

Acid-Base Equilibrium Homework Part II

Part A

- Calculate the pH and pOH of a solution containing 7.30 grams of HCl in 1.0 L of solution.

$$7.30 \text{ g} \times \frac{1 \text{ mol}}{36.46 \text{ g}} = 0.200 \text{ mol} / 1.0 \text{ L} = 0.20 \text{ M HCl}$$

Because HCl is a strong acid, it completely dissociates, so $[\text{HCl}] = [\text{H}_3\text{O}^+] = 0.20 \text{ M}$
 $\text{pH} = -\log[0.20] = 0.70$
 $\text{pOH} = 14 - \text{pH} = 13.30$
- Calculate the pH of a 0.10 M nitric acid (HNO_3) solution.

Because HNO_3 is a strong acid, the acid completely dissociates and the concentration of the acid is equal to the concentration of H^+ at equilibrium.
 $[\text{H}_3\text{O}^+] = 0.10 \text{ M}$
 $\text{pH} = -\log(0.10) = 1$
- Calculate the pH of a $5.0 \times 10^{-3} \text{ M}$ solution of sodium hydroxide.

Sodium hydroxide is a strong base, which means it completely dissociates, so $[\text{NaOH}] = [\text{OH}^-]$.
 $[\text{OH}^-] = 5.0 \times 10^{-3}$
 $\text{pOH} = -\log(5.0 \times 10^{-3}) = 1.3$
 $\text{pH} = 14 - 1.3 = 12.7 = 13 \text{ (2 sig figs)}$

Part B

- Decide whether the statements are true about strong acids, weak acids, both, or neither.
 - Always dissociates leaving behind at least some hydronium ion **both**
 - The initial concentration of the acid is equivalent to the final concentration of hydronium ions **strong only**
 - The pH is easily calculated **strong only**
 - The pH must be calculated by the ICE method **weak only**
 - The acid completely dissociates in water **strong only**
 - The equilibrium concentration of undissociated acid is approximately 0 **strong only**
 - K_a is very small **weak only**
- Write the K_a expression for the following acids:
 - $\text{HC}_2\text{H}_3\text{O}_2$

$$\text{HC}_2\text{H}_3\text{O}_2 (\text{aq}) + \text{H}_2\text{O}(\text{l}) \leftrightarrow \text{C}_2\text{H}_3\text{O}_2^- (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$$

$$K_a = \frac{[\text{C}_2\text{H}_3\text{O}_2^-][\text{H}_3\text{O}^+]}{[\text{HC}_2\text{H}_3\text{O}_2]}$$
 - H_2CO_3

$$\text{H}_2\text{CO}_3 (\text{aq}) + \text{H}_2\text{O}(\text{l}) \leftrightarrow \text{HCO}_3^- (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$$

$$K_a = \frac{[\text{HCO}_3^-][\text{H}_3\text{O}^+]}{[\text{H}_2\text{CO}_3]}$$

Acid Base Homework Answers

Michael B. Smith



Acid Base Homework Answers:

Homework Helpers: Chemistry Greg Curran, 2025-09-12 *Homework Helpers Chemistry* is a user friendly review book that will make every student or parent trying to help their child feel like he or she has a private Chemistry tutor Concepts are explained in clear easy to understand language and problems are worked out with step by step methods that are easy to follow Each lesson comes with numerous review questions and answer keynotes that explain each correct answer and why it is correct This book covers all of the topics in a typical one year Chemistry curriculum including A systematic approach to problem solving conversions and the use of units Naming compounds writing formulas and balancing chemical equations Gas laws chemical kinetics acids and bases electrochemistry and more While *Homework Helpers Chemistry* is an excellent review for any standardized Chemistry test including the SAT II its real value is in providing support and guidance during the year's entire course of study

Organic Chemistry Michael B. Smith, 2011-06-29 Based on the premise that many if not most reactions in organic chemistry can be explained by variations of fundamental acid base concepts *Organic Chemistry An Acid Base Approach* provides a framework for understanding the subject that goes beyond mere memorization The individual steps in many important mechanisms rely on acid base reactions and the ability to see these relationships makes understanding organic chemistry easier Using several techniques to develop a relational understanding this textbook helps students fully grasp the essential concepts at the root of organic chemistry Providing a practical learning experience with numerous opportunities for self testing the book contains Checklists of what students need to know before they begin to study a topic Checklists of concepts to be fully understood before moving to the next subject area Homework problems directly tied to each concept at the end of each chapter Embedded problems with answers throughout the material Experimental details and mechanisms for key reactions The reactions and mechanisms contained in the book describe the most fundamental concepts that are used in industry biological chemistry and biochemistry molecular biology and pharmacy The concepts presented constitute the fundamental basis of life processes making them critical to the study of medicine Reflecting this emphasis most chapters end with a brief section that describes biological applications for each concept This text provides students with the skills to proceed to the next level of study offering a fundamental understanding of acids and bases applied to organic transformations and organic molecules

