

Chemistry: Concepts and Applications Chemlab

Pre-AP Chemistry
Instructor: Mr. Malachy

Name _____ Period _____ Due Date _____

Laboratory Activity: Synthesis and Decomposition

Background

In one type of chemical reaction, atoms are often combined to form compounds. The chemical properties of the compound are different from those of the atoms of which they are composed. A synthesis reaction is noted by the general equation $A + B \rightarrow AB$. The opposite of a synthesis reaction is a decomposition, where bonds are broken and a complex substance is converted to simpler parts. A decomposition reaction is noted by the general equation $AB \rightarrow A + B$.

The combination of zinc and iodine forms the compound zinc iodide. Water is used in this reaction as a catalyst to permit the reaction to begin at room temperature. Since the synthesis is accomplished by electron transfer, when the zinc iodide undergoes electrolysis, it can be returned to the elements that compose the compound.

Materials

funnel	wires w/ alligator clips	power source
filter paper	hot plate	zinc (s)
graduated cylinder	tongs	iodine (s)
copper conductor wires	beaker	deionized water
watch glass		

Methods

1. Examine the zinc and iodine and record their properties.
2. Measure 0.34 g of zinc powder and place on a watch glass.
3. Measure 0.76 g of iodine and place on the watch glass next to the zinc.
4. Mix the two solids and look for a reaction.
5. Carefully (and slowly) add 5 ml of deionized water to the mixture by dripping through the solids. Note the reactions.
6. Stir until the reaction is no longer evident.
7. Filter the solution, collecting the filtrate in a clean small beaker, and rinsing the watch glass and filter paper with a small amount of deionized water, as needed.
8. Wash and dry the watch glass and return the filtrate to the watch glass.
9. Hold the watch glass over a hot plate and allow crystals to form. Observe and note crystal properties.
10. Use a small amount of deionized water to redissolve the crystals.
11. Set up electrolysis of the solution on the watch glass and record the changes that occur.
12. Wash the watch glass in the sink, discard conductor wires.

Observations (80 pts)

1. zinc properties-
2. iodine properties-

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