

## Experiment 25

### Observations and Calculations: pH: Buffers and Their Properties

#### A. Determination of pH by the Use of Acid-Base Indicators

Indicator	Color with 0.1 M Solution of			
	HCl	$\text{NaH}_2\text{PO}_4$	$\text{HC}_2\text{H}_3\text{O}_2$	$\text{ZnSO}_4$
Methyl violet	blue	dark violet	dark purple	purple
Thymol blue	red	yellow	orange	yellow
Methyl yellow	red	yellow	red-orange	yellow
Congo red	purple	brown	dark purple	red-orange
Bromocresol green	yellow	green	yellow	green
pH range	1-3	2-4	2-3	2-5

Circle the observation(s) for each solution that was (were) most useful in estimating the pH range.

#### B. Measurement of the pH of Some Typical Solutions

Record the pH and the color observed with bromocresol green for each of the 0.1 M solutions that were tested.

	$\text{NaCl}^1$	$\text{Na}_2\text{CO}_3^2$	$\text{NaC}_2\text{H}_3\text{O}_2^3$	$\text{NaHSO}_4^4$
pH	4.94	10.97	7.17	1.67
Color	green	blue	blue	yellow

For any two solutions having a pH less than 6 or greater than 8, write a net ionic equation to explain qualitatively why the solution has that pH.

Solution  $\text{Na}_2\text{CO}_3$  Equation  $\text{CO}_3^{2-} + \text{H}_2\text{O} \rightleftharpoons \text{HCO}_3^- + \text{OH}^-$

Solution  $\text{NaHSO}_4$  Equation  $\text{HSO}_4^- + \text{H}_2\text{O} \rightleftharpoons (\text{SO}_4)^{2-} + \text{H}_3\text{O}^+$

Explain why the color observed with bromocresol green for each of the four solutions is reasonable, given the pH.

#### C. Some Properties of Buffers

Buffer system selected  $\text{HCO}_3^- - \text{CO}_3^{2-}$  HB is hydrogen carbonate-carbonate (name the acid)

1. pH of buffer 9.28  $[\text{H}^+] 5.24 \times 10^{-10}$  M  $\text{pK}_a$  (by Eq. 4b) \_\_\_\_\_

2. pH of diluted buffer 9.24  $[\text{H}^+] 5.75 \times 10^{-10}$  M  $\text{pK}_a$  \_\_\_\_\_

pH after addition of 5 drops NaOH 9.34

pH after addition of 5 drops HCl 9.25

Comment on your observations in Parts 1 and 2.

(continued on following page)

# Experiment 25 ph Measurements Buffers And Their Properties

**Didier Musso**



## **Experiment 25ph Measurements Buffers And Their Properties:**

**Invertebrate Oxygen-binding Proteins** Jean Lamy, Josette Lamy, 1981      **Determination of the Size and Shape of Protein Molecules** P. Alexander, R. J. Block, 2014-05-12 Analytical Methods of Protein Chemistry Volume 3 Determination of the Size and Shape of Protein Molecules provides information pertinent to the analysis and isolation of protein This book deals with the measurement of the macromolecular properties of proteins Organized into seven chapters this volume begins with an overview of the theory and practice of the electron microscope to allow an understanding of the type of object that may be examined This text then describes the methods of making protein molecules conform to such an ideal which are the techniques of specimen preparation Other chapters consider the determinations of osmotic pressures of proteins This book discusses as well the experimental basis for the theory of the diffusion process in liquids The final chapter deals with the technical problem characteristics of light scattering This book is a valuable resource for electron microscopists protein chemists biologists physicist physico chemists scientists and research workers      *Chemical Aspects of the Effects of Calcium on Nerve Membrane Properties* Dennis Reinhold Hafemann, 1967      **Russian Journal of Physical Chemistry** ,1963

**Journal of Experimental Biology** ,2005      **Water Pollution IX** C. A. Brebbia, D. Prats Rico, Y. Villacampa Esteve, 2008 Featuring papers from the Ninth International Conference on Water Pollution this volume covers coastal areas and seas lakes and rivers groundwater and aquifer issues oil spills agricultural contamination environmental monitoring and sensing and remote sensing applications      *Australian Journal of Experimental Agriculture* ,1985      **The Journal of Biological Chemistry** ,1965 Vols 3 140 include the society s Proceedings 1907 41      *Bacterial Pathogenesis* Virginia L. Clark, Patrik M. Bavoil, 1997 This work contains a selection of key articles from volumes 235 and 236 of Methods in Enzymology It presents in benchtop format assays and methods used to identify and characterize determinants of bacterial virulence The book features examples of in vitro systems to determine bacterial virulence classical and molecular approaches to identify bacterial strains and components involved in virulence molecular approaches to study genetics and regulation in pathogenic bacteria and molecular and cellular interaction of bacterial pathogens with host immune system      **Indian Journal of Experimental Biology** ,1977-07      *Journal of Clinical & Laboratory Immunology* ,1986      **A Laboratory Manual of Analytical Methods of Protein Chemistry, Including Polypeptides** Peter Alexander, Richard Joseph Block, Harold Palmer Lundgren, 1960 In the last fifteen years there has been a revolution in the techniques available for the analysis and isolation of proteins Every time a new technique has been introduced numerous papers have appeared describing modifications to it and the research worker who wishes to employ these methods is faced with a very serious problem in deciding which particular variant to use These volumes are intended to provide the fullest practical detail so that any scientist can follow the procedure by using this book alone and without having recourse to the original literature The techniques which are described in full are ones in which all the authors have had first hand experience and the descriptions contain those small but

important points which save so much time In the first volume separation and isolation procedures are discussed the second concerns its analysis and reactivity and the third volume with the measurement of the macromolecular properties of proteins

*Tappi Journal* ,1995      **Soviet Journal of Bioorganic Chemistry** ,1976      *Chemistry of Penicillin* Hans T.

Clarke,2015-12-08 This book makes available for interested scientists to procure absorb and evaluate the vast body of information on the research and results of the work on the chemistry of penicillin done in England and the United States during the war The National Academy of Sciences arranged for the preparation of this summary Dr H T Clarke and Dr J R Johnson representing the United States on the editorial board and Sir Robert Robinson representing Britain The body of the work was prepared by more than 60 outstanding biochemists and biophysicists who describe the phases of research to which they contributed the most The work of 23 academic medical industrial and government laboratories is reported Originally published in 1949 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905      Drug-like Properties: Concepts, Structure Design and Methods

Li Di,Edward H Kerns,2010-07-26 Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target typically only a fraction of these have sufficient ADME Tox properties to become a drug product Understanding ADME Tox is critical for all drug researchers owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery If the properties are weak the candidate will have a high risk of failure or be less desirable as a drug product This book is a tool and resource for scientists engaged in or preparing for the selection and optimization process The authors describe how properties affect in vivo pharmacological activity and impact in vitro assays Individual drug like properties are discussed from a practical point of view such as solubility permeability and metabolic stability with regard to fundamental understanding applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance The authors also review various methods for the screening high throughput diagnosis medium throughput and in depth low throughput analysis of drug properties Serves as an essential working handbook aimed at scientists and students in medicinal chemistry Provides practical step by step guidance on property fundamentals effects structure property relationships and structure modification strategies Discusses improvements in pharmacokinetics from a practical chemist s standpoint      **Canadian**

**Journal of Chemistry** ,1999      **Canadian Journal of Biochemistry** ,1977      **Journal of the Indian Chemical Society**

Indian Chemical Society,1990      **Stability of Heavy Minerals** Einhart Nickel,Volker Dietz,Wolf-Dieter Grimm,1973

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