Basic Chemistry Concepts and Exercises John Kenkel, 2011-07-08 Chemistry can be a daunting subject for the uninitiated and all too often introductory textbooks do little to make students feel at ease with the complex subject matter *Basic Chemistry Concepts and Exercises* brings the wisdom of John Kenkel's more than 35 years of teaching experience to communicate the fundamentals of chemistry in a practical down to earth manner Using conversational language and logically assembled graphics the book concisely introduces each topic without overwhelming students with unnecessary detail Example problems and end of chapter questions emphasize repetition of concepts preparing students to become adept at the basics before they progress to an advanced general

chemistry course Enhanced with visualization techniques such as the first chapter s mythical microscope the book clarifies challenging abstract ideas and stimulates curiosity into what can otherwise be an overwhelming topic Topics discussed in this reader friendly text include Properties and structure of matter Atoms molecules and compounds The Periodic Table Atomic weight formula weights and moles Gases and solutions Chemical equilibrium Acids bases and pH Organic chemicals The appendix contains answers to the homework exercises so students can check their work and receive instant feedback as to whether they have adequately grasped the concepts before moving on to the next section Designed to help students embrace chemistry not with trepidation but with confidence this solid preparatory text forms a firm foundation for more advanced chemistry training

Step By Step Interpretation of Arterial Blood Gas for Student Nurses: Peters Orinate Onia, It has been observed that most student nurses had difficulty solving mathematical analysis or tasks especially laboratory findings involving such Arterial blood gas is one of the topics that student nurses find difficult to understand hence the compilation of this text book for easy understanding of the topic The nursing and midwifery councils worldwide in it test and examination have always featured this topic to boost student knowledge in this area of the scheme of work and curriculum

Foundations of College Chemistry Morris Hein,Susan Arena,2013-01-01 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years Foundations of College Chemistry Alternate 14th Edition has helped readers master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis

First Year Chemistry Students' Conceptions of Acid/base Chemistry Sally Diane Rupert,2001

Organic Chemistry T. W. Graham Solomons,Craig B. Fryhle,Scott A. Snyder,2022-01-19 Organic Chemistry 13th Edition continues Solomons Fryle and Snyder s tradition of excellence in teaching and preparing students for success in both the classroom and beyond Central to the authors is their approach in emphasizing organic chemistry s relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us

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 Chemistry** Stephen DeMeo, 2019-03-01 This text is a chemistry problem solving resource appropriate for teachers and their
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The Vitamin D Cure, Revised James Dowd, MD, Diane Stafford, 2012-05-16 Now updated with the latest research the breakthrough way to lose weight stop pain and prevent disease Completely updated with the latest research The Vitamin D Cure tells you all you need to know about this miraculous natural substance today's best way to heal pain prevent disease and improve your mood We now know that adding vitamin D to your daily regimen can net you unbelievable benefits from reducing your chances of having certain kinds of cancer to gaining flexibility and youthful exuberance well into your seventies and beyond And no a dose of daily sunshine doesn't give you enough Groundbreaking research reveals the healing power of this simple readily available supplement Physicians researchers and vitamin D users point to mounting evidence that the simple act of increasing the amount of vitamin D in your body can cure or help treat a remarkable number of diseases and ailments including unwanted pounds high blood pressure back pain muscle cramps obesity cancer and diabetes Leading rheumatologist and researcher Dr James Dowd reveals the causes of vitamin D deficiency and offers a simple five step program that can prevent or alleviate a host of health troubles in a matter of weeks Incorporating the latest diet and lifestyle advice the program helps you harness the power of the sunshine vitamin to transform your life Whether you struggle with arthritis or chronic pain from an old injury or you simply want to lose weight and get back to a body image that reflects your best self The Vitamin D Cure can be your key to a better more vibrant you All new recipes and meal plans Up to date information on how vitamin D helps prevent disease and reduce pain New diet and supplement breakthroughs New information from scientific studies a wealth of clinical data and case stories

Spotlight Science Keith Johnson, Sue Adamson, Gareth Williams, 2002 This Spiral Edition Teacher Support Pack offers comprehensive support and guidance providing the best possible learning experience for your students and saving time for everyone in the department

Own the Boards Cyrus Peikari, 2007 Designed for rapid reading this book is a condensed targeted high yield review for the American Board of Internal Medicine certification and recertification exams Content is derived primarily from interviewing hundreds of physicians who have recently taken their exams and from Dr Peikari's successful Own the Boards course for candidates By covering questions that candidates often miss such as probability

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Chapter Resource 42 Hormones/Endocrine Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

Handbook of Adolescent Literacy Research Leila Christenbury, Randy Bomer, Peter Smagorinsky, 2011-06-10 The first comprehensive research handbook of its kind this volume showcases innovative approaches to understanding adolescent literacy learning in a variety of settings Distinguished contributors examine how well adolescents are served by current instructional practices and highlight ways to translate research findings more effectively into sound teaching and policymaking The book explores social and cultural factors in adolescents approach to communication and response to instruction and sections address literacy both in and out of schools including literacy expectations in the contemporary workplace Detailed attention is given to issues of diversity and individual differences among learners Winner Literacy Research Association's Fry Book Award

Chemistry Homework Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry problems and more *Lecture Notes, Worksheets, and Exercises for Basic Anatomy and Physiology* Martin Caon, 2024-04-29 This volume contains twenty six lectures on basic anatomy and physiology for first year university students Topics included are standard for anatomy and physiology courses including cells and tissues a brief review of chemistry thermoregulation and homeostasis the musculo skeletal system structure and function of blood vessels respiration the reproductive system and more Also included are sixteen worksheets with homework exercises that complement the lectures Suggested answers to all the worksheets are also included at the end of the book This is an ideal book for professors teaching basic anatomy and physiology courses as well as researchers students and professionals looking to brush up on the subject The book complements the already published Martin Caon 2020 Examination Questions and Answers in Basic Anatomy and physiology 2900 Multiple Choice Questions and 64 Essay Topics 3rd Ed Springer ISBN 978 3 030 47313 6

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