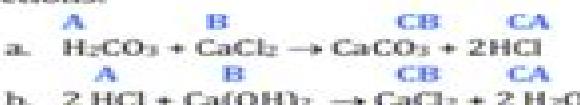


Chapter 19 Study Guide: Acids, Bases & Titration – Answers

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

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

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

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

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

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

$$\text{M}_\text{A}\text{-Va}^- \text{M}_\text{B} = \text{M}_\text{B}\text{-V}_\text{a}^- \text{M}_\text{A}$$

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

Golder N. Wilson

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1. Understanding the eBook Acids And Bases Guide Answers
 - The Rise of Digital Reading Acids And Bases Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Acids And Bases Guide Answers
 - 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 Acids And Bases Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Acids And Bases Guide Answers

- Personalized Recommendations
- Acids And Bases Guide Answers User Reviews and Ratings
- Acids And Bases Guide Answers and Bestseller Lists

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- Acids And Bases Guide Answers Budget-Friendly Options

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- ePUB, PDF, MOBI, and More
- Acids And Bases Guide Answers Compatibility with Devices
- Acids And Bases Guide Answers Enhanced eBook Features

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- Highlighting and Note-Taking Acids And Bases Guide Answers
- Interactive Elements Acids And Bases Guide Answers

8. Staying Engaged with Acids And Bases Guide Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Acids And Bases Guide Answers

9. Balancing eBooks and Physical Books Acids And Bases Guide Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Acids And Bases Guide Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Acids And Bases Guide Answers

- Setting Reading Goals Acids And Bases Guide Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Acids And Bases Guide Answers

- Fact-Checking eBook Content of Acids And Bases Guide Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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