

## Perception on Synthetic Organic Chemistry in Industries

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## DESCRIPTION

A number of chemistry-related fields, such as drug discovery, chemical biology, materials science, and engineering, are supported by synthetic organic chemistry. However, carrying out sophisticated chemical syntheses requires specialized expertise, which is often acquired through a long period of study and practical laboratory experience. It has been a half-century since efforts to streamline and automate chemical synthesis began, yet these efforts have not yet been successful.

Improved processing power, data accessibility, and algorithms are reviving interest in Artificial Intelligence (AI), overcoming the previously limited success. With the use of developed synthetic techniques and tactics, synthetic organic chemists may produce versions of some of the most fascinating compounds found in living nature. As they frequently serve as biological tools and therapeutic candidates for clinical development, these molecules aid biology and medicine. Additionally, they are able to synthesize a wide variety of different organic molecules for potential use in numerous fields of science, technology, and daily life by utilizing advanced catalytic reactions and well planned synthetic methods.

So it should come as no surprise that many people believe chemistry, the study of matter, to be the most important subject between physics and biology. Its strength comes from its capacity to dissect and create more or less complicated molecules from atoms and other building blocks. The latter activity, called synthesis, is crucial to human survival because it allows us to produce new chemical entities, or molecules, from which we can obtain our most valuable materials. Organic synthesis is a branch of synthesis that deals with creating naturally occurring or artificial chemicals whose main component is carbon. Total synthesis, the project to replicate in the lab the molecules of living nature, is the pinnacle of organic synthesis.

Synthetic Organic Compounds (SOCs), including waste from

the pulp and paper industries, are reported as xenobiotic chemicals invading the environment from a variety of sources: Due to raising demand in paper industry, the waste released from paper and pulp industry causes pollution in natural reservoirs which include SOCs.

The production of SOCs, such as phenol compounds, furans, dioxins, and benzene compounds, which are major components of industrial discharge in the pulp and paper sectors, occurs during the bleaching stage of pulp treatment. Due to scientific advancements and their uses, the globe has undergone significant change during the past two centuries.

The development of organic synthesis, as evidenced by Wohler's synthesis of urea, is one of these discoveries that have had the greatest impact. Although it has pre-existing roots, this first event, along with advancements in structural theory and analytical methods, provided it the impetus it needed to expand and find use in a variety of sectors. To find the answers to these concerns, we must journey back in time to a time when people practiced manipulating matter to create tools, weapons, medicines, food, and dyes.

## CONCLUSION

Some of the most unique molecules discovered in live nature may be recreated by synthetic organic chemists. By utilizing sophisticated catalytic processes and carefully thought out synthetic procedures, they are able to synthesize a large array of distinct organic molecules for potential use in several domains of research, technology, and everyday life. Synthetic Organic Compounds (SOCs), which are released into the environment by the pulp and paper industries, have aroused concerns. SOC pollution in natural reservoirs is also increasing as a result of the discharge of SOC-containing trash from the paper and pulp industries.

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