

# Analysis of Food Dyes in Beverages

## AP Chemistry Advanced Inquiry Lab

### Introduction

Assume an investigative role and design a valid procedure using spectroscopy and graphical analysis to determine the concentration of FD&C food dyes in sports drinks. The investigation will develop and test your skills in preparing accurate serial dilutions, understanding spectroscopic measurements, and extrapolating from graphical data.

### Concepts

- Spectroscopy
- Absorbance vs. transmittance
- Wavelength
- Consumer science
- Beer's law
- Solution concentration

### Background

The **color** of a solution is an important tool used by scientists to gain information about the composition of the solution. Color is a physical property that is useful for both **qualitative** and **quantitative** analysis. A *qualitative* method yields information about the nature or type of compound in a sample, where as a *quantitative* method provides numerical data for the amount of a compound in a sample.

**Spectroscopy** is the study of the interaction of light and matter. A spectrophotometer is an instrument that uses electromagnetic radiation from a selected region of the electromagnetic spectrum, such as **ultraviolet**, **visible** or **infrared** light, to analyze the **absorption** or **transmission** of radiation by a sample. The basic function of a spectrophotometer is shown in **Figure 1**. The electromagnetic spectrum (see **Figure 2**) is the entire range of possible wavelengths or frequencies of electromagnetic radiation. In this investigation a visible spectrophotometer will be used—it scans the visible region of the electromagnetic spectrum, from 380 nm to 750 nm. Typical light sources for visible spectrophotometers include xenon and tungsten lamps.



Figure 1.



Figure 2.

# Analysis Of Food Dyes In Beverages Flinn Science Answers

**J Elliott**



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This book delves into Analysis Of Food Dyes In Beverages Flinn Science Answers. Analysis Of Food Dyes In Beverages Flinn Science Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Analysis Of Food Dyes In Beverages Flinn Science Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Analysis Of Food Dyes In Beverages Flinn Science Answers
    - Chapter 2: Essential Elements of Analysis Of Food Dyes In Beverages Flinn Science Answers
    - Chapter 3: Analysis Of Food Dyes In Beverages Flinn Science Answers in Everyday Life
    - Chapter 4: Analysis Of Food Dyes In Beverages Flinn Science Answers in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Analysis Of Food Dyes In Beverages Flinn Science Answers. The second chapter will elucidate the essential principles that must be understood to grasp Analysis Of Food Dyes In Beverages Flinn Science Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Analysis Of Food Dyes In Beverages Flinn Science Answers in daily life. This chapter will showcase real-world examples of how Analysis Of Food Dyes In Beverages Flinn Science Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Analysis Of Food Dyes In Beverages Flinn Science Answers in specific contexts. The fourth chapter will explore how Analysis Of Food Dyes In Beverages Flinn Science Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Analysis Of Food Dyes In Beverages Flinn Science Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Analysis Of Food Dyes In Beverages Flinn Science Answers.

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