

Chem 115: Answers to Chapter 6_Aqueous Ionic Equilibrium Practice Questions

Name of Instructor: Pearson W. K. Ahiaonu

Practice Question 1

Calculate the pH of the buffer that results from mixing 60.0 mL of 0.250 M HCHO_2 and 15.0 mL of 0.500 M NaCHO_2 (K_a for $\text{HCHO}_2 = 1.8 \times 10^{-4}$)



$$\begin{aligned} \text{Total Volume of buffer} &= 60.0 \text{ mL} + 15.0 \text{ mL} \\ &= 75.0 \text{ mL} = 0.075 \text{ L} \end{aligned}$$

$$[\text{HCHO}_2] = \frac{0.060 \text{ L} \times 0.250 \text{ M}}{0.075 \text{ L}} = 0.200 \text{ M}$$

$$[\text{CHO}_2^-] = \frac{0.015 \text{ L} \times 0.500 \text{ M}}{0.075 \text{ L}} = 0.100 \text{ M}$$

$$\Rightarrow \text{pH} = \text{p}K_a + \log \frac{[\text{CHO}_2^-]}{[\text{HCHO}_2]}$$

$$= -\log (1.8 \times 10^{-4}) + \log \left(\frac{0.100}{0.200} \right)$$

$$= - (0.25527 - 4) + (-0.30103)$$

$$= 3.7447275 - 0.30103$$

$$= 3.44$$

Aqueous Ion Equilibrium Practice

Paul R. Loconto



Aqueous Ion Equilibrium Practice:

PHYSICAL METALLURGY: PRINCIPLES AND PRACTICE, Third Edition RAGHAVAN, V., 2015-11-10 This well established book now in its Third Edition presents the principles and applications of engineering metals and alloys in a highly readable form This new edition retains all the basic topics covered in earlier editions such as phase diagrams phase transformations heat treatment of steels and nonferrous alloys shape memory alloys solidification fatigue fracture and corrosion as well as applications of engineering alloys A new chapter on Nanomaterials has been added Chapter 8 The field of nano materials is interdisciplinary in nature covering many disciplines including physical metallurgy Intended as a text for undergraduate courses in Metallurgical and Materials Engineering the book is also suitable for students preparing for associate membership examination of the Indian Institute of Metals AMIIM and other professional examinations like AMIE Trace Environmental Quantitative Analysis Paul R. Loconto, 2020-12-27 A thorough and timely update this new edition presents principles techniques and applications in this sub discipline of analytical chemistry for quantifying traces of potentially toxic organic and inorganic chemical substances found in air soil fish and water as well as serum plasma urine and other body fluids The author addresses regulatory aspects calibration verification and the statistical treatment of analytical data including instrument detection limits quality assurance quality control sampling and sample preparation and techniques that are used to quantify trace concentrations of organic and inorganic chemical substances Key Features Fundamental principles are introduced for the more significant experimental approaches to sample preparation Principles of instrumental analysis determinative techniques for trace organics and trace inorganics analysis An introduction to the statistical treatment of trace analytical data How to calculate instrument detection limits based on weighted least squares confidence band calibration statistics Includes an updated series of student tested experiments *Practice Book Chemistry For Jee Main and Advanced* 2022 Dr. RK Gupta, 2021-08-26 1 The current edition of New pattern JEE problem increases the comprehension 2 New pattern JEE problem Chemistry for JEE Main Inorganic Organic and Physical Chemistry 4 More than 8800 JEE level problem that include all types of objective questions 5 Last 5 Previous years solved Paper 2020 2016 6 Step by step explanations given to all the question for conceptual learning JEE Main Inorganic Organic and Physical Chemistry More than 8800 JEE level problem that include all types of objective questions Solutions in this book are presented in a step by step manner to make you learn how to strategize for a problem along with the ways to move tactically to get correct answer This book seeks to develop the capability of in appreciation of the inter play concepts in arriving at the correct answer fast in the students TOC Inorganic Chemistry Physical Chemistry Organic Chemistry **Problems in Physical Chemistry JEE Main and Advanced Volume 1** Dr. RK Gupta, 2021-04-05 1 The book is prepared for the problem solving in chemistry 2 It is divided into 8 chapters 3 Each chapter is topically divided into quick theory Immediate Test and Knowledge Confirmation Test 4 At the end of the each chapter cumulative exercises for JEE Main Advanced for practice 5 Acid Test for JEE Mains Advance

