

18

REACTION RATES AND EQUILIBRIUM

Vocabulary Review

Match the correct vocabulary term to each numbered statement. Write the letter of the correct term on the line.

Column A

- _____ 1. the disorder of a system
- _____ 2. a substance that interferes with the action of a catalyst
- _____ 3. reactions that favor the formation of products at the specified conditions
- _____ 4. the minimum energy colliding particles must have in order to react
- _____ 5. equals the product of the concentrations of the ions, each raised to a power equal to the coefficient of the ion in the dissociation equation
- _____ 6. the arrangement of atoms at the peak of the activation-energy barrier
- _____ 7. a reaction in which the rate is directly proportional to the concentration of one of the reactants
- _____ 8. energy that is available to do work
- _____ 9. when the forward and reverse reactions are taking place at the same rate
- _____ 10. the ratio of product concentrations to reactant concentrations, with each concentration raised to a power given by the number of moles of that substance in the balanced equation

Column B

- a. activation energy
- b. solubility product constant
- c. chemical equilibrium
- d. free energy
- e. entropy
- f. activated complex
- g. inhibitor
- h. equilibrium constant
- i. spontaneous reactions
- j. first-order reaction