

Possible Hazards for CHEM-202 Organic Chemistry II

This list of substances represents the possible hazards currently identified for this course; however, substitutions or additions are possible. Do not assume a substance is safe if it is not listed. You will be notified of changes as soon as they are available. If you are aware of any known allergies or sensitivities to chemicals, please let your professor know prior to the first lab class.

Chemicals:

Acetic Anhydride	Monk Wipes
Acetone	Naphthalene Tetracarboxylic Dianhydride
Acrylic Acid	1,3,5,8-
Aminobenzoic Acid	Palladium (II) Chloride
Bromobutane	Palladium on Carbon
Bromoethane	Phthalic Anhydride
Bromopropane	Phenylboronic Acid
Calcium Chloride Anhydrous	Phosphoric Acid (85%)
Calcium Hydroxide	Potassium Carbonate
Diethylamine	Salicylic Acid
Diethyl Ether (ethyl ether/ether)	Sodium Borohydride
Dimethoxybenzaldehyde, 3,4-	Sodium Carbonate
Dimethyl-Formamide-N, N	Sodium Hydroxide (5%, 8%)
Ethyl Alcohol	Thiamine Hydrochloride
Furfural	Thionyl Chloride
Hydrochloric Acid (1M, 2M, 5%, 10%, 6M)	Toluene
Indanone,1-	Toluic Acid
Iodoacetophenone,4-	Vanillin
Iodophenol,4-	
Iron Chloride	<u>Household Items:</u>
Magnesium Sulfate Anhydrous	Dish Soap (Dawn)
Magnesium Turnings	Vegetable Oil
Methyl Alcohol	Molasses
Methyl Ethyl Ketone	Yeast

Complete List of Chemicals

These chemicals are stored in an adjacent area. Any of these chemicals could be used for another course in the same lab room but at a different time. Exposure is possible but not probable.

Acetanilide	Calcium Hydroxide (Lime)
Acetic Acid, Glacial	Calcium Nitrate-4-hydrate
Acetic Anhydride	Calcium Oxide
Acetone	Calcium Sulfate-2-hydrate
Albumin, Egg	Camphor-dl
Alka-Seltzer	Carbon (Charcoal)
All-Purpose Cleaner	Casein
Aluminum	Catechol (Pyrocatechol)
Aminobenzoic Acid, 3-	Chloride Tablet
Ammonia (household)	Citric Acid-Anhydrous
Ammonia Tablets #1, #2	Club Soda
Ammonium Acetate	Cobalt Chloride-6 hydrate
Ammonium Chloride	Cobalt Nitrate-6-hydrate
Ammonium Hydroxide	Coffee Concentrate
Ammonium Nitrate	Copper Tablet
Ammonium Persulfate	Copper solid
Ammonium Phosphate	Copper(II) Chloride-2-hydrate
Amyl Alcohol	Copper(II) Nitrate-3-hydrate
Argon Spectrum Tubes	Copper(II) Sulfate-Anhydrous
Ascorbic Acid (Vitamin C)	Copper(II) Sulfate-5-hydrate
Aspirin (Acetylsalicylic Acid)	Cyclohexane
Baking Soda	Cyclohexanol
Barium Chloride-2-hydrate	Cyclohexanone
Barium Hydroxide-8-hydrate	Cyclohexene
Barium Nitrate	Dichlorobenzene-p (PDB)
Benzil	Diethyl Ether, anhydrous (Ether)
Benzoic Acid	Diethylamine
Benzophenone	Dimethoxybenzaldehyde, 3,4-
Bleach (household)	Dimethylformamide, N,N-
Boiling Chips, pumice	Dishwashing Liquid (Dawn)
Boric Acid	Drierite (desiccant)
Brass	EDTA
Bromobutane	Ethyl Acetate
Bromoethane (Ethyl Bromide)	Ethyl Alcohol
Bromopropane	Fluorene
Bromothymol Blue	Food Coloring Dyes
Buffer solutions, pH4,pH7,pH10	Fructose
Caffeine	Furfural
Calcium Acetate	Glass Beads
Calcium Carbonate	Glass Cleaner (Windo-Clean)
Calcium Chloride-Anhydrous	Glycerin
Calcium Chloride-2-hydrate	

Gold
Hardness Tablet
Helium Spectrum Tubes
Hexanes
Hydrochloric Acid
Hydrogen Spectrum Tubes
Hydrogen Peroxide, 3% & 30%
Indanone, 1
Iodine solid
Iodine Potassium Iodide Solution
Iodine Spectrum Tubes
Iodoacetophenone, 4'
Iodophenol, 4
Iron (Filings)
Iron (III) Chloride - 6-hydrate
Iron (III) Nitrate - 9-hydrate
Iron (II) Sulfate - 7-hydrate
Iron Tablet
Iso-butanol
Isopropyl Alcohol
Krypton Spectrum Tubes
Lead Chloride
Lemon Juice
Lithium Chloride
Lycopodium
Magnesium solid
Magnesium Chloride - 6-hydrate
Magnesium Nitrate-6-hydrate
Manganese Sulfate monohydrate
Magnesium Sulfate - anhydrous
Malic Acid
Malonic Acid
Manganese Dioxide
Manganese (II) Sulfate
Methyl Alcohol (Methanol)
Methyl Ethyl Ketone
Methyl Orange Indicator
Milk of Magnesia Solution
Molasses
Monk Wipes
Naphthalene
Neon Spectrum Tubes
Nickel (II) Chloride - 6-hydrate
Nitrate Tablets, 1&2
Nitric Acid
Oleic Acid
Oxalic Acid
Palladium (II) Chloride
Palladium, 10% on carbon powder
pH tablet
Phenolphthalein
Phenylboronic Acid
Phosphate Tablet
Phosphoric Acid
Phthalic anhydride
Pentanal (Valeraldehyde)
Pentanone, 3-
Potassium Carbonate - anhydrous
Potassium Chloride
Potassium Citrate - Monohydrate
Potassium Hydrogen Phthalate
Potassium Iodide
Potassium Nitrate
Potassium Permanganate
Potassium Phosphate-Monobasic
Pyrocatechol (Catechol)
Salicylamide
Salicylic Acid
Silver solid
Silver Nitrate
Soda
Sodium Acetate - Anhydrous
Sodium Acetate - 3-hydrate
Sodium Bicarbonate
Sodium Bisulfate
Sodium Borate
Sodium Borohydride
Sodium Bromide
Sodium Carbonate-Anhydrous
Sodium Carbonate-Monohydrate
Sodium Chloride
Sodium Hydroxide
Sodium Iodide
Sodium Nitrate
Sodium Nitrite
Sodium Phosphate Monohydrate
Sodium Phosphate 12-hydrate
Sodium Sulfate Anhydrous
Sodium Sulfite Anhydrous
Sodium Thiocyanate
Sodium Thiosulfate Anhydrous
Starch, Potato
Strontium Chloride - 6-hydrate

Sucrose
Sulfuric Acid
Tannic Acid
Tin solid
Tartaric Acid
Thiamine Hydrochloride
Thionyl Chloride
Toluene
Toluic Acid-m
Urea
Vanillin
Vegetable Oil
Vinegar (household)
Xenon Spectrum Tubes
Zinc solid
Zinc Chloride
Zinc Nitrate - 6-hydrate