

19

ACIDS, BASES, AND SALTS

SECTION 19.1 ACID-BASE THEORIES (pages 587–593)

This section compares and contrasts acids and bases as defined by the theories of Arrhenius, Brønsted-Lowry, and Lewis. It also identifies conjugate acid-base pairs in acid-base reactions.

► Properties of Acids and Bases (pages 587–588)

- Circle the letters of all the terms that complete the sentence correctly.
The properties of acids include _____ .
 - reacting with metals to produce oxygen
 - giving foods a sour taste
 - forming solutions that conduct electricity
 - causing indicators to change color
- Bases are compounds that react with acids to form _____
and a(n) _____ .
- Circle the letters of all the terms that complete the sentence correctly.
The properties of bases include _____ .
 - tasting bitter
 - feeling slippery
 - changing the color of an indicator
 - always acting as a strong electrolyte

► Arrhenius Acids and Bases (pages 588–590)

- Match the number of ionizable hydrogens with the type of acid.

_____ one	a. diprotic
_____ two	b. triprotic
_____ three	c. monoprotic
- Is the following sentence true or false? Only the hydrogens in weak polar bonds are ionizable. _____
- Hydrogen is joined to a very _____ element in a very polar bond.
- Alkali metals react with water to produce _____ solutions.

Chapter 20 Acids And Bases Answer Key

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