



Honors/Advanced Placement Equilibrium Test Review

Directions: Please answer the following questions to the best of your ability.

1. Which three laws govern the aspects of the following?
 - a) Equilibrium: that which is stable (has not yet that forward reaction to the other side of the reaction equation).
 - b) Three factors that can increase the value of a reaction are increasing _____ and _____.
 - c) The activation energy is the _____ amount of energy needed for reactants to become products.
 - d) The difference in energy between the reactants and products is called the _____.
 - e) Activation energy for the chemical reaction is the _____.
 - f) An increase in pressure for a system at equilibrium will cause the reaction to shift in the direction that has _____ moles of gaseous molecules.
 - g) If a reaction is endothermic in that forward direction, when an increase in temperature will cause the reaction to shift to the _____.
2. For the reaction, fill in the way it will shift. (L, R, K) for the following changes:

$$\text{NH}_4\text{Cl} + \text{HCl(g)} \rightleftharpoons \text{NH}_3\text{(g)} + \text{H}_2\text{Cl(g)}$$

a) _____ increase in pressure	e) _____ decrease K
b) _____ decrease in temperature	f) _____ shift
c) _____ addition of a catalyst	g) _____ increase NH_3
d) _____ increase K	h) _____ decrease pressure
3. In a 5.0 L container at equilibrium contains 1.00 moles of SO_2 , 0.50 moles SO_3 , 0.50 moles O_2 , and 0.50 moles Cl_2 . Calculate the value of the equilibrium constant for this reaction.

$$2\text{SO}_2 + \text{O}_2 \rightleftharpoons 2\text{SO}_3 + 2\text{Cl}_2$$
4. The following reaction has an equilibrium constant of 1.1. What is the concentration of SO_2 if $[\text{O}_2] = 0.10 \text{ M}$, $[\text{SO}_3] = 1.70 \text{ M}$, and $[\text{Cl}_2] = 1.0 \text{ M}$.

$$2\text{SO}_2 + \text{O}_2 \rightleftharpoons 2\text{SO}_3 + 2\text{Cl}_2$$

Reaction Rates And Equilibrium Test Answers

H Kauffman



Reaction Rates And Equilibrium Test Answers:

Unveiling the Magic of Words: A Overview of "**Reaction Rates And Equilibrium Test Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Reaction Rates And Equilibrium Test Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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