

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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Tobias Bleicker



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Handbook of Food Analysis Instruments Semih Otles, 2016-04-19 Explore the Pros and Cons of Food Analysis Instruments The identification speciation and determination of components additives and contaminants in raw materials and products will always be a critical task in food processing and manufacturing With contributions from leading scientists many of whom actually developed or refined each technique or **The Chemical Analysis of Foods and Food Products** Morris Boris Jacobs, 1951 Developments in Food Analysis Techniques Richard D. King, 1978 Abstract Authoritative reviews for food analysts and food and nutrition scientists review and discuss in detail modern analytical methods for determining dietary fiber trace elements mycotoxins and pesticides in foods and for assessing the immunological attributes of foods The topics include a discussion of the analytical problems associated with dietary fiber measurements aspects of trace metal analysis ranging from beneficial to toxic trace metal levels the problems of representative sampling and quantitative sample preparations in detecting and estimating food mycotoxins a food related approach for assessing pesticidal contaminants in food and the potential of immunological methods for food analysis including recent adaptations of monoclonal antibody production to routine analysis laboratory use wz *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 **Fabrication and Advanced Applications of Nanomaterial-Based Electrochemical Sensors** Shashanka Rajendrachari, Vinayak Adimule, 2025-10-17 Fabrication and Advanced Applications of Nanomaterial Based Electrochemical Sensors will help students understand the concept of nanomaterial based electrochemical sensors easily by giving simple examples and illustrations Electrochemical sensors can determine various bioactive compounds and organic molecules but the further addition of nanomaterials into the electrode can increase the detection limit due to their excellent electrical and chemical properties and their huge surface area Nanomaterial based electrochemical sensors can also detect toxic waste and thereby reduce the risk of waterborne diseases to both humans and aquatic animals This book seeks to enhance environmental awareness and explain how electrochemical sensors contribute to a more sustainable and conscious way of living The book will be useful for researchers who are fabricating various nanomaterial based electrodes to determine neurotransmitters organics toxic dyes surfactants

and various bioactive compounds as well as engineering chemistry electrochemistry and nanomaterial students at the undergraduate and postgraduate level

Key Features The first book to cover novel applications of nanomaterial based electrochemical sensors Discusses various nanomaterials and composite materials as modifiers for the electrochemical determination of different dyes pesticides toxic chemicals neurotransmitters food additives and heavy metals Describes the facilitation of nanomaterial based electrochemical sensors as compared with other conventional modifiers Natural and Artificial Flavoring Agents and Food Dyes Alexandru Mihai Grumezescu, Alina Maria Holban, 2017-09-15 Natural and Artificial Flavoring Agents and Dyes Volume 7 in the Handbook of Food Bioengineering series examines the use of natural vs artificial food dyes and flavors highlighting some of the newest production and purification methods This solid resource explores the most recent trends and benefits of using natural agents over artificial in the production of foods and beverages Using the newest technologies and evidence based research methods the book demonstrates how natural flavoring agents and dyes can be produced by plants microorganisms and animals to produce higher quality foods that are more economical and safe to the consumer Explores the most common natural compounds and how to utilize them with cutting edge technologies Includes information on the purification and production processes under various conditions Presents the latest research to show benefits of using natural additives *Ice Cream, Carbonated Beverages, with a Short Introduction to the Study of Chemistry and Physics* Warner-Jenkinson Mfg. Co, 1924 *Allen's Commercial Organic Analysis* Alfred Henry Allen, 1927 **Journal of AOAC International** ,1994 Siebel Technical Review ,1928 IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man ,1977 **Handbook of U.S. Colorants for Foods, Drugs, and Cosmetics** Daniel M. Marmion, 1984 **Food Inspection and Analysis** Albert Ernest Leach, 1920 *IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man* International Agency for Research on Cancer. Working Group on the Evaluation of the Carcinogenic Risk of Chemicals to Man, IARC Working Group on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, 1972 *IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man* International Agency for Research on Cancer, 1972 Food Science and Technology Abstracts ,1985 Monthly References from world literature of books about 1000 journals and patents from 18 selected countries Classified arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology Author subject indexes The Siebel Technical Review ,1932 **Food Inspection and Analysis, for the Use of Public Analysts, Health Officers, Sanitary Chemists, and Food Economists** Albert Ernest Leach, 1920 **A Reference Handbook of the Medical Sciences** Albert Henry Buck, 1893 *Government Reports Announcements* ,1966

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