



SAMPLE PREPARATION FOR FLAME ATOMIC ABSORPTION SPECTROSCOPY: AN OVERVIEW

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ABSTRACT

Sample preparation is an important step in chemical analysis, from time and reagent consuming point of view and from the probability of errors. The present article gives an overview of recently most used techniques in sample preparation for flame atomic absorption spectroscopy. Wet and dry sample decomposition techniques, separation and pre-concentration methods of the target analyte(s) have been discussed.

Keywords: Sample preparation, FAAS, decomposition, separation, pre-concentration

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INTRODUCTION

Elemental analysis of the majority of organic and inorganic matrices requires the partial or total dissolution of the sample prior to instrumental analysis.

Analysis by spectroscopic methods practically always necessitates a simple or more complex preparation of the sample. These steps are generally the most critical part of analysis because they are responsible for the most important errors.¹⁻³

Only a few direct methods allow the introduction of the sample without any preparation. In these cases the lack of reliable calibration is the major problem. On the other hand, sample preparation allows the separation and/or pre-concentration of analytes and makes possible the use of several determination methods.

Sample preparations involve digestion, extraction and preparation of the analytes before the analysis, so this step is time limiting, requiring ca. 61% of the total time to perform the complete analysis, and is responsible for 30% of the total analysis error. Nowadays the goals to be reached are the best results, in the shortest time, with minimal contamination, low reagent consumption and generation of minimal residue or waste.¹

Sample preparation was probably the single most neglected area in analytical chemistry relatively to the great interest in instruments. While the level of sophistication of the instrumentation for analysis has increased significantly, a comparatively low technical basis of sample preparation often remains.⁴

Sample preparation and development of methods have now become a growing field along with instrumental improvements. There are drastic improvements in the detection power of measurement techniques used. Consequently, the analyst also realizes that it is often no longer mandatory to resort to laborious, dubious and time-consuming separation or pre-concentration steps in the sample preparation procedures.²

It is normal in atomic spectroscopy for the sample to be found in one of two forms solid or liquid. The liquid case would seem to be the easiest form in which to handle the sample, with maybe a requirement for filtration being all that is required. However, the inherent lack of sensitivity of many spectroscopic techniques and the need to carry out determinations at lower and lower levels means that invariably some form of pre-concentrations is required. If the sample is in a solid form, the normal requirement is to convert it into the liquid form although it is possible to analyse solids directly by using the atomic spectroscopy, but this is not the preferred approach.⁴

The principal objectives of sample preparation for residue analysis are: isolation of the analytes of interest from as many interfering compounds as possible, dissolution of the analytes in a suitable solvent and pre-

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Table of Contents Sample Preparation For Flame Atomic Absorption

1. Understanding the eBook Sample Preparation For Flame Atomic Absorption
 - The Rise of Digital Reading Sample Preparation For Flame Atomic Absorption
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Preparation For Flame Atomic Absorption
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sample Preparation For Flame Atomic Absorption
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Preparation For Flame Atomic Absorption
 - Personalized Recommendations
 - Sample Preparation For Flame Atomic Absorption User Reviews and Ratings

- Sample Preparation For Flame Atomic Absorption and Bestseller Lists
- 5. Accessing Sample Preparation For Flame Atomic Absorption Free and Paid eBooks
 - Sample Preparation For Flame Atomic Absorption Public Domain eBooks
 - Sample Preparation For Flame Atomic Absorption eBook Subscription Services
 - Sample Preparation For Flame Atomic Absorption Budget-Friendly Options
- 6. Navigating Sample Preparation For Flame Atomic Absorption eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Preparation For Flame Atomic Absorption Compatibility with Devices
 - Sample Preparation For Flame Atomic Absorption Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Preparation For Flame Atomic Absorption
 - Highlighting and Note-Taking Sample Preparation For Flame Atomic Absorption
 - Interactive Elements Sample Preparation For Flame Atomic Absorption
- 8. Staying Engaged with Sample Preparation For Flame Atomic Absorption
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Preparation For Flame Atomic Absorption
- 9. Balancing eBooks and Physical Books Sample Preparation For Flame Atomic Absorption
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Preparation For Flame Atomic Absorption
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Preparation For Flame Atomic Absorption
 - Setting Reading Goals Sample Preparation For Flame Atomic Absorption
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Preparation For Flame Atomic Absorption
 - Fact-Checking eBook Content of Sample Preparation For Flame Atomic Absorption
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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