

ATOMIC EMISSION SPECTROSCOPY

INTRODUCTION

Identification of the composition of materials by spectroscopy is a technique that has been used extensively in astronomy and chemistry. Light from the material observed, whether it is from a distant star or a chemical in a laboratory is passed through a prism or a diffraction grating. The prism or grating separates the electromagnetic spectrum into its component wavelengths that can then be measured. The visible part of the spectrum is the portion of the electromagnetic spectrum observable by the human eye and provides enough data to be used as an identification technique for some elements.

The spectrum is a manifestation of the difference in electronic energy levels in the particular substance being studied. The human eye is able to see the wavelengths of light given off by an excited hydrogen electron making a transition from an outer n level to $n = 2$. There are many other transitions (including transitions to the hydrogen electron ground state at $n = 1$) that the human eye is unable to detect. The difference in energy levels for the visible spectrum of a hydrogen atom can be represented as:

$$\Delta E = R_H \left[\frac{1}{2^2} - \frac{1}{n^2} \right] \quad (1)$$

where R_H is the Rydberg constant which, in energy units, has the value of $2.180 \times 10^{-18} \text{ J}$. Because we measure the wavelengths of the transitions in the spectrum instead of the energy, and because

$$\Delta E = \frac{hc}{\lambda} \quad (2)$$

equation (1) becomes:

$$\frac{1}{\lambda} = \frac{R_H}{hc} \left[\frac{1}{2^2} - \frac{1}{n^2} \right] \quad (3)$$

where h is Planck's constant and c is the speed of light. Because R_H , h , and c are all constants we can combine them into one constant, R_{∞} . We can now write Equation (3) as

$$\frac{1}{\lambda} = R_{\infty} \left[\frac{1}{2^2} - \frac{1}{n^2} \right] \quad (4)$$

In this form, the accepted value of the modified Rydberg constant, R_{∞} , is $1.097 \times 10^7 \text{ m}^{-1}$.

In this experiment a hand-held spectroscope, which utilizes a simple diffraction grating, will be used to separate the visible light into its components. The atomic spectral data from hydrogen will be used to determine the value of the Rydberg constant in units of m^{-1} .

Atomic Emission Spectroscopy Lab Answers

**United States. Energy Research and
Development Administration**



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Food Analysis Laboratory Manual S. Suzanne Nielsen, 2017-06-07 This third edition laboratory manual was written to accompany Food Analysis Fifth Edition by the same author New to this third edition of the laboratory manual are four introductory chapters that complement both the textbook chapters and the laboratory exercises The 24 laboratory exercises in the manual cover 21 of the 35 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic Most of the laboratory exercises include the following background reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis

Report summaries United States. Environmental Protection Agency, 1983 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1976 **Energy Research Abstracts** ,1986 **Government Reports Announcements & Index** ,1982 Kawasaki Steel Technical Report ,2000 U.S. Government Research & Development Reports ,1970 **Scientific Basis for Nuclear Waste Management XVII** Materials Research Society, 1994 *Government Reports Announcements* ,1975-03 Applications of Microanalytical Techniques to Understanding Mineralizing Processes Michael A. McKibben, Wayne C. Shanks, W. Ian Ridley, 1998 **Instrumentation for Environmental Monitoring: Radiation** George A. Morton, 1983 V 1 Radiation principal authors Robert J Budnitz et al editorial committee George A Morton et al v 2 Water principal authors Mary S Wuniby Hunt Ralph D McLaughlin Alexandre T Quintanilha editors A E Greenberg G A Morton *Physics Briefs* ,1992 **British Technology Index** ,1975 **EPA Publications Bibliography, 1984-1990: Report summaries** United States. Environmental Protection Agency, 1990 **INIS Atomindex** ,1988 *Metals Abstracts* ,1992 EPA Publications Bibliography, 1984-1990: Report summaries ,1990 **Developing and Sustaining a Research-supportive Curriculum** Kerry K. Karukstis, Timothy E. Elgren, 2007 This compendium of successful curricular and institutional practices to develop critical research skills emphasized the importance of the collective efforts of the undergraduate community to integrate research and education By collecting and disseminating a variety of mechanisms that are effective means of creating a research supportive undergraduate curriculum the Council on Undergraduate Research aims to encourage faculty and institutions to continue to seek creative useful and significant ways to promote learning through research Publisher's description **Biannual Report** Pennsylvania State University. Center for Air Environment Studies, 1979 *Government Reports Annual Index* ,1994

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web log H₁₀ 4.05891 × 10⁻⁵ mol dm⁻³ log pK_a pH 3.7540503010030050 and HCOOH 0.1 so HCOO⁻ 0.200 mol dm⁻³ amount vol x

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