Rates of Reaction Chapter 18 Equilibrium

Objectives

- Explain what is meant by the rate of a chemical reaction
- Using collision theory, explain how the rate of a chemical reaction is influenced by the reaction conditions

Key Terms

• rates

- activated complex
- catalyst

- collision theory
- transition state
- inhibitor

activation energy

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

measure the speed of any change that occurs within	1
a time interval. Collision theory states that particles when	2
they collide, provided that they have enough3	3
The rate at which a chemical reaction occurs is determined	4.
by an4 energy barrier. The activation energy is the5	5
energy that reactants must have to go to6 The higher the	6
activation energy barrier, the	7.
reactants overcome the activation barrier in a number of ways.	8
Two effective methods are to increase the8 at which the	9
reaction is done or use a9 Rates of reaction can also be	10.
increased by the concentration of reactants.	
Part B True-False	
Classify each of these statements as always true, AT; sometimes true, S	T; or never true, NT.
11. An increase in temperature will generally increase the rate of a reaction.	
12. A catalyst is considered as a reactant in a chemical reaction.	