

# CHAPTER 9 Chemical Reactions

## Section 1 Reactions and Equations

pages 282–288

### Practice Problems

pages 284–287

Write skeleton equations for the following word equations.

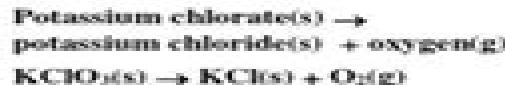
1. Hydrogen and bromine gases react to yield hydrogen bromide.



2. When carbon monoxide and oxygen react, carbon dioxide forms.



3. **Challenge** Write the word equation and the skeleton equation for the following reaction: when heated, solid potassium chlorate yields solid potassium chloride and oxygen gas.



Write chemical equations for each of the following reactions.

4. In water, iron(III) chloride reacts with sodium hydroxide, producing solid iron(III) hydroxide and sodium chloride.



5. Liquid carbon disulfide reacts with oxygen gas, producing carbon dioxide gas and sulfur dioxide gas.



6. **Challenge** A piece of zinc metal is added to a solution of dihydrogen sulfate. This reaction produces a gas and a solution of zinc sulfate.



### Section 1 Review

page 288

7. **Explain** why it is important that a chemical equation be balanced.

Because mass is neither created nor destroyed in chemical reactions, the numbers of atoms of all elements must be equal on both sides of the reaction arrow.

8. List three types of physical evidence that indicate a chemical reaction has occurred.

Answers may include release or absorption of energy, change in color, change in odor, formation of a gas, or formation of a solid.

9. **Compare and contrast** a skeleton equation and a chemical equation.

The skeleton equation includes the formulas of reactants and products. The chemical equation gives the relative amounts of reactants and products.

10. **Explain** why it is important to reduce coefficients in a balanced equation to the lowest possible whole-number ratio.

Coefficients in the lowest ratio most clearly indicate the relative amounts of substances in a reaction.

11. **Analyze** When balancing a chemical equation, can you adjust the subscript in a formula? Explain.

No. Doing so changes the identity of the substance.

# Solutions Manual Chemical Reactions

**Lanny D. Schmidt**

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Instructor's Solutions Manual for the Engineering of Chemical Reactions, Second Edition Lanny D. Schmidt,2004-10-18

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Solutions Manual for Elements of Chemical Reaction Engineering, 4th Ed Brian Vicente,H. Scott Fogler,Max Nori,2006

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