CHEM 162: Final Exam Study Guide

Chapter 16: Chemical Equilibrium

equilibrium: state where the forward and reverse meetings or processes occur at the same rate

- kinox that envicentrations are not changing at equilibrium, but they heed not be equal to one written.
- Be able to indicate when equilibrium is achieved given concentration vs. time plots

Use the law of mass action to write equilibrium expressions for K, or K, for homogeneous and heteropersous muchons.

Include only gisses; omit pure liquids and holids.

For general reaction, JA + AB week IC + MD

Entent of reaction

- For large values of K_i at K_i p 10°s, the reaction essentially goes to completion.
 - The equilibrium makine consists mostly of products (pro-duct favored)
 - The equilibrium lies to the right
- For small values of K, or K, (430°), the reaction does not occur to any significant degree.
 - The equilibrium making consists mostly of martings (newtient toward).
 - -- The equilibrium lies to the left
- For intermediate values (10° < Kc or K, < 10°), the equilibrium involure contains appreciable amounts of both reactants and products.
 - in Fig. K, erK, > 1, equilibrium lies to the right.

Equilibrium positiones: Set of equilibrium

concentrations or plantial pressures of reactants and products for a system.

 Where K_n or K_n for a reaction are constant for a given temperature, various equilibrium positions are possible for that reaction depending to the initial concentrations of reactions and products.

Precision of K., and K., RUMKLERTS**

- Be able to solve for An for any homogeneous or heterogeneous reaction.
- Remove threat Higher, from John 0.

Know K, or K, are unitless!

Reaction Quotient (Q) instant state of system, not necessarily at equilibrium.

- Also determined using law of mass action
- O 4 K too many reactants.
- System shifts right to make more graduate.
- O > K, too many products.
 - -- System stylls left to more more reactions.
- O + K: system at equilibrium

Determination of K., or K.,

- Be sole to solve for either using a variety of experimental rules
 - Geven equilibrium spricentrations or partial Pra-
 - Govern mittel & changes in conc. or partial Pts.
 - Causes total pressure at equilibrium.

Equilibrium Problems Selving for K., or K...

- Clet qualiproped chemical equation.
- Weite equilibrium expression.
- 3. Set up equebrium ICE table.
 - Let x+change in conc. or partial pressure.
- Substitute equilibrium conc. or pressures into equilibrium expression for K_b or K_b.
- 5. Solve for x, using quadratic method if necessary.
- Substitute value for x into equilibrium ponc, or pressures to solve for K_a or K_b.

Le Chapetier's Principle

- A system at equilibrium will shift (if possible) to minimize any stress (change in concentration, pressure, volume, or temperature)
- Predict strits in equilibrium given specific changes.
- Only changes in temperature (T) affect K, or K.
- For endothermic reactions, K_p and K_p T so T T.
 - For easthermic reactions, K, and K, T so T I.

Characteristics of the Equilibrium Expression

- For reverse reaction, equilibrium expression is recognic at of that for forward reaction.
- Multiplying operficients by factor, in, raises equilibrium constant to n^o power
- Martington Englicherin
 - When a reaction can be expressed as a sum of two or more reactions, the equilibrium constant for the overall reaction is simply the product of the equilibrium constants for the included constants.
 - Be able to manipulate a series of reactions to determine the equilibrium constant for an overall reaction.

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