

CHM100 Chemicals by Experiment

Experiment Title	Chemical Name	Concentration
Acids and Bases	Buffer Unknown A	liquid
Acids and Bases	Buffer Unknown B	liquid
Acids and Bases	Buffer Unknown C	liquid
Acids and Bases	Buffer Unknown D	liquid
Acids and Bases	Color reference buffer tubes	n/a
Acids and Bases	Hydrochloric acid	0.1 M
Acids and Bases	Phenolphthalein indicator	0.1% w/v
Acids and Bases	Sodium hydroxide	0.1 M
Acids and Bases	Universal indicator (Bogens)	n/a
Atomic Structure, Periodic Table & Flame Test	Aluminum	solid
Atomic Structure, Periodic Table & Flame Test	Barium Chloride	1 M
Atomic Structure, Periodic Table & Flame Test	Bromine	liquid
Atomic Structure, Periodic Table & Flame Test	Cadmium	solid
Atomic Structure, Periodic Table & Flame Test	Calcium	solid
Atomic Structure, Periodic Table & Flame Test	Calcium Nitrate	1 M
Atomic Structure, Periodic Table & Flame Test	Carbon	solid
Atomic Structure, Periodic Table & Flame Test	Chlorine	gas
Atomic Structure, Periodic Table & Flame Test	Copper	solid
Atomic Structure, Periodic Table & Flame Test	Copper Nitrate	1 M
Atomic Structure, Periodic Table & Flame Test	Hydrogen	gas
Atomic Structure, Periodic Table & Flame Test	Iodine	solid
Atomic Structure, Periodic Table & Flame Test	Iron	solid
Atomic Structure, Periodic Table & Flame Test	Lead	solid
Atomic Structure, Periodic Table & Flame Test	Lithium Nitrate	1 M
Atomic Structure, Periodic Table & Flame Test	Magnesium	solid
Atomic Structure, Periodic Table & Flame Test	Mercury	liquid
Atomic Structure, Periodic Table & Flame Test	Nickel	solid
Atomic Structure, Periodic Table & Flame Test	Nitrogen	gas
Atomic Structure, Periodic Table & Flame Test	Oxygen	gas
Atomic Structure, Periodic Table & Flame Test	Silicon	solid
Atomic Structure, Periodic Table & Flame Test	Sodium Nitrate	1 M
Atomic Structure, Periodic Table & Flame Test	Strontium Nitrate	1 M
Atomic Structure, Periodic Table & Flame Test	Sulfur	solid
Atomic Structure, Periodic Table & Flame Test	Zinc	solid

Experiment Title	Chemical Name	Concentration
Chemical Reactions and Equations	Cobalt nitrate	0.1 M
Chemical Reactions and Equations	Hydrochloric acid	6 M
Chemical Reactions and Equations	Hydrochloric acid	1 M
Chemical Reactions and Equations	Magnesium ribbon 2 cm pieces	solid
Chemical Reactions and Equations	Magnesium ribbon whole	solid
Chemical Reactions and Equations	Met-L-X fire extinguisher	solid
Chemical Reactions and Equations	Sodium carbonate	solid
Chemical Reactions and Equations	Sodium chloride	0.1 M
Chemical Reactions and Equations	Sodium hydroxide	0.1 M
Chemical Reactions and Equations	Sodium phosphate tribasic	0.1 M
Chemical Reactions and Equations	Zinc metal pieces	solid
Energy and Matter	Ammonium Nitrate	solid
Energy and Matter	Calcium Chloride	solid
Moles & Chemical Formulas	Copper sulfate 5 hydrate	solid
Moles & Chemical Formulas	Magnesium ribbon whole	solid
Moles & Chemical Formulas	Magnesium sulfate 7 hydrate	solid
Moles & Chemical Formulas	Met-L-X fire extinguisher	solid
Observations, Density and Conversions	Barium Nitrate	0.1 M
Observations, Density and Conversions	Cobalt Nitrate	0.1 M
Observations, Density and Conversions	Copper Nitrate	0.1 M
Observations, Density and Conversions	Hydrochloric Acid	0.1 M
Observations, Density and Conversions	Hydrochloric acid	6 M
Observations, Density and Conversions	Iron (III) Nitrate	0.1 M
Observations, Density and Conversions	Potassium Nitrate	0.1 M
Observations, Density and Conversions	Sodium Carbonate	0.1 M
Observations, Density and Conversions	Sodium Chloride	5% w/w
Observations, Density and Conversions	Sodium Chloride	0.1 M
Observations, Density and Conversions	Sodium Hydroxide	0.1 M
Observations, Density and Conversions	Sodium Iodide	0.1 M
Observations, Density and Conversions	Sodium Phosphate Tribasic	0.1 M
Organic Compounds	acetone	liquid
Organic Compounds	acetone	liquid
Organic Compounds	benzyl alcohol	liquid
Organic Compounds	Bromine in dichloromethane	5% w/v
Organic Compounds	Cyclohexane	liquid

