

## BIG IDEAS

- Organic compounds have predictable chemical and physical properties determined by their respective structures.
- Organic chemical reactions and their applications have significant implications for society, human health, and the environment.

## Overall Expectations

In this unit, you will...

- **assess** the social and environmental impact of organic compounds used in everyday life, and **propose** a course of action to reduce the use of compounds that are harmful to human health and the environment
- **investigate** organic compounds and organic chemical reactions, and **use** various methods to represent the compounds
- **demonstrate** an understanding of the structure, properties, and chemical behaviour of compounds within each class of organic compounds

## Unit Contents

## Chapter 1

Structure and Physical Properties of Organic Compounds

## Chapter 2

Reactions of Organic Compounds

## Focussing Questions

1. What are the characteristics of organic compounds?
2. What are the general structures and physical properties of hydrocarbons and hydrocarbon derivatives?
3. What types of reactions do organic compounds undergo?

Go to [scienceontario.ca](http://scienceontario.ca) to find out more about organic chemistry



Scientists describe life on Earth as carbon-based. This description reflects the fact that the organic molecules that comprise living organisms are made of carbon atoms that are bonded to other carbon atoms, to hydrogen atoms, and to atoms of a few other elements such as oxygen and nitrogen. Organic molecules may define life, but there are many other non-life-related organic molecules. In addition, organic molecules are not limited to planet Earth. For example, analysis of meteorites like the one shown in the inset photograph has revealed the presence of organic molecules that include amino acids, nucleic acids, sugars, and carboxylic acids—all molecules that make up organisms. Other organic molecules detected in space include hydrocarbon molecules such as methane, and hydrocarbon derivatives, such as methanol and formaldehyde. Some of these organic molecules have even been detected in star systems millions of light years from Earth. For example, the galaxy shown in the photograph is 12 million light years from Earth and contains polycyclic aromatic hydrocarbons, molecules that are essential to life. As you investigate organic molecules and their interactions in this unit, think about their importance as the building blocks of living things as well as how the products derived from them affect your daily life.

As you study this unit, look ahead to the Unit 1 Project on pages 144 to 145. Complete the project in stages as you progress through the unit.

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