

## AP Chemistry Chapter 14 Answers – Zumdahl

### 14.27

a.  
 $\text{HClO}_4(\text{aq}) + \text{H}_2\text{O}(\text{l}) \rightarrow \text{H}_3\text{O}^+(\text{aq}) + \text{ClO}_4^-(\text{aq})$ . Only the forward reaction is indicated since  $\text{HClO}_4$  is a strong acid and is basically 100% dissociated in water. For acids, the dissociation reaction is commonly written without water as a reactant. The common abbreviation for this reaction is:  $\text{HClO}_4(\text{aq}) \rightarrow \text{H}^+(\text{aq}) + \text{ClO}_4^-(\text{aq})$ . This reaction is also called the  $K_a$  reaction as the equilibrium constant for the reaction is called  $K_a$ .

b.  
 Propanoic acid is a weak acid, so it is only partially dissociated in water. The dissociation reaction is:  $\text{CH}_3\text{CH}_2\text{CO}_2\text{H}(\text{aq}) + \text{H}_2\text{O}(\text{l}) \rightleftharpoons \text{H}_3\text{O}^+ + \text{CH}_3\text{CH}_2\text{CO}_2^-(\text{aq})$  or  $\text{CH}_3\text{CH}_2\text{CO}_2\text{H}(\text{aq}) \rightleftharpoons \text{H}^+(\text{aq}) + \text{CH}_3\text{CH}_2\text{CO}_2^-(\text{aq})$ .

c.  
 $\text{NH}_4^+$  is a weak acid. Similar to propanoic acid, the dissociation reaction is:



### 14.29

An acid is a proton ( $\text{H}^+$ ) donor and a base is a proton acceptor. A conjugate acid-base pair differs by only a proton ( $\text{H}^+$ ).

	Acid	Base	Conjugate Base of Acid	Conjugate Acid of Base
a.	$\text{H}_2\text{CO}_3$	$\text{H}_2\text{O}$	$\text{HCO}_3^-$	$\text{H}_3\text{O}^+$
b.	$\text{C}_5\text{H}_5\text{NH}^+$	$\text{H}_2\text{O}$	$\text{C}_5\text{H}_5\text{N}$	$\text{H}_3\text{O}^+$
c.	$\text{C}_6\text{H}_5\text{NH}^+$	$\text{HCO}_3^-$	$\text{C}_6\text{H}_5\text{N}$	$\text{H}_2\text{CO}_3$

### 14.31

Strong acids have a  $K_a \gg 1$  and weak acids have  $K_a < 1$ . Table 14.2 in the text lists some  $K_a$  values for weak acids.  $K_a$  values for strong acids are hard to determine so they are not listed in the text. However, there are only a few common strong acids so if you memorize the strong acids, then all other acids will be weak acids. The strong acids to memorize are  $\text{HCl}$ ,  $\text{HBr}$ ,  $\text{HI}$ ,  $\text{HNO}_3$ ,  $\text{HClO}_4$ , and  $\text{H}_2\text{SO}_4$ .

- $\text{HClO}_4$  is a strong acid.
- $\text{HOCl}$  is a weak acid ( $K_a = 3.5 \times 10^{-8}$ ).
- $\text{H}_2\text{SO}_4$  is a strong acid.
- $\text{H}_2\text{SO}_3$  is a weak diprotic acid with  $K_{a1}$  and  $K_{a2}$  values less than one.

### 14.33

The  $K_a$  value is directly related to acid strength. As  $K_a$  increases, acid strength increases. For water, use  $K_w$  when comparing the acid strength of water to other species. The  $K_a$  values are:



# Modern Chemistry Answer Key Chapter 15

**John L. Kice**



## **Modern Chemistry Answer Key Chapter 15:**

Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001      *Modern Physical Chemistry* G.H. Duffey, 2013-11-11 In this new textbook on physical chemistry fundamentals are introduced simply yet in more depth than is common Topics are arranged in a progressive pattern with simpler theory early and more complicated theory later General principles are induced from key experimental results Some mathematical background is supplied where it would be helpful Each chapter includes worked out examples and numerous references Extensive problems review and discussion questions are included for each chapter More detail than is common is devoted to the nature of work and heat and how they differ Introductory Caratheodory theory and the standard integrating factor for  $dG_{rev}$  are carefully developed The fundamental role played by uncertainty and symmetry in quantum mechanics is emphasized In chemical kinetics various methods for determined rate laws are presented The key mechanisms are detailed Considerable statistical mechanics and reaction rate theory are then surveyed Professor Duffey has given us a most readable easily followed text in physical chemistry

