

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.

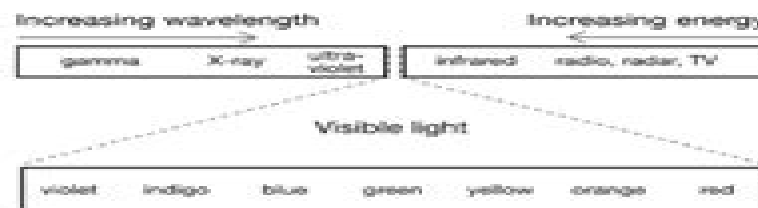


Figure 2.

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Dianne N. Epp



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The Chemistry of Food Dyes Dianne N. Epp, 1995 This teacher resource contains background information and hands on activities that explore the history safety and purpose of food colorants Students investigate the compounds that give foods their natural color and the synthetic colorants currently approved for the use in foods Teachers will appreciate the reproducible classroom materials cross curricular integration ideas and clear references to the National Science Education Standards Appropriate for grades 9 12 **Spectrophotometric Analysis of Food Dye Solutions** Robert P.

Pinnell, 1989-01-01 *Natural Food Dyes* Samuel Livingston, AI, 2025-03-11 *Natural Food Dyes* explores the science and application of plant based colorants as a safer more sustainable alternative to artificial dyes in the food industry The book highlights the resurgence of natural food dyes driven by consumer concerns about the potential health risks associated with artificial additives Did you know the shift back to natural dyes echoes historical practices before synthetic options dominated due to cost and color intensity This book navigates the complexities of extraction methods and the chemical composition of natural colorants like anthocyanins and carotenoids The book examines the safety and regulatory aspects of both natural and artificial dyes providing a comparative analysis supported by scientific studies Addressing challenges such as color stability and ingredient interactions it offers practical guidance for using natural dyes in food processing The book progresses from the fundamental principles of color chemistry and the history of food coloring to a detailed exploration of various plant based colorants their sources and extraction methods It concludes with a discussion of future trends emphasizing advancements in extraction technologies and the development of novel color sources crucial for understanding the sustainable food practices

Colour Additives for Foods and Beverages Michael J. Scotter, 2015-02-04 Food colour additives have been the focus of much research in the last few years and there is increasing consumer demand for natural and safer synthetic colours This book reviews the natural and synthetic colours available their properties and applications as well as regulatory sensory and analytical issues Part one covers the development and safety of food colour additives Part two covers properties and methods of analysis and part three focuses on specific food product applications and future trends Reviews the natural and synthetic colour additives available for foods and beverages looking at their properties and applications as well as regulatory sensory and analytical issues Expert analysis of natural origin colours synthetic origin colours overview of regulations safety analysis and consumer health Comprehensive coverage of properties and development in food colours chemical purity colour stability and consumer sensory perception **Chemistry and Analysis of the Permitted Coal-tar Food Dyes** Joseph Alfred

Ambler, 1926 **Chemistry and Analysis of the Permitted Coal-Tar Food Dyes (Classic Reprint)** Joseph Alfred Ambler, 2018-03-19 Excerpt from Chemistry and Analysis of the Permitted Coal Tar Food Dyes For guinea green B Transfer to a 500 c C Volumetric ask that volume of the master solution which contains 5 grams of the dye Add water if necessary to bring the volume to 400 c 0 Add 8 c C Of strong ammonium hydroxide and 125 grams of sodium chloride free from sul hates

and dilute to 500 c C With a saturated solution of sodium 0 oride Shake vigorously to precipitate the dye and filter through a dry paper Neutralize 200 c C Of the filtrate with dilute hydrochloric acid 1 9 and add 5 c C In excess Complete the determination and calculate as direct cd in the first paragraph of this section beginning with Heat to boiling and add a slight excess of hot 10 per cent barium chloride solution About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Chemistry and Analysis of the Permitted Coal-tar Food Dyes, 1926 *Current Aspects of Food Colorants* Thomas E. Furia, American Chemical Society, 1977 Papers presented at a symposium given in conjunction with the 173d meeting of the American Chemical Society held Mar 20 25 1977 in New Orleans **Cromatography of food dyes on sephadex** J. R. Parrish, 1967 **Chemistry and Analysis of the Permitted Coal-tar Food Dyes Ponceau SX, Sunset Yellow FCF, and Brilliant Blue FCF** Oscar Ludvig Evenson, Horace Terhune Herrick, 1930

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