

## CHAPTER OVERVIEW

### 2: The Components of Matter

In this chapter, you will learn how to describe the composition of chemical compounds. We introduce *chemical nomenclature*—the language of chemistry—that will enable you to recognize and name the most common kinds of compounds. An understanding of chemical nomenclature not only is essential for your study of chemistry but also has other benefits—for example, it helps you understand the labels on products found in the supermarket and the pharmacy. You will also be better equipped to understand many of the important environmental and medical issues that face society. By the end of this chapter, you will be able to describe what happens chemically when a doctor prepares a cast to stabilize a broken bone, and you will know the composition of common substances such as laundry bleach, the active ingredient in baking powder, and the foul-smelling compound responsible for the odor of spoiled fish. Finally, you will be able to explain the chemical differences among different grades of gasoline.

[2.1: Elements, Compounds, and Mixtures - An Atomic Overview](#)

[2.2: The Observations That Led to an Atomic View of Matter](#)

[2.3: The Observations That Led to the Nuclear Atom Model](#)

[2.4: The Atomic Theory Today](#)

[2.5: Elements - A First Look at the Periodic Table](#)

[2.6: Compounds - Introduction to Bonding](#)

[2.7: Compounds - Formulas, Names, and Masses](#)

[2.8: Mixtures - Classification and Separation](#)

[2.E: The Components of Matter \(Exercises\)](#)

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