

Name _____ Date _____ Class _____

CHAPTER 18

STUDY GUIDE

Section 18.2 Strengths of Acids and Bases

In your textbook, read about strengths of acids.

Circle the letter of the choice that best completes the statement or answers the question.

- Acid A and acid B are of equal concentration and are tested with a conductivity apparatus. When the electrodes are placed in acid A, the bulb glows dimly. When they are placed in acid B, the bulb glows more brightly. Which of the following is true?
 - Acid A is stronger than acid B.
 - Acid B is stronger than acid A.
 - Acid A and acid B are of equal strength.
 - No comparison of strength can be made from the results.
- A chemical equation for the ionization of an acid uses a single arrow to the right (\rightarrow) to separate the reactant and product sides of the equation. Which of the following is true?
 - The arrow does not indicate relative strength.
 - The ionizing acid is half ionized.
 - The ionizing acid is strong.
 - The ionizing acid is weak.
- Sulfuric acid is a strong acid. What is true about its conjugate base?
 - Its conjugate base is amphoteric.
 - Its conjugate base is strong.
 - Its conjugate base is weak.
 - No conclusion can be made regarding the strength of the conjugate base.
- In solution, a weak acid produces
 - a mixture of molecules and ions.
 - all ions.
 - all molecules.
 - anions, but no hydronium ions.
- Why are K_a values all small numbers?
 - The concentration of water does not affect the ionization.
 - The equilibrium is not stable.
 - The solutions contain a high concentration of ions.
 - The solutions contain a high concentration of un-ionized acid molecules.
- Which of the following dissociates entirely into metal ions and hydroxide ions in solution?
 - a strong acid
 - a strong base
 - a weak acid
 - a weak base
- In general, compounds formed from active metals, and hydroxide ions are
 - strong acids.
 - strong bases.
 - weak acids.
 - weak bases.

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