

Editorial Note on Analytical Chemistry and Its Applications

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Editorial

Analytical chemistry is a discipline of chemistry concerned with the examination of various chemical compounds. Analytical chemistry is the study and use of equipment and procedures for separating, identifying and quantifying materials. Separation, identification and quantification may be used alone or in combination with other methods in practise. Separation is the process of isolating analytes. Quantitative examination decides the mathematical amount or focus, though subjective investigation recognizes analytes the study of collecting, processing and conveying information about the composition and structure of matter is known as analytical chemistry. To put it another way, it's the art and science of figuring out what matter is and how much of it there is.

Analytical chemistry is a discipline of chemistry concerned with the qualitative and quantitative examination of various materials. Analytical chemists apply their understanding of chemistry, equipment, computers and statistics to solve issues in nearly every branch of chemistry and for a wide range of businesses. Chemistry is an important component of our daily lives. This field of study may be found in many aspects of human existence, including the food we eat, the air we breathe and the many cleaning agents we employ, to the point where human emotions are sometimes the consequence of chemical reactions within our bodies.

Analytical chemistry is essential in medicine because it aids in the measurement of key nutrients such as carbohydrates, lipids, proteins and sugars in the human body. Analytical techniques also aid in the determination of

hazardous waste levels in the body, such as uric acid, cholesterol, medications and certain salts.

Analytical Chemistry in Our Life

Analytical chemistry determines the nutritional properties of food. Analytical chemistry provides the majority of the indices that define the function of our health. The safety of the water we use and so forth. Identification of laboratory substances is critical. We cannot identify without analytical chemistry, therefore to identify such chemicals, we must have analytical chemistry expertise, whether those compounds are food products, holly holiday colours, or other.

Analytical chemistry is a subject that is taught in schools and universities. However, it is used in the pharmaceutical, food, chemical and agriculture sectors, as well as in scientific laboratories. Some of the tools used in the field are extremely costly and they are out of reach for most people at home. Before being allowed onto the market, all packaged goods, pharmaceuticals, chemicals and cosmetics must pass a stringent quality test.

Analytical chemistry is used in a variety of applications in contemporary culture, including drug development, industrial process control, environmental monitoring, medical diagnostics, food production and forensic surveys. It's also critical in a variety of study fields. Analytical chemistry is a branch of science in pharmaceutical sciences that provides knowledge of compound separation, identification and quantification, which can be useful for measuring drug bioavailability, purifying drugs during synthesis and identifying drug metabolic pathways, among other things. Similarly, it is extensively used in environmental studies to investigate air quality (pollution), water and soil composition in a specific location.

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