# Chemical Bonding

### MIXED REVIEW

SHORT ANSWER Answer the following questions in the space provided.

1. Name the type of energy that is a measure of strength for each of the following types of bonds:

bond energy b. covalent bond enthalpy of vaporization c. metallic bond

Use the electronegativity values shown in Figure 20, on page 161 of the text, to determine whether each of the following bonds is nonpolar covalent, polar covalent, or ionic.

 ionic
 a. H—F
 nonpolar covalent
 d. H—H

 ionic
 b. Na—Cl
 polar covalent
 e. H—C

 polar covalent
 c. H—O
 polar covalent
 f. H—N

3. How is a hydrogen bond different from an ionic or covalent bond?

A hydrogen bond is a dipole-dipole attraction between a partially positive hydrogen atom and the unshared electron pair of a strongly electronegative atom such as O, N, or F. Unlike ionic or covalent bonds, in which electrons are given up or shared, the hydrogen bond is a weaker attraction. Hydrogen bonds are generally intermolecular, while ionic and covalent bonds occur between ions or atoms respectively.

4. H<sub>2</sub>S and H<sub>2</sub>O have similar structures and their central atoms belong to the same group. Yet H<sub>2</sub>S is a gas at room temperature and H<sub>2</sub>O is a liquid. Use bonding principles to explain why this is.
Oxygen has higher electronegativity than sulfur, which creates a highly polar bond.
Increased polarity in H<sub>2</sub>O bonds means a stronger intermolecular attraction, making water a liquid at room temperature. Hydrogen bonding exists between water molecules, but not between hydrogen sulfide molecules.

## **Review Chemical Bonding Answer Key**

**Guillaume Favre** 

**Review Chemical Bonding Answer Key:** 

Whispering the Techniques of Language: An Mental Journey through Review Chemical Bonding Answer Key

In a digitally-driven earth where displays reign great and immediate communication drowns out the subtleties of language, the profound strategies and mental subtleties hidden within phrases frequently get unheard. Yet, located within the pages of **Review Chemical Bonding Answer Key** a interesting fictional value sporting with raw thoughts, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, that wonderful opus attracts visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the mental depths of the emotional review, we can embark upon a honest exploration of the book is key subjects, dissect their fascinating writing model, and succumb to the effective resonance it evokes strong within the recesses of readers hearts.

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