

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: $\text{H}_3\text{ClO}_4 + \text{H}_2\text{O} \longrightarrow \text{H}_2\text{ClO}_4 + \text{H}_3\text{O}^+$

b. Write a pH response to longer on **small** equilibrium constants for this reaction? **weakly** dissociating H_3ClO_4 in a acidic acid.

c. Dissolve **1.00\text{M}** NaClO_4 in a portion of water and a **strong** acid? **strongly** dissociating NaClO_4 in a strong base?

d. In your **strong** acid, no HClO_4 acting as a **Brønsted-Lowry** acid or a **Bentley-Lowry** base? **strongly** dissociating H_3O^+ because of a **strong** acid.

e. Dissolve the conjugate base of HClO_4 : ClO_4^- .

f. Dissolve NaClO_4 in **strong** acids, **strong** bases, or **neutral**: **strongly** dissociating NaClO_4 in a strong base.

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

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

b. Write a pH response to longer on **small** equilibrium constants for this reaction? **weakly** dissociating H_2O in a weak base.

c. Dissolve **1.00\text{M}** H_2O in a portion of water and a **strong** acid? **strongly** dissociating H_2O in a strong acid?

d. In your **strong** acid, no H_2O acting as a **Brønsted-Lowry** acid or a **Bentley-Lowry** base? **strongly** dissociating H_3O^+ because of a **strong** acid.

e. Dissolve the conjugate acid of H_2O : OH^- .

f. Dissolve H_2O in **strong** acids, **strong** bases, or **neutral**: strongly dissociating H_2O in a strong acid.

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

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

b. Write a pH response to longer on **small** equilibrium constants for this reaction? **weakly** dissociating H_2SO_4 in a weak acid.

c. Dissolve **1.00\text{M}** NaHSO_4 in a portion of water and a **strong** acid? **strongly** dissociating NaHSO_4 in a strong acid?

d. In your **strong** acid, no HSO_4^- acting as a **Brønsted-Lowry** acid or a **Bentley-Lowry** base? **strongly** dissociating H_3O^+ because of a **strong** acid.

e. Dissolve the conjugate base of HSO_4^- : SO_4^{2-} .

f. Dissolve NaHSO_4 in **strong** acids, **strong** bases, or **neutral**: **strongly** dissociating NaHSO_4 in a strong acid.

19 3 Acids And Bases Answer Key Chemistry

Frank R. Foulkes

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The Chemistry of the Several Natural and Artificial Heterogeneous Compounds Used in Manufacturing Porcelain, Glass, and Pottery Simeon Shaw, 1900 **Prentice Hall Chemistry**, 2000 Chemistry Textbook for College and University USA

Ibrahim Sikder, 2023-06-04 Chemistry Textbook USA **Physical Chemistry for Engineering and Applied Sciences**

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Cumulated Index Medicus ,1993 Chemistry, Inorganic and Organic Charles Loudon Bloxam,1883 Journal of the Chemical Society Chemical Society (Great Britain),1890 Titles of chemical papers in British and foreign journals included in Quarterly journal v 1 12 *Journal of the Society of Chemical Industry* Society of Chemical Industry (Great Britain),1899 Includes list of members 1882 1902 and proceedings of the annual meetings and various supplements Johnson's Universal Cyclopaedia ,1894 The Universal Cyclopaedia ,1900 Johnson's Universal Cyclopaedia Charles Kendall Adams,1893 **Johnson's Universal Cyclopaedia** Charles Kendall Adams,1899 **Journal of the Chemical Society** ,1881

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