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Working Method Approach for Introductory Physical Chemistry Calculations Brian J Hathaway,Clair Murphy,Brian Murphy,2019-05-16 A Working Method Approach for Introductory Physical Chemistry Calculations is a concise inexpensive introduction to first year chemistry that is aimed at students who are weak in chemistry or have no chemistry on entry to university Such students usually find physical chemistry the most difficult part of the chemistry course and within this section numerical problem solving is an additional difficulty The text should also be invaluable to first year intending chemists This text provides an introduction to physical chemistry and the gas laws followed by chapters on thermodynamics chemical equilibrium electrochemistry and chemical kinetics Each section involves a brief introduction followed by a representative examination question which is broken down into a proposed working method Both short multiple choice questions and related full examination type questions are included This book will prove invaluable to students who need encouragement in a logical approach to problem solving in physical chemistry teaching them to think for themselves when faced with a problem

Ionic Equilibria in Analytical Chemistry Jean-Louis Burgot,2012-03-30 This book of general analytical chemistry as opposed to instrumental analysis or separation methods in aqueous solutions is focuses on fundamentals which is an area too often overlooked in the literature Explanations abound of the chemical and physical principles of different operations of chemical analysis in aqueous solutions Once these principle are firmly established numerous examples of applications are also given

Principles and Practice of Modern Chromatographic Methods Kevin Robards,P. E. Jackson,Paul A. Haddad,2012-12-02 Though many separation processes are available for use in todays analytical laboratory chromatographic methods are the most widely used The applications of chromatography have grown explosively in the last four decades owing to the development of new techniques and to the expanding need of scientists for better methods of separating complex mixtures With its comprehensive unified approach this book will greatly assist the novice in need of a reference to chromatographic techniques as well as the specialist suddenly faced with the need to switch from one technique to another

Soil and Environmental Chemistry William F.

Bleam,2016-11-30 Soil and Environmental Chemistry Second Edition presents key aspects of soil chemistry in environmental science including dose responses risk characterization and practical applications of calculations using spreadsheets The book offers a holistic practical approach to the application of environmental chemistry to soil science and is designed to equip the reader with the chemistry knowledge and problem solving skills necessary to validate and interpret data This updated edition features significantly revised chapters averaging almost a 50% revision overall including some reordering of chapters All new problem sets and solutions are found at the end of each chapter and linked to a companion site that reflects advances in the field including expanded coverage of such topics as sample collection soil moisture soil carbon cycle models water chemistry simulation alkalinity and redox reactions There is also additional pedagogy including key term and real world scenarios This book is a must have reference for researchers and practitioners in environmental and soil sciences as well as intermediate and advanced students in soil science and or environmental chemistry Includes additional pedagogy such as key terms and real world scenarios Supplemented by over 100 spreadsheets to migrate readers from calculator based to spreadsheet based problem solving that are directly linked from the text Includes example problems and solutions to enhance understanding Significantly revised chapters link to a companion site that reflects advances in the field including expanded coverage of such topics as sample collection soil moisture soil carbon cycle models water chemistry simulation alkalinity and redox reactions

Survival Guide to General Chemistry Patrick E. McMahon,Rosemary McMahon,Bohdan Khomtchouk,2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding Key Features The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields **Microbial Growth in Biofilms** Ronald J. Doyle,2001 This volume and its companion Volume 337 supplement Volume 310 These volumes provide a contemporary sourcebook for virtually any kind of experimental approach involving biofilms They cover bioengineering molecular genetic microscopic chemical and physical methods

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