

Equilibrium: Checking for Understanding & Practice Problems

Name Bern "key" Period

As a reaction is approaching equilibrium describe how the following change.

1. Reactant concentration.

As the rxn goes to the right the reactant concentration decreases.

2. Products concentration.

As the rxn goes to the right the product concentration increases.

3. Forward reaction rate.

The reactant concentration decreases as the rxn proceeds, therefore there are less reactant collisions.

4. Reverse reaction rate.

causing the forward rate to decrease. As the rxn proceeds, the product concentrations ↑ so more product collisions ↑ the rate of the reverse rxn.

5. What is equal at equilibrium?

The rate of the forward rxn and the rate of the reverse rxn.

6. What is constant at equilibrium?

The reactant and product concentrations.

Solve the following problems and be sure to show all of your work.

1. At equilibrium at 100°C, a 2.0L flask contains:

0.075 mol of PCl_5

0.050 mol of H_2O

0.750 mol of HCl

0.500 mol of POCl_3

Calculate the K_{eq} for the reaction:



$$M = \frac{\text{mol}}{\text{L}}$$

$$M_{\text{H}_2\text{O}} = \frac{0.050 \text{ mol}}{2.0 \text{ L}} = 0.025 \text{ M}$$

$$M_{\text{HCl}} = \frac{0.750 \text{ mol}}{2.0 \text{ L}} = 0.38 \text{ M}$$

$$M_{\text{POCl}_3} = \frac{0.500 \text{ mol}}{2.0 \text{ L}} = 0.25 \text{ M}$$

$$K_{eq} = \frac{[\text{HCl}]^2 [\text{POCl}_3]}{[\text{H}_2\text{O}]}$$

$$K_{eq} = \frac{(0.38)^2 (0.25)}{(0.025)} = 1.4$$

$$K_{eq} = 1.4$$

Review Chemical Equilibrium Answers Section 1

George H. Schenk, Darrell D. Ebbing



Review Chemical Equilibrium Answers Section 1:

Review Chemical Equilibrium Answers Section 1 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Review Chemical Equilibrium Answers Section 1**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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