

Chapter 7

FUNDAMENTAL PRINCIPLES OF ORGANIC CHEMISTRY

INTRODUCTION

Organic chemistry is the chemistry of carbon compounds. Most of the organic compounds also contain hydrogen and many compounds also contain oxygen and other elements. There are few compounds which contain carbon but they are not organic compounds, e.g., CO, CO₂, metal carbonates, bicarbonates, cyanide, and carbides.

Early chemists believed that the compounds which are obtained from living things: (animals and plants) are called organic compounds and which are obtained from minerals are called inorganic compounds.

SYNTHESIS OF FIRST ORGANIC COMPOUND IN THE LABORATORY

For more than 200 years, chemists divided materials into two categories. Those compounds which were isolated from animals and plants were called organic compounds. At one time, chemists believed that organic compounds require a **vital force** for their synthesis which is only present in animals and plants. This theory was called vital force theory. This theory was rejected by Friedrich Wohler when he obtained urea accidentally. Friedrich Wohler was interested in the chemistry of cyanate compounds which contain OCN⁻. In 1828, he tried to synthesize ammonium cyanate from silver cyanate and ammonium chloride. What he expected can be described by the following equation.



The product isolated from this reaction was white crystalline solid identical to urea which could be isolated from urine.

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