

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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S. Suzanne Nielsen



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Applications of the Voltammetry Margarita Stoytcheva, Roumen Zlatev, 2017-06-07 The present book *Applications of Voltammetry* is a collection of six chapters organized in two sections The first book section is dedicated to the application of mathematical methods such as multivariate calibration coupled with voltammetric data and numeric simulation to solve quantitative electroanalytical problems The second book section is devoted to the electron transfer kinetic studies and electroanalytical applications of the voltammetry such as interfacial electron transfer of the haem group in human haemoglobin molecules physisorbed on glass tin doped indium oxide substrates analysis of dyes and metal ions in trace concentrations and characterization of the antioxidant properties of wine and wine products using a variety of voltammetric techniques and electrodes The most recent trends and advances in voltammetry are professionally commented **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 , Food Analysis Suzanne Nielsen, 2014-09-04 This book provides information on the techniques needed to analyze foods in laboratory experiments All topics covered include information on the basic principles procedures advantages limitations and applications This book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information is provided on regulations standards labeling sampling and data handling as background for chapters on specific methods to determine the chemical composition and characteristics of foods Large expanded sections on spectroscopy and chromatography also are included Other methods and instrumentation such as thermal analysis ion selective electrodes enzymes and immunoassays are covered from the perspective of their use in the analysis of foods A website with related teaching materials is accessible to instructors who adopt the textbook Coal-tar Colors Used in Food Products Bernhard Conrad Hesse, 1912 **Food and Nutrition Information and Educational Materials Center catalog** Food and Nutrition Information Center (U.S.), 1976 Food Analysis S. Suzanne Nielsen, 2017-06-06 This fifth edition provides information on techniques needed to analyze foods for chemical and physical properties The book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information chapters on regulations labeling sampling and

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The Complete book on Natural Dyes & Pigments NIIR Board of Consultants & Engineers, 2005-10-04 Natural dyes are dyes or colorants derived from plants invertebrates or minerals The majority of natural dyes are vegetable dyes from plant sources Dyeing is the process of imparting colors to a textile material Different classes of dyes are used for different types of fiber and at different stages of the textile production process from loose fibers through yarn and cloth to completed garments There are technologies that manufacture the pigments for plastics rubber and cosmetics Therefore dyes and pigments have a vast area of applications and have a huge demand in industry Contrary to popular opinion natural dyes are often neither safer nor more ecologically sound than synthetic dyes They are less permanent more difficult to apply wash out more easily and often involve the use of highly toxic mordant Of course the colour possibilities are far more limited the color of any natural dye may be easily copied by mixing synthetic dyes but many other colors are not easily obtained with natural dyes However some mordant are not very toxic and the idea of natural dyestuffs is aesthetically pleasing Applying natural dyes in your fabric production using enzymes will reduce your production cost and improve control There are various kind of natural dyes quinonoid dyes cyanine dyes azo dyes biflavonyl dyes omochromes anthraquinone coprosmas etc The use of natural dyes in cloth making can be seen as a necessary luxury to trigger off a change in habits Dyes which stand out for their beauty and ecological attributes would never be employed on just any material but on noble fabrics such as wool silk linen or cotton made to last more than one season Market value will benefit from consumer preferences for environmentally friendly products which will support consumption of high performance dyes and organic pigments This book basically deals with the use of carotenoids as food colours bianthraquinones and related compounds intermediate degradation products of biflavonyls dyestuffs containing nuclear sulphonic and carboxylic acid groups quinonoid dyes cyanine dyes optical whitening agents natural dyes for food stability of natural colourants in foods effect of additives pyrimidine pigments the total synthesis of the polyene pigments red pigment from geniposidic acid and amino compound effect of acid and amine on the formation of red pigment from geniposidic acid effect of the substituted position of amino group and chain length of amino compound etc Due

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