

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 HClO_4 in a weak acid.

c. Dissolve **1.00\text{M}** NaClO_4 in a portion of water and a portion of **1.00\text{M}** **NaOH**. Dissolve **1.00\text{M}** HClO_4 in a portion of water.

d. In your **reaction** prediction, is HClO_4 acting as a **Brønsted-Lowry** acid or a **Brønsted-Lowry** base? **Brønsted-Lowry acid**. Because HClO_4 is a **strong** acid.

e. Identify the conjugate base of HClO_4 : **ClO_4^-**

f. Identify NaClO_4 as **strong**, **weak**, or **none**: **strong**. Because of common conjugate base ClO_4^- .

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}** NaOH in a portion of water and a portion of **1.00\text{M}** **NaCl**. Dissolve **1.00\text{M}** H_2O in a portion of water.

d. In your **reaction** prediction, is H_2O acting as a **Brønsted-Lowry** acid or a **Brønsted-Lowry** base? **Brønsted-Lowry acid**. Because of a **strong** base.

e. Identify the conjugate acid of H_2O : **H_3O^+**

f. Identify NaOH as **strong**, **weak**, or **none**: **strong**.

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 portion of **1.00\text{M}** **NaOH**. Dissolve **1.00\text{M}** H_2SO_4 in a portion of water.

d. In your **reaction** prediction, is H_2SO_4 acting as a **Brønsted-Lowry** acid or a **Brønsted-Lowry** base? **Brønsted-Lowry acid**. Because of a **strong** acid.

e. Identify the conjugate base of H_2SO_4 : **HSO_4^-**

f. Identify NaHSO_4 as **strong**, **weak**, or **none**: **strong**. Because of common conjugate base HSO_4^- in the **strong** acid NaOH .

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Charles Kendall Adams

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