

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?

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

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

Chemistry Acids And Bases Answers Study Guide

Kenneth W. Raymond



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1. Understanding the eBook Chemistry Acids And Bases Answers Study Guide
 - The Rise of Digital Reading Chemistry Acids And Bases Answers Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Acids And Bases Answers Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemistry Acids And Bases Answers Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Acids And Bases Answers Study Guide
 - Personalized Recommendations
 - Chemistry Acids And Bases Answers Study Guide User Reviews and Ratings
 - Chemistry Acids And Bases Answers Study Guide and Bestseller Lists
5. Accessing Chemistry Acids And Bases Answers Study Guide Free and Paid eBooks

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 - Chemistry Acids And Bases Answers Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Acids And Bases Answers Study Guide
 - Highlighting and Note-Taking Chemistry Acids And Bases Answers Study Guide
 - Interactive Elements Chemistry Acids And Bases Answers Study Guide
 8. Staying Engaged with Chemistry Acids And Bases Answers Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Acids And Bases Answers Study Guide
 9. Balancing eBooks and Physical Books Chemistry Acids And Bases Answers Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Acids And Bases Answers Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chemistry Acids And Bases Answers Study Guide
 - Setting Reading Goals Chemistry Acids And Bases Answers Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chemistry Acids And Bases Answers Study Guide
 - Fact-Checking eBook Content of Chemistry Acids And Bases Answers Study Guide
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
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samantha p park she is also to be able to have a look at any records which may be attached to the birth certificate at hand

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due to a medical emergency that requires my immediate attention i am unable to claim the birth certificate in person and i
request that jane be allowed to do so

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document of someone else indicate in the requesting party field how to are related to the documentation owner whom you
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savings bank account no said the a c number and i hereby permit say the name of the person you wish to approve to act on
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to whom it may concern i hereby authorize authorized person s name to collect the psa issued birth certificate that was

issued on issued date on my behalf

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