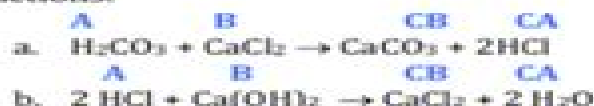


Chapter 19 Study Guide: Acids, Bases & Titration – Answers

1. Differentiate between Arrhenius, Brønsted-Lowry & Lewis acids and bases.

	ACIDS	BASES
Arrhenius	Form hydronium ions (H_3O^+) in aqueous sol'n	Form hydroxide ions (OH^-) in aqueous sol'n
Brønsted-Lowry	Proton (H^+) donors	Proton (H^+) acceptors
Lewis	Electron pair acceptors	Electron pair donors

2. Label the acid (A), base (B), conjugate acid (CA) and conjugate base (CB) in each of the following reactions:



3. Write the names or formulas for the following acids and bases:

- a. H_2S – hydrosulfuric acid
 b. $\text{HC}_2\text{H}_3\text{O}_2$ – acetic acid
 c. NaOH – sodium hydroxide
 d. HNO_3 – nitric acid
 e. Nitrous acid – HNO_2
 f. Calcium hydroxide – $\text{Ca}(\text{OH})_2$
 g. hydrochloric acid – HCl

Use the following formulas for the remaining questions: (these will not be given to you on the test!)

$$K_w = [\text{H}_3\text{O}^+][\text{OH}^-] = 1.0 \times 10^{-14}$$

$$\text{pH} = -\log[\text{H}_3\text{O}^+]$$

$$\text{pOH} = -\log[\text{OH}^-]$$

$$\text{pH} + \text{pOH} = 14$$

$$M_A \cdot V_A \cdot n_A = M_B \cdot V_B \cdot n_B$$

4. What is the pH of
- 1.34×10^{-4}
- M solution of hydrochloric acid?

$$\text{pH} = -\log [1.34 \times 10^{-4}\text{M}] = 3.873$$

5. Determine the pH and pOH of a
- 1.85×10^{-6}
- M NaOH solution.

$$\text{pOH} = -\log [1.85 \times 10^{-6}\text{M}] = 5.733$$

$$\text{pH} = 14 - 5.73 = 8.267$$

6. What is the
- $[\text{OH}^-]$
- of an aqueous solution that has a pH of 5.0?

$$\text{pOH} = 9 \quad [\text{OH}^-] = 1 \times 10^{-9} \text{ M}$$

7. What is the pH and the pOH of a solution with a volume of 2000. mL containing 35 grams of NaOH? Is this solution acidic or basic?

$$\frac{35\text{gNaOH}}{2.000\text{L}} \times \frac{1\text{molNaOH}}{40.00\text{gNaOH}} = 0.44\text{M NaOH}$$

$$\text{pOH} = -\log[0.44\text{M}] = 0.36 \quad \text{pH} = 14 - 0.36 = 13.64 \quad \text{basic}$$

Acids And Bases Guide Answers

M Carnoy



Acids And Bases Guide Answers:

Fluid, Electrolyte, and Acid-Base Imbalances Allison Hale, Mary Jo Hovey, 2013-10-29 Here s all of the crucial coverage you need to succeed in class and confidently prepare for your classroom exams and the NCLEX Easy to follow outlines focus on the information essential to make this challenging subject more manageable Study Guide with Selected Solutions Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems **Introductory Chemistry** Steven S. Zumdahl, 1996 *Basic Chemistry* Steven S. Zumdahl, 2004 Description Not Yet Available Biochemistry and Genetics PreTest™ Self-Assessment and Review, Third Edition Golder N. Wilson, 2007-03-22 This one of a kind test prep guide helps you to test your knowledge of essential biochemistry and genetics concepts for the USMLE Step 1 practice with 500 USMLE Step 1 style questions with referenced answers review explanations for right and wrong answers and build confidence skills and knowledge *Chemistry* Steven S. Zumdahl, 1989 Acids, Bases and Salts MCQ (Multiple Choice Questions) Arshad Iqbal, 2020 The Acids Bases and Salts Multiple Choice Questions MCQ Quiz with Answers PDF Acids Bases and Salts MCQ PDF Download Quiz Questions Practice Tests with Answer Key Class 10 Chemistry Questions Bank MCQs Notes includes revision guide for problem solving with solved MCQs Acids Bases and Salts MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Acids Bases and Salts MCQ PDF book helps to practice test questions from exam prep notes The Acids Bases and Salts MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Acids Bases and Salts Multiple Choice Questions and Answers MCQs PDF Free download sample a book to practice quiz questions and answers on 10th grade chemistry topics What is acid base and salt acids and bases pH measurements self ionization of water pH scale Bronsted concept of acids and bases pH scale and salts tests for high school students and beginners Acids Bases and Salts Quiz Questions and Answers PDF free download eBook s sample covers exam s viva interview questions and competitive exam preparation with answer key The book Acids Bases and Salts MCQs PDF includes high school question papers to review practice tests for exams Acids Bases and Salts Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for competitive exam Acids Bases and Salts Mock Tests eBook covers problem solving exam tests from high school chemistry textbooks Shipman Phys Sci 6e Study Guide James T. Shipman, Jerry D. Wilson, 1990 **Chemistry, Study Guide** Bernice G. Segal, Peter S. Shenkin, 1989-02-14 This Second Edition of the first year chemistry text known for its clarity of exposition and its large number of illustrative worked problems contains a more rigorous treatment of electrochemistry chemical equilibrium and thermochemistry Worked examples now number over 300 and exercises over 1460 **Chemical Interactions**, 2005 General Chemistry, Study Guide James E. Brady, 1990-03-01 The Fifth Edition retains the pedagogical strengths that made the previous editions so

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Thompson Briscoe,1936 **Study Guide & Solutions Manual to Accompany Organic Chemistry** Mary H. Bailey,1998

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