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Ice table chemistry practice problems with answers

Dependency Injection Patterns - Part 1

- 1) Write the expression for the equilibrium constant, K_{eq} , for the following reactions:

 - $\text{H}_2\text{SO}_4 + \text{Ba}(\text{OH})_2 \rightleftharpoons \text{BaSO}_4 + 2\text{H}_2\text{O}$
 - $\text{CH}_3\text{CO}_2\text{H} + \text{Na}_2\text{CO}_3 \rightleftharpoons \text{CH}_3\text{COONa} + \text{NaHCO}_3$
 - $\text{CH}_3\text{CO}_2\text{H} + \text{CaCO}_3 \rightleftharpoons \text{CH}_3\text{COONa} + \text{CaHCO}_3$
 - $\text{CH}_3\text{CO}_2\text{H} + \text{Na}_2\text{SiO}_3 \rightleftharpoons \text{CH}_3\text{COONa} + \text{Na}_2\text{SiO}_4$
 - $\text{CH}_3\text{CO}_2\text{H} + \text{Na}_2\text{S} \rightleftharpoons \text{CH}_3\text{COONa} + \text{Na}_2\text{S}_2\text{O}_3$

2) Calculate the equilibrium expression for equation (b) if the equilibrium concentrations are: $[\text{H}_2\text{O}] = 0.20\text{ mol/L}$, $[\text{Na}_2\text{CO}_3] = 0.00\text{ mol/L}$, $[\text{Na}_2\text{SiO}_3] = 0.01\text{ mol/L}$.

3) Calculate the equilibrium expression for equation (b) if the equilibrium concentrations are: $[\text{Na}_2\text{O}_2] = 0.70\text{ mol/L}$, $[\text{Na}_2\text{O}_3] = 2.00\text{ mol/L}$, $[\text{O}_2] = 0.20\text{ mol/L}$.

4) $\text{Fe}_2\text{O}_3 + \text{3C} \rightleftharpoons 2\text{Fe} + \text{3CO}_2$. Equal molar quantities of carbon and aluminum oxide are heated in a closed chamber. The equilibrium constant for this reaction is 9.8 at a certain temperature, and the equilibrium mixture contains 1.44 mol CO. How many moles of CO are present at the equilibrium mixture?

5) The equilibrium constant for the reaction of zinc: $2\text{Zn}(\text{S}) + \text{O}_2(\text{G}) \rightleftharpoons 2\text{ZnO}(\text{S})$ is 1.00 L². The amount of ZnO at equilibrium is 0.006 mol. What is the equilibrium concentration of $\text{O}_2(\text{G})$?

6) Which value of K_{eq} indicates most favorability of product formation: $K_{eq} < 1$ or 10^2 ; $K_{eq} > 10^2$; $K_{eq} = 10^2$?

7) Hydrogen sulfide gas decomposes into the elements and establishes an equilibrium at 1600°C: $\text{H}_2\text{S}(\text{G}) \rightleftharpoons \text{H}_2(\text{G}) + \text{S}(\text{S})$. At 1.00 L vessel, the gas mixture contains 0.10 mol H₂S, 0.008 mol H₂, and 0.002 mol S. Calculate the equilibrium constant, K_{eq} , for this reaction.

Steps to Finding Eq Const.

Write the balanced chemical equation

Set up the 1st law

Write the Equilibrium Expression

Use it given info into one the ICE Box

Determine the direction of the reaction

Will it move forward or reverse to establish equilibrium? $\Delta Q < 0$ or $\Delta Q > 0$.

Steps to Finding Eq. Const. continued

(3) Set up algebraic expression for the change using the stoichiometry of the reaction

(4) Isolate the x

(5) Apply x to find equilibrium concentrations

(6) Carbon monoxide reacts with steam to produce carbon dioxide and hydrogen. At 700K, the equilibrium constant is 3.16. Calculate the equilibrium concentrations of all species if 1.00 mol of each component is mixed in a 1.00-L flask. Input answer, assume the equilibrium concentration of carbon dioxide

Steps to Finding Eq Const.

Write the balanced chemical equation

$\text{CO} + \text{H}_2\text{O} \rightleftharpoons \text{CO}_2 + \text{H}_2$

Chemistry 12

Unit 2 • Equilibrium

Chemistry 12

Tutorial 5 • Solutions

The Equilibrium Constant (K_{eq})

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