# **Describing Chemical Reactions**

#### Introduction and Purpose

In this experiment you will observe examples of the five basic types of chemical reactions. You will learn to write balanced equations, including the role of energy, to effectively communicate the chemistry of the reactions.

#### Procedure

Carry out the reactions using the approximate quantities of reagents suggested. Unless otherwise stated, use test tubes. When heating reagents in test tubes, slant the test tube so that the opening is pointed away from people. Heat the test tube at the surface of the material and work down towards the bottom of the tube. Discard solutions down the drain, wash and rinse your glassware. Discard solid waste in the waste cans on the lab tables.

In the data section you will balance the equation, write the word equation and record your observations.

#### A. Combination reactions:

- Grasp a strip of magnesium ribbon in crucible tongs and ignite it in the burner flame. Hold it over a watch glass. Do not look directly at the flame! Add a few drops of distilled H<sub>2</sub>O to the ash. Stir with a stirring rod and place a drop of the solution on red litmus paper. Red litmus turning blue is evidence for the presence of a base.
- Heat a piece of copper metal strongly in the Bunsen burner flame for about 30 s. Remove the copper from the flame and note the change in appearance. Discard the product in the solid waste can.

## **B. Decomposition reactions:**

 Place about 1 scoopful of solid calcium carbonate CaCO<sub>3</sub> into a dry test tube and heat strongly for 2 minutes. Toward the end of the heating, light a wood splint and insert the flaming splint into the mouth of the test tube. Note what happens to the splint.

#### C. Single replacement reactions:

- Place a strip of copper in a test tube with enough 0.1M AgNO<sub>3</sub> to cover it. Set this
  test tube aside, then observe the surface of the metal after 5-10 minutes.
- 2. Place a couple of pieces of mossy zinc metal in a test tube approximately 1/4 full of 3M HCl. Place a stopper loosely in the tube. After a few minutes, light a wood splint and insert the flaming splint into the mouth of the test tube. Hold the test tube in your hand to feel if the temperature has changed.

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**Robert Spilman Turner** 

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Encyclopedia of Glass Science, Technology, History, and Culture Pascal Richet, 2021-02-05 A comprehensive and up to date encyclopedia to the fabrication nature properties uses and history of glass The Encyclopedia of Glass Science Technology History and Culture has been designed to satisfy the needs and curiosity of a broad audience interested in the most varied aspects of material that is as old as the universe As described in over 100 chapters and illustrated with 1100 figures the practical importance of glass has increased over the ages since it was first man made four millennia ago The old age glass vessels and window and stained glass now coexist with new high tech products that include for example optical fibers thin films metallic bioactive and hybrid organic inorganic glasses amorphous ices or all solid state batteries In the form of scholarly introductions the Encyclopedia chapters have been written by 151 noted experts working in 23 countries They present at a consistent level and in a self consistent manner these industrial technological scientific historical and cultural aspects Addressing the most recent fundamental advances in glass science and technology as well as rapidly developing topics such as extra terrestrial or biogenic glasses this important guide Begins with industrial glassmaking Turns to glass structure and to physical transport and chemical properties Deals with interactions with light inorganic glass families and organically related glasses Considers a variety of environmental and energy issues And concludes with a long section on the history of glass as a material from Prehistory to modern glass science The Encyclopedia of Glass Science Technology History and Culture has been written not only for glass scientists and engineers in academia and industry but also for material scientists as well as for art and industry historians It represents a must have comprehensive guide to the myriad aspects this truly outstanding state of matter Applied Mechanics Reviews ,1991 **Pharmaceutical Record and Weekly Market** Review P. W. Bedford, 1886 Chemical Thermodynamics of Compounds and Complexes of U, Np, Pu, Am, Tc, Se, Ni and Zr With Selected Organic Ligands, 2005-11-04 This volume is part of the series on Chemical Thermodynamics published under the aegis of the OECD Nuclear Energy Agency It contains a critical review of the literature on thermodynamic data for compounds of complexes of oxalate citrate EDTA and iso saccharinate with uranium neptunium plutonium americium technetium selenium nickel and zirconium A review team composed of five internationally recognized experts has critically reviewed all the scientific literature containing chemical thermodynamic information for the above mentioned systems The results of this critical review carried out following the Guidelines of the OECD NEA Thermochemical Database Project have been documented in the present volume which contains tables of selected values for formation and reaction thermodynamical properties and an extensive bibliography Contributed by Wolfgang Hummel Chairman Paul Scherrer Institute Switzerland Giorgio Anderegg Swiss Federal Institute of Technology ETH Switzerland Linfeng Rao Lawrence Berkeley National Laboratory U S A Ignasi Puigdom nech Swedish Nuclear Fuel and Waste Management Co SKB Sweden and Osamu Tochiyama Tohoku University Japan Critical review of all literature on chemical thermodynamics for compounds and complexes of oxalate citrate EDTA and iso saccharinate with U Np Pu Am Tc and Se Ni and Zr Tables of recommended Selected Values for thermochemical properties Documented review procedure Exhaustive bibliography Intended to meet requirements of radioactive waste management community Valuable reference source for the physical analytical and environmental chemist Chemical Engineering Progress ,1980 Ion-selective Electrode Reviews ,1984 ASME Technical Papers , Plasma Physics Reports ,1998

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