**Modern Chemistry** Raymond E. Davis, 1999 2000 2005 State Textbook Adoption Rowan Salisbury      Modern Tools for the Synthesis of Complex Bioactive Molecules Janine Cossy, Stellos Arseniyadis, 2012-10-09 All the latest tools needed to plan and perform the synthesis of complex bioactive molecules Focusing on organic organometallic and bio oriented processes this book explores the impact and use of the latest synthetic tools for the synthesis of complex biologically active compounds Readers will discover step by step how these synthetic tools have provided new elegant solutions to many synthetic puzzles Moreover they will discover innovative methods that make it possible to control the exact connectivity of atoms within a molecule in order to set precise three dimensional arrangements Modern Tools for the Synthesis of Complex Bioactive Molecules features sixteen chapters each one written by one or more leading experts in organic synthesis from around the world It covers a broad range of topics that enable readers to take advantage of the latest methods for synthesizing complex molecules including Modern catalysis emphasizing key transformations such as C H functionalizations cross couplings gold catalyzed reactions metathesis based syntheses and asymmetric organocatalysis Eco compatible transformations including rearrangements and domino reactions Tools for the synthesis of carbohydrates and alkaloids New techniques including the use of fluorine tags and engineered biosynthesis The last two chapters explore target and diversity oriented organic synthesis as well as the use of DNA based asymmetric catalysis which are all promising tools for the successful synthesis of complex bioactive molecules Modern Tools for the Synthesis of Complex Bioactive Molecules is ideal for students and researchers who need to plan and perform the synthesis of complex molecules as efficiently as possible The book's expert advice will help these readers quickly resolve a broad range of problems that can arise in organic syntheses      *Principles of Modern Chemistry* David W. Oxtoby, H. Pat Gillis, Laurie J. Butler, 2016-01-01 Long considered the standard for honors and high level mainstream general chemistry courses PRINCIPLES OF MODERN CHEMISTRY continues to set the standard as

the most modern rigorous and chemically and mathematically accurate text on the market This authoritative text features an atoms first approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure Chapter 6 Electrochemistry Chapter 17 and Molecular Spectroscopy and Photochemistry Chapter 20 In addition the text utilizes mathematically accurate and artistic atomic and molecular orbital art and is student friendly without compromising its rigor End of chapter study aids focus on only the most important key objectives equations and concepts making it easier for students to locate chapter content while applications to a wide range of disciplines such as biology chemical engineering biochemistry and medicine deepen students understanding of the relevance of chemistry beyond the classroom

**Modern University Chemistry, Custom Pub** Norbert T. Porile,1993 *Instructor's Manual to Accompany Chemistry in the Modern World, Concepts and Applications* Frank L. Wiseman,1985 *Solution Key for Modern Introductory Analysis* Mary P. Dolciani,1964 Modern Electrochemistry 2B John O'M. Bockris,Amulya K.N. Reddy,2007-05-08 This book had its nucleus in some lectures given by one of us J O M B in a course on electrochemistry to students of energy conversion at the University of Pennsylv nia It was there that he met a number of people trained in chemistry physics biology metallurgy and materials science all of whom wanted to know something about electrochemistry The concept of writing a book about electrochemistry which could be understood by people with very varied backgrounds was thereby engendered The lectures were recorded and written up by Dr Klaus Muller as a 293 page manuscript At a later stage A K N R joined the effort it was decided to make a fresh start and to write a much more comprehensive text Of methods for direct energy conversion the electrochemical one is the most advanced and seems the most likely to become of considerable practical importance Thus conversion to electrochemically powered transportation systems appears to be an important step by means of which the difficulties of air pollution and the effects of an increasing concentration in the atmosphere of carbon dioxide may be met Cor sion is recognized as having an electrochemical basis The synthesis of nylon now contains an important electrochemical stage Some central biological mechanisms have been shown to take place by means of electrochemical reactions A number of American organizations have recently recommended greatly increased activity in training and research in electrochemistry at universities in the United States

**Answers to Problems, Modern Principles of Organic Chemistry, an Introduction, Second Edition** John L. Kice,1974 **Student's Guide to Chemistry; a Modern Introduction** David Brooks,1974

**Basic Concepts of Chemistry** Leo J. Malone,Theodore O. Dolter,2012-04-13 Basic Concepts of Chemistry was originally written over thirty years ago to address the needs of general chemistry students with little or no background in chemistry Over time the text has evolved beyond purposes solely aimed at a preparatory chemistry course For some preparatory chemistry students a main sequence in general chemistry may follow but for others a semester of organic and biochemistry may follow Other students enroll to simply satisfy a basic science or chemistry requirement The text was written with a level and functionality designed to accommodate the needs of each of these varied groups of students Basic Concepts of Chemistry

was designed with a flexibility that allows instructors to emphasize or omit certain clearly delineated sections The mission of the text has evolved in response to the increased diversity of students and the emphasis on outcomes assessment

**CHEMISTRY** SILBERBERG,2003      Modern Mathematics and Mechanics Victor A. Sadovnichiy,Michael Z. Zgurovsky,2018-11-29 In this book international expert authors provide solutions for modern fundamental problems including the complexity of computing of critical points for set valued mappings the behaviour of solutions of ordinary differential equations partial differential equations and difference equations or the development of an abstract theory of global attractors for multi valued impulsive dynamical systems These abstract mathematical approaches are applied to problem solving in solid mechanics hydro and aerodynamics optimization decision making theory and control theory This volume is therefore relevant to mathematicians as well as engineers working at the interface of these fields      **Supplement for Modern Organic Chemistry** John D. Roberts,Marjorie C. Caserio,1967      **Student's Guide to Chemistry** David W. Brooks,Thomas J. Tipton,1978      **Chemistry in the Modern World** Frank L. Wiseman,1985      *Chemistry* Leonard W. Fine,1972      **The International Operating Engineer** ,1915      **The Power Plant ...** ,1915

## **Modern Chemistry Answer Key Chapter 15** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Modern Chemistry Answer Key Chapter 15**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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