

## **Possible Hazards for CHEM-105 General Chemistry I**

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 Acid (0.01M, 0.1M)  
Acetone  
Aluminum  
Ammonium Hydroxide (0.01M, 0.1M, 3M, 15M)  
Ammonium Chloride  
Barium Chloride  
Buffers: pH 4, 7, 10  
Calcium Carbonate  
Calcium Chloride  
Citric Acid  
Copper  
Copper (II) Nitrate  
Copper (II) Sulfate Pentahydrate  
Ethyl Alcohol  
Gas Spectral Tubes: Hydrogen, Helium, Neon, Argon, Krypton, Xenon  
Hexane  
Hydrochloric Acid (0.01M, 0.1 M, 6M)  
Hydrogen Peroxide (3%)  
Iron  
Iron (II) Sulfate  
Isopropyl Alcohol  
Lycopodium Powder  
Magnesium  
Magnesium Nitrate  
Methyl Alcohol  
Monk Wipes  
Nitric Acid (16M)  
Oleic Acid  
Phenolphthalein Indicator  
Silver  
Silver Nitrate  
Sodium Acetate  
Sodium Bromide  
Sodium Hydroxide (0.01M, 0.1M, 0.5M, 1M)

Sodium Hydrogen Phthalate  
Sodium Nitrite  
Sodium Sulfite  
Sodium Sulfate  
Sucrose  
Sulfuric Acid (0.1M, 1M, 3M, 6M)  
Toluene  
Urea  
Zinc  
Zinc Nitrate

### **Household Items:**

Dish Soap (Dawn)  
Household Ammonia solution  
Household Vinegar

## 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