

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.

Chapter 7 Chemistry

EW Minium



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Principles Of Descriptive Inorganic Chemistry Gary Wulfsberg, 1991-05-29 This is the only text currently available organized by class of compound and by property or reaction type not group by group or element by element which requires students to memorize isolated facts This is the only text currently available organized by class of compound and by property or reaction type not group by group or element by element which requires students to memorize isolated facts Translated into Italian *Industrial & Engineering Chemistry*, 1924 *The Spirit of Chemistry* Alexander Findlay, 1930 **Corrosion Mitigation Coatings** Ashish Kumar, Chandrabhan Verma, Abhinay Thakur, 2023-11-06 Experience the eco friendly breakthrough in corrosion mitigation through functionalized thin film coatings This book delves deep into the cutting edge advancements in synthesizing and applying functionalized thin film coatings to safeguard metals and alloys by replacing commercially available toxic inhibitors It includes an overview of properties applications and methodologies to detect and inhibit corrosion **Well Completion Design** Jonathan Bellarby, 2009-04-13 Completions are the conduit between hydrocarbon reservoirs and surface facilities They are a fundamental part of any hydrocarbon field development project They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last for many years under ever changing conditions Issues include connection with the reservoir rock avoiding sand production selecting the correct interval pumps and other forms of artificial lift safety and integrity equipment selection and installation and future well interventions Course book based on course well completion design by TRACS International Unique in its field Coverage of offshore subsea and landbased completions in all of the major hydrocarbon basins of the world Full colour

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