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Reflection

Chapter 1: This chapter gave me basic understanding of analytical chemistry, what it is, its goals, how to do it properly and how to check the results obtained are coherent. It also reminded me of basic chemistry rules and formulas, to ensure safe labs.

Chapter 2: This chapter gives facts and formulas about data handling. All the formulas, mean, median, errors etc are very helpful to better verify the coherence of results and understand the statistics of it. Also, by analyzing the different causes of errors, chemists can better results, by making careful to properly have calibrate instruments and be personally focused.

Chapter 3: This chapter helps better understand different methods: precipitation and volatilization. Also, we can look at the quality of the analyte, the type? is it colloidal or crystalline. Lastly the precipitation process with the detailed steps is important as well as knowing the risks of co-precipitation.

Chapter 4: ~~The~~ Here we introduce the different spectrochemical methods. We can look at the mixture, do both qualitative and quantitative analysis. Understanding the formulas of Transmittance and Absorption is quite important. Beer Lambert's law is explained, as well as the basic principles of atomic emission, as well as how to interpretate it and calculate.

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Chapter 5: We learn to determine the compound based on the spectroscopy, specifically organic compounds.

Chapter 7: We analyze the principle of chromatographic method, whether gas or liquid.

Chapter 6: Introduction of Molecular Spectroscopy, principle, equipment and introduction

Chapter 8: Gas chromatography works by analyzing volatile and organic compounds. The specific instrumentation has many component to understand.

Chapter 9: Liquid chromatography. Similarly we explain the principle, instrumentation and interpretation