

Introduction to Analytical Chemistry

Introduction

Everything is made of chemicals. Analytical chemistry determine what and how much. In other words analytical chemistry is concerned with the separation, identification, and determination of the relative amounts of the components making up a sample.

Analytical chemistry is concerned with the chemical characterization of matter and the answer to two important questions what is it (qualitative) and how much is it (quantitative). Analytical chemistry answering for basic questions about a material sample:

- What?
- Where?
- How much?
- What arrangement, structure or form?

Applications of Analytical Chemistry

Analytical chemistry used in many fields:

- In **medicine**, analytical chemistry is the basis for clinical laboratory tests which help physicians diagnosis disease and chart progress in recovery.
- In **industry**, analytical chemistry provides the means of testing raw materials and for assuring the quality of finished products whose chemical composition is critical. Many household products, fuels, paints, pharmaceuticals, etc. are analysed by the procedures developed by analytical chemists before being sold to the consumer.
- **Environmental quality** is often evaluated by testing for suspected contaminants using the techniques of analytical chemistry.
- The nutritional value of **food** is determined by chemical analysis for major components such as protein and carbohydrates and trace components such as vitamins and minerals. Indeed, even the calories in a food are often calculated from the chemical analysis.
- **Forensic analysis** - analysis related to criminology; DNA finger printing, finger print detection; blood analysis.
- **Bioanalytical chemistry and analysis** - detection and/or analysis of biological components (i.e., proteins, DNA, RNA, carbohydrates, metabolites, etc.).

Applications of analytical chemistry in pharmacy sciences.

- Pharmaceutical chemistry.
- Pharmaceutical industry (quality control).
- Analytical toxicology is concerned with the detection, identification and measurement of drugs and other foreign compounds (and their metabolites in biological and related specimens).
- Natural products detection, isolation, and structural determination.

Steps in a Chemical Analysis

- Define the problem.
- Select a method.
- Sampling (obtain sample).
- Sample preparation (prepare sample for analysis).
- Perform any necessary chemical separations
- Analysis (perform the measurement).
- Calculate the results and report.

Analytical Chemistry Lecture Notes

Xiang Xie



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