

CHM103 and 105 Chemical List by Experiment

| Experiment Title | Chemical Name | Concentration |
|--------------------------|---------------------------|---------------|
| Acid Base Investigation | Acetic acid | glacial |
| Acid Base Investigation | Ammonium hydroxide | 0.1 M |
| Acid Base Investigation | Ascorbic acid | 0.1 M |
| Acid Base Investigation | Hydrochloric acid | 0.1 M |
| Acid Base Investigation | Hydrochloric acid | 3 M |
| Acid Base Investigation | Lactic acid | 0.1 M |
| Acid Base Investigation | Magnesium metal pieces | solid |
| Acid Base Investigation | Phenolphthalein indicator | 0.1% w/v |
| Acid Base Investigation | Sodium bicarbonate | solid |
| Acid Base Investigation | Sodium hydroxide | 0.1 M |
| Acid Base Investigation | Zinc metal pieces | solid |
| Biodiesel | Methanol | liquid |
| Biodiesel | Sodium chloride | saturated |
| Biodiesel | Sodium hydroxide | solid |
| Biodiesel | Sodium sulfate anhydrous | solid |
| Bioplastics | Glycerol | liquid |
| Chem Reactions | Barium chloride | 0.1 M |
| Chem Reactions | Calcium chloride | 0.1 M |
| Chem Reactions | Copper (II) nitrate | 0.1 M |
| Chem Reactions | Hydrochloric acid | 1 M |
| Chem Reactions | Magnesium nitrate | 0.3 M |
| Chem Reactions | Potassium bicarbonate | 0.3 M |
| Chem Reactions | Potassium hydroxide | 1 M |
| Chem Reactions | Potassium iodate | 0.1 M |
| Chem Reactions | Silver nitrate | 0.1 M |
| Chem Reactions | Sodium carbonate | 0.5 M |
| Chem Reactions | Sodium chloride | 0.1 M |
| Chromatography | Sodium chloride | 0.1% w/v |
| Cleaning up Water | Charcoal powder | solid |
| Cleaning up Water | Sodium bicarbonate | solid |
| Cleaning up Water | Sodium chloride | solid |
| Copper to Silver to Gold | Sodium chloride | solid |
| Copper to Silver to Gold | Sodium hydroxide | 3 M |
| Copper to Silver to Gold | Zinc chloride | 1 M |
| Copper to Silver to Gold | Zinc granular 20-30 mesh | solid |

| Experiment Title | Chemical Name | Concentration |
|---|---|------------------|
| Density | Ethanol 95% | liquid |
| Density | Glycerol | liquid |
| Drinking Water Metals | DW metal/mineral std | n/a |
| Drinking Water Metals | Nitric acid | 1 + 1 |
| Drinking Water Metals | Nitric acid | 1% w/v |
| Investigation of Matter | Copper (II) chloride | solid |
| Investigation of Matter | Glycerol | liquid |
| Investigation of Matter | methanol | liquid |
| Leaf Lab (CO2 in leaves) | Hydrochloric acid | 1 M |
| Leaf Lab (CO2 in leaves) | Nitrate (sodium) solution | 1% (NO3) w/v |
| Leaf Lab (CO2 in leaves) | Phenolphthalein indicator | 0.1% w/v |
| Leaf Lab (CO2 in leaves) | Sodium hydroxide | 1 M |
| Leaf Lab (CO2 in leaves) | Sodium hydroxide/sodium carbonate mixture | 80%(1 M NaOH) 20 |
| Leaf Lab (CO2 in leaves) | Sodium hydroxide/sodium carbonate mixture | 60%(1 M NaOH) 40 |
| Leaf Lab (CO2 in leaves) | Strontium nitrate | 1 M |
| Macronutrient (Fats, Carbs, Protein) analysis | Benedict's reagent qualitative | n/a |
| Macronutrient (Fats, Carbs, Protein) analysis | Biuret solution | n/a |
| Macronutrient (Fats, Carbs, Protein) analysis | Heptane | liquid |
| Macronutrient (Fats, Carbs, Protein) analysis | Potassium iodide/iodine reagent | n/a |
| Macronutrient (Fats, Carbs, Protein) analysis | Sudan III stain | 0.5% |
| Observations | Calcium chloride anhydrous | solid |
| Observations | Phenol red solution | 0.04% w/v |
| Observations | Sodium bicarbonate | solid |
| Sodium nmr | Sodium chloride | solid |
| Solubility Testing | 1-hexene | liquid |
| Solubility Testing | 1-propanol | liquid |
| Solubility Testing | Acetone | liquid |
| Solubility Testing | Caffeine | solid |
| Solubility Testing | Cyclohexane | liquid |
| Solubility Testing | Ethanol 95% | liquid |
| Solubility Testing | Glucose | solid |
| Solubility Testing | Glycerol | liquid |
| Solubility Testing | Heptane | liquid |
| Solubility Testing | Methanol | liquid |
| Solubility Testing | Pentane | liquid |
| Solubility Testing | Propionamide | solid |
| Solubility Testing | Urea | solid |

| Experiment Title | Chemical Name | Concentration |
|----------------------------------|----------------------|----------------------|
| Synthesis of an Organic Compound | Acetic anhydride | liquid |
| Synthesis of an Organic Compound | Acetone-d6 | liquid |
| Synthesis of an Organic Compound | Salicylic acid | solid |
| Synthesis of an Organic Compound | Sulfuric acid | conc., 18 M |