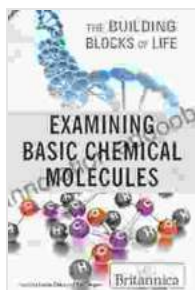


Examining Basic Chemical Molecules: Building Blocks of Life

The world around us is made up of matter, and all matter is composed of atoms. Atoms are the basic units of matter, and they can combine with each other to form molecules. Molecules are the building blocks of life, and they play a vital role in all biological processes.

There are many different types of molecules, but they can be divided into two main categories: organic molecules and inorganic molecules. Organic molecules are composed of carbon, hydrogen, and oxygen, and they are found in all living things. Inorganic molecules do not contain carbon, and they are found in both living and non-living things.



Examining Basic Chemical Molecules (Building Blocks of Life) by Chitra Banerjee Divakaruni

★★★★☆ 4.7 out of 5

Language : English
File size : 10500 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 269 pages

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Organic Molecules

Organic molecules are essential for life. They provide the energy that powers our cells, they build and repair our bodies, and they help us to

communicate with each other.

There are four main types of organic molecules: carbohydrates, lipids, proteins, and nucleic acids.

- **Carbohydrates** are made up of sugar molecules. They provide energy for our cells.
- **Lipids** are made up of fat molecules. They store energy and help to protect our bodies.
- **Proteins** are made up of amino acids. They build and repair our bodies and help us to function properly.
- **Nucleic acids** are made up of nucleotides. They store and transmit genetic information.

Inorganic Molecules

Inorganic molecules are not as complex as organic molecules, but they are still essential for life. They provide the building blocks for our bones and teeth, they help to regulate our body's pH, and they are involved in many chemical reactions.

There are many different types of inorganic molecules, but some of the most important ones include:

- **Water** is the most abundant inorganic molecule on Earth. It is essential for all life, and it helps to regulate our body temperature and transport nutrients.
- **Salts** are inorganic molecules that are composed of positively charged ions and negatively charged ions. They help to regulate our body's pH

and blood pressure.

- **Minerals** are inorganic molecules that are found in the Earth's crust. They are essential for our bones and teeth, and they help to regulate many chemical reactions.

Chemical molecules are the building blocks of life. They play a vital role in all biological processes, and they are essential for our survival. By understanding the structure and function of chemical molecules, we can better understand ourselves and the world around us.

Examples of Molecule



Oxygen
(O_2)



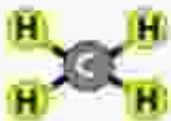
Nitrogen
(N_2)



Hydrogen
(H_2)



Ozone
(O_3)



Methane
(CH_4)



Ammonia
(NH_3)



Glucose
($C_6H_{12}O_6$)



Caffeine
($C_8H_{10}N_4O_2$)



Carbon



Oxygen



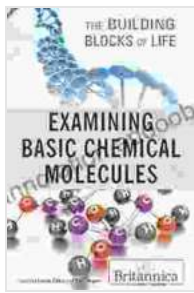
Hydrogen



Nitrogen

Further Reading

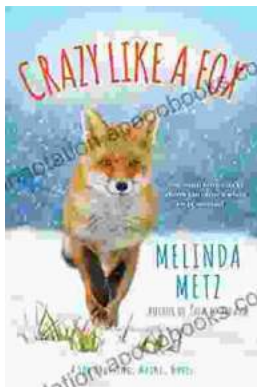
- [Structure of Biological Molecules | Khan Academy](#)
- [Molecule | Britannica](#)
- [Biomolecules - ScienceDirect](#)



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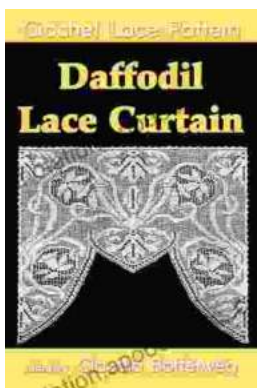
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