

Experiment 5C: Types of Chemical Reactions

Objectives:

- To observe different chemical reactions
- To interpret and explain observations using balanced chemical equations
- To identify reactions from an input of their main types

Materials: Please refer to Experiment 5C and page 7 of the General Chemistry Laboratory Experiment 5C Manual

Procedures:

1. Check any safety equipment such as goggles and aprons.
2. Make observations, before heating, and after each reaction. Observe and describe in Table 1.

Reaction 1:

1. Ignite burner flame for heat.
2. Using crucible tongs, bring 10 pre-weighed pellets copper up to the hottest part of the burner as fast as you can.

Reaction 2:

1. Clean silver nail with a piece of steel wool so that the surface of the nail is shiny.
2. Place the nail in a test tube and add copper (II) sulfate solution until the nail is fully covered.
3. After approximately 10 minutes, observe the nail and describe any changes in reaction time and the solution colour (see a description in table 1).

Reaction 3:

1. Put some solid copper (I) sulfate pentahydrate in a test tube and heat it evenly until it is dry.
2. Using crucible tongs, hold the test solution contents in a test tube using crucible tongs and observe. Heat the test tube in a crucible tongs and crucible tongs until it is dry.
3. Continue heating until no further change is observed. Refer to Reaction 1.

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