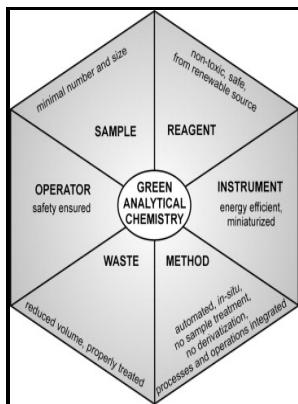


Chemical principles for life

Prentice-Hall - Chemical Principles



Description: -

- Chemistry.

Biochemistry.Chemical principles for life

-Chemical principles for life

Notes: Includes index.

This edition was published in 1978



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Chemistry of Life: Key Building Block for Organic Molecules Discovered in Meteorites

Gold asserted that a trickle of food from a deep, unreachable, source is needed for survival because life arising in a puddle of organic material is likely to consume all of its food and become extinct. The key element of life is carbon — life on earth is carbon-based.

Chemical principles : the quest for insight : Atkins, P. W. (Peter William), 1940

The existence of these molecules are determined by concept known as chirality.

25: Chemistry of Life: Organic and Biological Chemistry

Figure 1 Syntheses in organic molecules. A theory of biochemical organization, metabolic pathways, and evolution. Merck presented a three-step synthesis, claiming an increase in the overall yield.

Chemistry of Life: Key Building Block for Organic Molecules Discovered in Meteorites

Similar difficulties would arise in the prebiotic formation of other important biomolecules. It generates a significant amount of waste since a stoichiometric amount of reducing agent is needed to complete the reaction. Attempts to synthesize RNA — or even the smaller molecules such as ribose sugars that combine to form RNA — have been especially unsuccessful.

25: Chemistry of Life: Organic and Biological Chemistry

RNA is able both to store genetic information, like DNA, and to , like an. Different atoms have different avidities for electrons. Selectively catalyzed processes are superior to stoichiometric processes.

The Origin of Life

Using alternative feedstock or starting materials: Selection of the starting materials has a major effect through the whole synthetic pathway.

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