

# CHAPTER 17 STUDY GUIDE

## Chemical Equilibrium

### Section 17.1 Equilibrium: A State of Dynamic Balance

*In your textbook, read about chemical equilibrium.*

**Complete each statement.**

1. When a reaction results in almost complete conversion of reactants to products, chemists say the reaction goes to \_\_\_\_\_.
2. A reaction that can occur in both the forward and the reverse directions is called a(n) \_\_\_\_\_.
3. \_\_\_\_\_ is a state in which the forward and reverse reactions balance each other because they take place at equal rates.
4. At equilibrium, the concentrations of reactants and products are \_\_\_\_\_ but that does not mean that the amounts or concentrations are \_\_\_\_\_.
5. Equilibrium is a state of \_\_\_\_\_, not one of \_\_\_\_\_.

*In your textbook, read about equilibrium expressions and constants.*

**For each statement below, write *true* or *false*.**

- \_\_\_\_\_ 6. The law of chemical equilibrium states that at a given pressure, a chemical system may reach a state in which a particular ratio of reactant to product concentrations has a constant value.
- \_\_\_\_\_ 7. The equation  $\text{H}_2(\text{g}) + \text{I}_2(\text{g}) \rightleftharpoons 2\text{HI}(\text{g})$  is an example of a homogeneous equilibrium.
- \_\_\_\_\_ 8. If an equilibrium constant has a value less than one, the reactants are favored at equilibrium.
- \_\_\_\_\_ 9. The value for  $K_{\text{eq}}$  is constant only at a specific volume.
- \_\_\_\_\_ 10. If the equilibrium constant for a reaction at 300 K is 49.7, the concentration of the reactants will be greater than the concentration of the products.
- \_\_\_\_\_ 11. A heterogeneous equilibrium means that reactants and products are present in more than one state.
- \_\_\_\_\_ 12. The product of the forward chemical reaction is HI, for the equilibrium expression:

$$K_{\text{eq}} = \frac{[\text{HI}]^2}{[\text{H}_2][\text{I}_2]}$$

# Chemistry Chemical Equilibrium Answers Study Guide

**Robinson**



## **Chemistry Chemical Equilibrium Answers Study Guide:**

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introduction of the ideal gas law and a new development of thermodynamics Each chapter ends with review questions and problems

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**Study Guide for Hein and Arena's Foundations of College Chemistry** Peter Scott, Rachael Enriquez Porter, 1999-04-18

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**Chemistry, Study Guide** Bernice G. Segal, Peter S. Shenkin, 1989-02-14 This Second Edition of the first year chemistry text known for its clarity of exposition and its large number of illustrative worked problems contains a more rigorous treatment of electrochemistry chemical equilibrium and thermochemistry Worked examples now number over 300 and exercises over 1460

**Study Guide** Joan I. Senyk, Darrell D. Ebbing, 1984

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web the males grow to around 5 ½ feet tall and weigh around 400 pounds the females grow to 4 ½ feet tall and weigh around 200 pounds gorillas have long arms even longer than their legs they use their long arms to knuckle walk this is where they use the knuckles on their hands to walk on all fours

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