

Classifying Chemical Reactions

Analyzing and Predicting Products

Introduction

The power of chemical reactions to transform our lives is visible all around us—in our homes, in our cars, even in our bodies. Chemists try to make sense of the great variety of chemical reactions the same way that biologists organize their knowledge of life, by sorting reactions into groups and classifying them. Classifying chemical reactions allows us to predict what chemical reactions will occur when different substances are mixed.

Concepts

- Chemical reactions
- Combination vs. decomposition
- Single vs. double replacement
- Combustion reactions

Background

A chemical reaction is defined as any process in which one or more substances are converted into new substances with different properties. Chemical reactions change the identity of the reacting substance(s) and produce new substances. Observing the properties of the reactants and products is therefore a key step in identifying chemical reactions. Some of the observations that may be associated with a chemical reaction include: (1) release of a gas; (2) formation of a precipitate; (3) color changes; (4) temperature changes; and (5) emission or absorption of light. As these observations suggest, chemical reactions can be dynamic and exciting events! The essence of any chemical reaction—reactants being transformed into products—is summarized in the form of a chemical equation. Consider the reaction represented by Equation 1, the burning of natural gas (methane, CH_4) in a laboratory burner.



The reactants—more specifically, their formulas—are written on the left side of the equation, the products on the right side of the equation. An arrow represents the direction of the reaction and is read as “yields” or “produces.” Other symbols are used to describe the physical state of the reactants and products and the reaction conditions (see Table 1).

Table 1. Symbols in Chemical Equations

Symbol	Translation
$\rightarrow$	Yields or produces (separates reactants from products)
+	Reacts with or forms alongside (separates two or more reactants or products)
Δ	Reaction mixture is heated (written over the arrow)
NR	No reaction takes place when reactants are mixed
(s)	Pure substance (reactant or product) is a solid
(l)	Pure substance (reactant or product) is a liquid
(g)	Pure substance (reactant or product) is a gas
(aq)	Aqueous solution (reactant or product) is dissolved in water
Cat.	Catalyst—a substance needed to initiate a reaction (usually is written over the arrow)

Chemical reactions may be classified by considering the number of reactants and products in the reaction, the physical or chemical nature of the reactants and products, and the rearrangement of atoms in the conversion of the reactants into products (see Table 2 on page 2).

Experiment Overview

The purpose of this experiment is to observe a variety of chemical reactions and to identify patterns in the conversion of reactants into products. The properties of the reactions will be analyzed to classify the chemical reactions into different groups.

Flinn Chemical Reactions Lab

Albert A Gayle



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Chemical Demonstrations Bassam Z. Shakhshiri,1992 Describes and gives instructions for lecture demonstrations covering acids and bases and liquids solutions and colloids *Microscale Organic Laboratory* Dana W. Mayo,Ronald M. Pike,David C. Forbes,2023-02-07 Microscale Organic Chemistry With Multistep and Multiscale Syntheses offers a modern approach to the laboratory experience within the organic division Notable features include inquiry driven experimentation validation of the purification process and the implementation of greener processes including microwave use to perform traditional experimentation In addition to offering alternative methods to perform microscale experiments this text offers strong pedagogy to promote student success through empowerment and encouragement *Exploring Physical Science in the Laboratory* John T. Salinas ,2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts **ENC Focus** ,2001 *Lab Experiments Modern Chemistry* Harold Clark Metcalfe,1982 *Chemistry in the Laboratory* James M. Postma,Julian L. Robert,J. Leland Hollenberg,2004-03-12 This clearly written class tested manual has long given students hands on experience covering all the essential topics in general chemistry Stand alone experiments provide all the background introduction necessary to work with any general chemistry text This revised edition offers new experiments and expanded information on applications to real world situations *Argument-Driven Inquiry in Physical Science* Jonathon Grooms,Patrick J. Enderle,Todd Hutner,Ashley Murphy,Victor Sampson ,2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren t sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do The book is divided into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 22 field tested labs designed to be much more authentic for instruction than traditional laboratory activities The labs cover four core ideas in physical science matter motion and forces energy and waves Students dig into important content and learn scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher The authors are veteran teachers who know your time constraints so they designed the book with easy to use reproducible student pages teacher notes and checkout questions The labs also support

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