

Acids and Bases Worksheet 2

1. In the reaction: $\text{CO}_3^{2-} + \text{H}_2\text{O} \rightleftharpoons \text{HCO}_3^- + \text{OH}^-$
the carbonate ion is acting as a(n):
(A) Arrhenius base
(B) Arrhenius acid
(C) Bronsted-Lowry base
(D) Bronsted-Lowry acid
2. Which of the following represents a Bronsted-Lowry conjugate acid-base pair?
(A) SO_3^{2-} and SO_2 (B) CO_3^{2-} and CO (C) H_3O^+ and H_2 (D) NH_4^+ and NH_3
3. Which of the following would not make a good buffering system?
(A) SO_4^{2-} and H_2SO_4
(B) HCO_3^- and H_2CO_3
(C) NH_3 and NH_4^+
(D) CH_3COO^- and CH_3COOH
4. A water solution of which of the following compounds will turn blue litmus red
(A) K_2CO_3 (B) NH_4Cl (C) NaOH (D) NaCl
5. 10.0 ml of a solution of HCl required 12.5 ml of 0.400 M $\text{Ba}(\text{OH})_2$ for complete neutralization. How many moles of HCl were present in the sample?
(A) 5.00×10^{-3} (B) 1.00×10^{-2} (C) 1.00 (D) 2.00
6. If 1.00 L of 1.00 M CH_3COOH is mixed with 0.25 mole of solid NaOH (assume no volume change), what will be the pH of the resulting solution? ($K_a = 1.8 \times 10^{-5}$).
(A) 4.14 (B) 4.27 (C) 4.74 (D) 5.35
7. What is the molarity of CH_3COOH in vinegar containing 4.0% CH_3COOH by mass and having a density of 1.02 g/ml?
(A) 0.50 M (B) 0.68 M (C) 0.75 M (D) 1.36 M
8. If 5.00 ml of 15.4 M HNO_3 is diluted to 250 ml, what is the pH of the resulting solution?
(A) 0.51 (B) 0.76 (C) 1.45 (D) 2.89

20 1 Answers Acids And Bases

Akash Tiwari



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Physical Chemistry for Engineering and Applied Sciences Frank R. Foulkes, 2012-09-12 Physical Chemistry for Engineering and Applied Sciences is the product of over 30 years of teaching first year Physical Chemistry as part of the Faculty of Applied Science and Engineering at the University of Toronto Designed to be as rigorous as compatible with a first year student's ability to understand the text presents detailed step by step derivations of the equations that permit the student to follow the underlying logic and of equal importance to appreciate any simplifying assumptions made or mathematical tricks employed In addition to the 600 exercises and end of chapter problems the text is rich in worked non trivial examples many of which are designed to be inspiring and thought provoking Step by step derivation of all equations enables the student to smoothly follow the derivation by sight and can be understood relatively easily by students with moderate skills and backgrounds in mathematics Clear and accessible Physical Chemistry for Engineering and Applied Sciences includes The answers to all of the 112 worked examples 99 exercises following many of the worked examples and 496 end of chapter problems Topics not normally seen in introductory physical chemistry textbooks ionic reaction rates activities and activity coefficients or not regularly explained in much detail electrochemistry chemical kinetics with an eye on industrial applications Special appendices that provide detailed explanations of basic integration and natural logarithms for students lacking a background in integral calculus An in depth chapter on electrochemistry in which activities and activity coefficients are used extensively as required for accurate calculations

General Chemistry Donald A. McQuarrie, Stanley Gill, 2011-06-15 This Fourth Edition of McQuarrie's classic text offers a thorough revision and a quantum leap forward from the previous edition Taking an atoms first approach it promises to be another ground breaking text in the tradition of McQuarrie's many previous works This outstanding new text available in a soft cover edition offers professors a fresh choice and outstanding value

Textbook of Medical Biochemistry - E-Book Dinesh Puri, 2022-11-18 The fifth edition of this book is thoroughly revised and updated as per guidelines of NMC in accordance with the competency based curriculum of Biochemistry It focuses primarily on clarity of the fundamental concepts with a logical sequence of events that aids learning The organization of content in this profusely illustrated book provides the essential knowledge of biochemistry without extraneous details Authentic resource material for undergraduate medical students NEXT USMLE PLAB etc New to this Edition Addition of new chapter on Processing and Targeting of Proteins Systematically modified chapters on Cancer Recombinant DNA Technology and Genetic Engineering Molecular Biology Eukaryotic Gene Expression Immunology Organ Function Tests Carbohydrates and Lipid Metabolism and Energy Metabolism and Nutrition to cater to various competencies recommended by new curriculum Inclusion of clinical boxes in each chapter highlighting horizontal and vertical integration of topics to foster solid understanding Enriched text with additional new line diagrams clinical photographs tables and boxes for easy understanding and reproducibility Multiple choice questions have been given chapterwise to evaluate the level of

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Medical Surgical Nursing, Microbiology - 2024 Akash Tiwari,2024-01-01 **Cumulated Index Medicus** ,1980 *Acid-base Disorders* R. N. Walmsley,Evelyn S. C. Koay,L. R. Watkinson,1989 This book provides an integrated approach to the management of acid base disorders covering the biochemical physiological analytical and clinical aspects The clearly written concise text gives a comprehensive coverage of the subject supported by a wealth of information including underlying basic scientific principles

and appropriate medical diagnoses and treatment The authors have used a practical clinical approach to the problems throughout emphasising points of relevance and interest with illustrative case examples The book should appeal to clinicians emergency room staff biochemists laboratory technologists medical and science students

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