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.

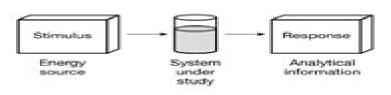


Figure 1.

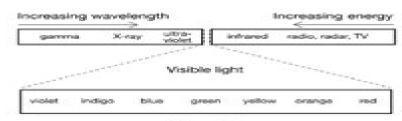


Figure 2.

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NIAAA Information & Feature Service National Institute on Alcohol Abuse and Alcoholism (U.S.),1974 NIAAA **Information and Feature Service** ,1976 Scientific American, 1868 The National Union Catalog ,1961 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips The Cornellian Princeton Alumni Weekly ,1974 New York Magazine, 1991-01-14 New York magazine was born in 1968 after .1998 a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself Designs in Affective Education Elizabeth W. Flynn, John F. La while celebrating New York as both a place and an idea Canadiana ,1980 Library of Congress Catalog Library of Congress, 1961 Western Brewer, and Journal Faso, 1974 of the Barley, Malt and Hop Trades ,1926 Films and Other Materials for Projection Library of Congress, 1953 Book Review Index ,1978 Every 3rd issue is a guarterly cumulation Bowker's Complete Video Directory, 2000 Editor & Publisher Market Guide .1954 Forthcoming Books Rose Arny, 2003 The New York Times Index .1979 Bibliography of Agriculture with Subject Index ,1995 Subject Guide to Books in Print ,1984 Medical and Health Care Books and Serials in Print .1986

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