

Acids & Bases HOMEWORK

Homework

1. Propose the correct ion search of the strong acid listed below. Propose the incorrect ion search of the strong base listed below.

- a. **HF**: **Hydrogen fluoride**
- b. **HI**: **Hydrogen iodide**
- c. **HNO₃**: **nitric acid**
- d. **HClO₄**: **perchloric acid**
- e. **HBrO₃**: **hypobromous acid**
- f. **HClO₄**: **chloric acid**
- g. **H₂SO₄**: **hydrochloric acid**
- h. **H₂SO₄**: **hydrobromic acid**
- i. **H₂SO₄**: **hydroiodic acid**
- j. **H₂SO₄**: **hydrochloric acid**
- k. **H₂SO₄**: **hydrobromic acid**
- l. **H₂SO₄**: **hydroiodic acid**

2. Off the acids and bases listed below, write the ones that completely dissociate in water.

Acid	Base	Mixture	Neutral	Acidic	Basic	Neutral	Basic
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3. Write the dissociation for **H₂SO₄**.

4. **HClO₄** will react with water and lose a H^+ ion in the process.

a. Write a balanced equation for this reaction: $\text{HClO}_4 + \text{H}_2\text{O} \longrightarrow \text{H}_3\text{O}^+ + \text{ClO}_4^-$

b. Write a pH response to longer on **small** equilibrium constants for this reaction? **small** because HClO_4 is a strong acid.

c. Dissolve **CaCl₂** in a portion of water and a portion of vinegar? **common** because it is strong at $\text{pH} \approx 7$.

d. In your **strong** response, is **HClO₄** acting as a **Brønsted-Lowry** acid or a **Bentley-Lowry** acid? **strong** because it is a strong acid.

e. Identify the conjugate base of **HClO₄**: **ClO₄⁻**

f. Identify **HClO₄** as **strong**, **weak**, **intermediate**, or **none**: **strong**, because it is strong according to the **Brønsted**.

5. **H₂SO₄** will react with water and lose a H^+ ion in the process.

a. Write a balanced equation for this reaction: $\text{H}_2\text{SO}_4 + \text{H}_2\text{O} \longrightarrow \text{H}_3\text{O}^+ + \text{SO}_4^{2-}$

b. Write a pH response to longer on **small** equilibrium constants for this reaction? **small** because it is a strong acid.

c. Dissolve **CaCl₂** in a portion of water and a portion of vinegar? **common** because it is strong at $\text{pH} \approx 7$.

d. In your **strong** response, is **H₂SO₄** acting as a **Brønsted-Lowry** acid or a **Bentley-Lowry** acid? **strong** because it is a strong acid.

e. Identify the conjugate base of **H₂SO₄**: **SO₄²⁻**

f. Identify **H₂SO₄** as **strong**, **weak**, **intermediate**, or **none**: **strong**

6. **HClO₄** will react with water and lose a H^+ ion in the process.

a. Write a balanced equation for this reaction: $\text{HClO}_4 + \text{H}_2\text{O} \longrightarrow \text{H}_3\text{O}^+ + \text{ClO}_4^-$

b. Write a pH response to longer on **small** equilibrium constants for this reaction? **small** because **HClO₄** is a strong acid.

c. Dissolve **CaCl₂** in a portion of water and a portion of vinegar? **common** because it is strong at $\text{pH} \approx 7$.

d. In your **strong** response, is **HClO₄** acting as a **Brønsted-Lowry** acid or a **Bentley-Lowry** acid? **strong** because it is a strong acid.

e. Identify the conjugate base of **HClO₄**: **ClO₄⁻**

f. Identify **HClO₄** as **strong**, **weak**, **intermediate**, or **none**: **strong**, because it is strong according to the **Brønsted** and **Bentley**.

19 3 Acids And Bases Answer Key Chemistry

IM Harris

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Index Medicus ,1993 Chemical News and Journal of Physical Science ,1873 *Journal of the Chemical Society* ,1881
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Table of Contents 19 3 Acids And Bases Answer Key Chemistry

1. Understanding the eBook 19 3 Acids And Bases Answer Key Chemistry
 - The Rise of Digital Reading 19 3 Acids And Bases Answer Key Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying 19 3 Acids And Bases Answer Key Chemistry
 - 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 19 3 Acids And Bases Answer Key Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from 19 3 Acids And Bases Answer Key Chemistry
 - Personalized Recommendations
 - 19 3 Acids And Bases Answer Key Chemistry User Reviews and Ratings

- 19 3 Acids And Bases Answer Key Chemistry and Bestseller Lists
- 5. Accessing 19 3 Acids And Bases Answer Key Chemistry Free and Paid eBooks
 - 19 3 Acids And Bases Answer Key Chemistry Public Domain eBooks
 - 19 3 Acids And Bases Answer Key Chemistry eBook Subscription Services
 - 19 3 Acids And Bases Answer Key Chemistry Budget-Friendly Options
- 6. Navigating 19 3 Acids And Bases Answer Key Chemistry eBook Formats
 - ePub, PDF, MOBI, and More
 - 19 3 Acids And Bases Answer Key Chemistry Compatibility with Devices
 - 19 3 Acids And Bases Answer Key Chemistry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 19 3 Acids And Bases Answer Key Chemistry
 - Highlighting and Note-Taking 19 3 Acids And Bases Answer Key Chemistry
 - Interactive Elements 19 3 Acids And Bases Answer Key Chemistry
- 8. Staying Engaged with 19 3 Acids And Bases Answer Key Chemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 19 3 Acids And Bases Answer Key Chemistry
- 9. Balancing eBooks and Physical Books 19 3 Acids And Bases Answer Key Chemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 19 3 Acids And Bases Answer Key Chemistry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 19 3 Acids And Bases Answer Key Chemistry
 - Setting Reading Goals 19 3 Acids And Bases Answer Key Chemistry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 19 3 Acids And Bases Answer Key Chemistry
 - Fact-Checking eBook Content of 19 3 Acids And Bases Answer Key Chemistry
 - 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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