Lab-1- Prepared by MSc.Ala J.Ahmad

Practical/ Analytical chemistry

 

[Analytical chemistry](https://en.wikipedia.org/wiki/Analytical_chemistry) is indispensable for the operation of certain sectors such as healthcare, industry, administration and academia. In the following lines we will detail its applications and relevance in today’s world. We encourage you to take a look at our collection of books on and discover this interesting scientific field. All these titles are available for immediate download in this section.

We are [science](https://en.wikipedia.org/wiki/Science) lovers and we know that if you have reached this section it is because you are too. We want to accompany you in your journey towards the study of this discipline so relevant to humanity. With our analytical chemistry books you will discover its theoretical bases and fundamental principles, and you will be able to download them to any of your electronic devices.

Organic chemistry is the discipline in charge of analyzing the chemical composition of any substance by means of experimental or laboratory tools. It has two divisions: qualitative analytical chemistry and quantitative analytical chemistry. That is, the type of elements that compose it and the amount or proportion of matter in the object or substance analyzed.

This branch of [chemistry](https://en.wikipedia.org/wiki/Chemistry) has applications in medicine and many other sciences, as well as in the industrial sector, where it plays a key role. For example, it is present in the quantitative measurement of hydrocarbons, carbon monoxide and nitrogen oxides in automobile exhaust gases to analyze the performance of air pollution control tools.

Analytical chemistry includes the following methods of analysis: volumetric, gravimetric, spectrometric, electroanalytical and chromatographic. You will find all this information and much more in our compendium of , we have no doubt that they will be very useful to develop your research in the subject.

Analytical chemistry

Analytical chemistry deals with the methods for the identification of one or

more of the components in the sample of matter and determination of the

relative amount of each. The identification process is called a qualitative

analysis while the determination of amount is termed a quantitative analysis.

Application of chemical analysis

Application of chemical analysis found to be in the measurement of parts per

million of hydrocarbons, nitrogen oxides, and carbon monoxides…..etc. Also

for determination of the concentration of the ionized calcium in blood serum. ,

Standard solution

In analytical chemistry, a standard solution is a solution containing known

concentration of an element or a substance i.e., a known weight of solute is

dissolved to make a specific volume. It is prepared using a standard substance,

such as a primary standard(A primary standard is a highly purified chemical .

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