	solid
Melting Point	Urea/cinnamic acid mixture 75:25	solid
Melting Point	Urea/cinnamic acid mixture 25:75	solid
Recrystallization	Acetanilide	solid
Recrystallization	Acetanilide, impure	solid
Recrystallization	Charcoal powder	solid
Paper/Thin Layer Chromatography	Sodium chloride solution	0.1% w/v
Paper/Thin Layer Chromatography	Iodine chamber	n/a
Paper/Thin Layer Chromatography	Acetylsalicylic acid standard solution	10 mg/mL
Paper/Thin Layer Chromatography	Acetaminophen standard solution	5 mg/mL
Paper/Thin Layer Chromatography	Ibuprofen standard solution	10 mg/mL
Paper/Thin Layer Chromatography	Caffeine standard solution	10 mg/mL
Paper/Thin Layer Chromatography	Methylene chloride	liquid
Paper/Thin Layer Chromatography	Ethanol 95%	liquid
Paper/Thin Layer Chromatography	Ethyl acetate	liquid
Distillation/Gas Chromatography	Acetone	liquid
Distillation/Gas Chromatography	1-propanol	liquid
Isolation of Caffeine	Methylene chloride	liquid
Isolation of Caffeine	Acetone	liquid
Isolation of Caffeine	Petroleum ether	liquid

Experiment Title	Chemical Name	Concentration
Isolation of Caffeine	Sodium carbonate anhydrous	solid
Isolation of Caffeine	Sodium sulfate anhydrous	solid
Isolation of Caffeine	Caffeine	solid
Isolation of Caffeine	Salicylic acid	solid
IR Spectroscopy	Heptane	liquid
Fat From Nutmeg	Ethyl ether	liquid
Fat From Nutmeg	Acetone	liquid
Fat From Nutmeg	Sodium sulfate anhydrous	solid
Fat From Nutmeg	Sand	solid
Dehydration of Alcohol	3-methyl-3-pentanol	liquid
Dehydration of Alcohol	1-methylcyclohexanol	liquid
Dehydration of Alcohol	Sulfuric acid conc.	18 M
Dehydration of Alcohol	Sodium chloride solution	saturated
Dehydration of Alcohol	Sodium carbonate	10% w/v
Dehydration of Alcohol	Sodium sulfate anhydrous	solid
Dehydration of Alcohol	Heptane	liquid
Dehydration of Alcohol	Bromine in dichloromethane	5% w/v
Dehydration of Alcohol	cyclohexene	liquid
Dehydration of Alcohol	Cyclohexane	liquid
Dehydration of Alcohol	Cyclohexanol	liquid
Dehydration of Alcohol	Potassium permanganate	0.5% w/v
Dehydration of Alcohol	Acetone	liquid
Dehydration of Alcohol	1-methylcyclohexanol	liquid
Acid Base Extraction	Ethyl ether	liquid
Acid Base Extraction	Benzoic acid/ethyl-4-aminobenzoate 1:1 mixture	solid
Acid Base Extraction	Sodium hydroxide	5% w/v
Acid Base Extraction	Sodium hydroxide	3 N
Acid Base Extraction	Hydrochloric acid	5% w/v
Acid Base Extraction	Hydrochloric acid	6 N
Acid Base Extraction	Sodium hydroxide	5% w/v
Acid Base Extraction	Sodium hydroxide	3 N
Acid Base Extraction	Hydrochloric acid	5% w/v

Experiment Title	Chemical Name	Concentration
Acid Base Extraction	Hydrochloric acid	6 N
Synthesis of Aspirin	Salicylic acid	solid
Synthesis of Aspirin	Acetic anhydride	liquid
Synthesis of Aspirin	Sulfuric acid conc.	liquid
Synthesis of Aspirin	Ethanol 95%	liquid
Synthesis of Aspirin	Ferric chloride	0.5% w/v
Synthesis of Aspirin	Acetylsalicylic acid	solid
Synthesis of Soap	Sodium hydroxide	solid
Synthesis of Soap	Sodium chloride	solid
Synthesis of Soap	Calcium chloride	0.5% w/v
Synthesis of Soap	Magnesium chloride	0.5% w/v
Synthesis of Soap	Ferric chloride	0.5% w/v
Synthesis of Soap	Hydrochloric acid	3 M
Synthesis of Soap	Alconox detergent powder	solid
Synthesis of Soap	Mineral oil	liquid
Esterification	Trans-cinnamic acid	solid
Esterification	Ethanol 95%	liquid
Esterification	Sulfuric acid conc.	18 M
Esterification	Methanol	liquid
Esterification	1-octanol	liquid
Esterification	Acetic acid glacial	liquid
Esterification	Propanoic acid	liquid
Esterification	Butanoic acid	liquid
Esterification	Formic acid	liquid
Esterification	Benzoic acid	solid
Esterification	Isopropyl alcohol	liquid
Esterification	Benzyl alcohol	liquid
Esterification	Isoamyl alcohol	liquid
Esterification	Isobutyl alcohol	liquid
Esterification	1-pentanol	liquid
Esterification	1-butanol	liquid
Esterification	1-propanol	liquid
Esterification	Salicylic acid	solid

Experiment Title	Chemical Name	Concentration
Esterification	Sodium carbonate	10% w/v
Production of Slime	Sodium borate (borax)	4% w/v
Production of Slime	Polyvinyl alcohol solution	4% w/v