Experiment Title	Chemical Name	Concentration
Organic Compounds	Cyclohexene	liquid
Organic Compounds	Ethanol 95%	liquid
Organic Compounds	Heptane	liquid
Organic Compounds	Hydrochloric acid	6 M
Organic Compounds	Polyurethane Foam A	liquid
Organic Compounds	Polyurethane Foam B	liquid
Organic Compounds	Propylene glycol	liquid
Organic Compounds	salicylic acid	solid
Organic Compounds	salicylic acid impure	solid
Organic Compounds	Sodium hydroxide	6 M
Solutions and Solubility	Copper sulfate anhydrous	solid
Solutions and Solubility	cyclohexane	liquid
Solutions and Solubility	ethanol	liquid
Solutions and Solubility	Iodine	solid
Solutions and Solubility	Potassium nitrate	solid
Solutions and Solubility	Sodium chloride	saturated
Solutions and Solubility	sucrose	solid
Solutions Suspensions and Colloids	Benedict's Reagent qualitative	n/a
Solutions Suspensions and Colloids	Charcoal powder	solid
Solutions Suspensions and Colloids	Glucose solution	10% w/v
Solutions Suspensions and Colloids	Potassium iodide/iodine reagent	n/a
Solutions Suspensions and Colloids	Silver nitrate	0.1 M
Solutions Suspensions and Colloids	Starch solution	1% w/v
Testing Cations and Anions	Acetic Acid	glacial
Testing Cations and Anions	Ammonium Chloride	0.1 M
Testing Cations and Anions	Ammonium Molybdate	0.5 M
Testing Cations and Anions	Ammonium Oxalate	0.1 M
Testing Cations and Anions	Barium Chloride	0.1 M
Testing Cations and Anions	Calcium Chloride	1 M
Testing Cations and Anions	Calcium Hydroxide	saturated
Testing Cations and Anions	Carbon dioxide solid (dry ice)	solid
Testing Cations and Anions	Ethanol in Water	10% v/v
Testing Cations and Anions	Ferric Chloride	0.1 M
Testing Cations and Anions	Hydrochloric acid	6 M
Testing Cations and Anions	Hydrochloric Acid	0.1 M

Experiment Title	Chemical Name	Concentration
Testing Cations and Anions	Hydrochloric Acid	3 M
Testing Cations and Anions	Lithium Chloride	1 M
Testing Cations and Anions	Nitric Acid	6 M
Testing Cations and Anions	Potassium Thiocyanate	0.1 M
Testing Cations and Anions	Silver Nitrate	0.1 M
Testing Cations and Anions	Sodium Bicarbonate	0.1 M
Testing Cations and Anions	Sodium Carbonate	0.1 M
Testing Cations and Anions	Sodium Chloride	0.9 % w/v
Testing Cations and Anions	Sodium Chloride	1 M
Testing Cations and Anions	Sodium Hydroxide	0.1 M
Testing Cations and Anions	Sodium Hydroxide	6 M
Testing Cations and Anions	Sodium Phosphate Tribasic	0.1 M
Testing Cations and Anions	Sodium Sulfate	0.1 M
Testing Cations and Anions	Sucrose	1% w/v