# CHEMICAL EQUILIBRIUM

$$K_c = \frac{[B]}{[A]} = \text{mol } L^{-1}$$

$$\succ$$
  $K_p = \frac{P_p}{P_A} = Partial Pressure$ 

$$K_n = \frac{X_n}{X_n} = \text{mole fraction}$$

$$ightharpoonup K_p = K_c(RT)^{torg}$$
 where  $\Delta n_g = n_p - n_g$ 

#### Predicting the extent of reaction :

- K<sub>C</sub> > 10<sup>3</sup> [Forward reaction is favoured.]
- K<sub>c</sub> < 10<sup>-3</sup> [Reverse reaction is favoured.]
- 10<sup>-3</sup> < K<sub>C</sub> < 10<sup>3</sup> [Both reactants and products are present in equilibrium]

#### Free Energy Charge (△G)

- a) If ΔG = 0 then reversible reaction would be in equilibrium, K<sub>c</sub> = 1
- b) If ΔG = (+) ve then equilibrium will be displaced in backward direction; K<sub>c</sub> < 1</li>
- c) If AG = (-) we then equalibrium will shift in forward direction;

$$K_c > 1$$

(a) K<sub>c</sub> unit → (moles/lit)<sup>to</sup>

AG or a reaction under any set of conditions is related to its value under standard conditions, i.e. AG° by the equation

$$\Delta G = \Delta G^{\circ} + 2.303 \text{ RT log Q}$$

 Under equlibrium conditions, for same number of moles of reactants and products

$$Q = K_p = K_c = K$$
 and  $\Delta G = 0$ 

$$\Delta G^{\circ} = -2.303 \text{ RT log K}$$

 We have replaced K<sub>p</sub> by K called thermodyannic equilibrium constant

#### Significance of AG°

Significance of AG° can be explained from the following points

(i) If ∆G° < 0, log K > 0, ⇒ K > 1

Hence, reaction is spontaneas in forward direction.

(ii) Hence ∆G° < 0, log K > 0, ⇒ K < 1</p>

Hence, reaction is non-spontaneous or a reaction proceeds in the forward direction to such a small proceeds in the forward direction to such a small extent that a very small amount of the product is formed.

**Camilla Rothe** 

Lamefoot Mine Site, Supplement to the Kettle River Key Project **Chemistry** McGraw-Hill Staff,2001-03 Expansion ,1994 Science Books ,1967 Supplementary List of Publications of the National Bureau of Standards Scientific American Supplement, 1917 **Physical Chemistry** Keith James Laidler, John H. Meiser, 1982 ,1960 **Salters Advanced Chemistry** George Burton, 2000-07-31 The texts in the Salters NASA Technical Paper .1984 Advanced Chemistry series have been updated to match the specifications for A Level Chemistry from September 2000 This supplement pack is designed to help teachers to use the original editions of the texts until they can be replaced Resources in Education ,1994 Current Catalog National Library of Medicine (U.S.),1974 First multi year cumulation **Supplementary Readings for Chemical Bond Approach** Robert K. Fitzgerel, William covers six years 1965 70 Franklin Kieffer, 1960 Government-wide Index to Federal Research & Development Reports, 1967 Essentials of Chemical Reaction Engineering H. Scott Fogler, 2011 Accompanying DVD ROM contains many realistic interactive Phase Equilibria in Chemical Engineering Stanley M. Walas, 2013-10-22 Phase Equilibria in Chemical simulations Engineering is devoted to the thermodynamic basis and practical aspects of the calculation of equilibrium conditions of multiple phases that are pertinent to chemical engineering processes Efforts have been made throughout the book to provide guidance to adequate theory and practice The book begins with a long chapter on equations of state since it is intimately bound up with the development of thermodynamics Following material on basic thermodynamics and nonidealities in terms of fugacities and activities individual chapters are devoted to equilibria primarily between pairs of phases A few topics that do not fit into these categories and for which the state of the art is not yet developed quantitatively have been relegated to a separate chapter The chapter on chemical equilibria is pertinent since many processes involve simultaneous chemical and phase equilibria Also included are chapters on the evaluation of enthalpy and entropy changes of nonideal substances and mixtures and on experimental methods This book is intended as a reference and self study as well as a textbook either for full courses in phase equilibria or as a supplement to related courses in the chemical engineering curriculum Practicing engineers concerned with separation technology and process design also may find the book useful **Applied Mechanics** Monthly Catalog of United States Government Publications, Cumulative Index United States. **Reviews** ,1949 Superintendent of Documents, 1978 Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography **Elements of Mechanics** Henry Anton Erikson,1932 (supplement 248) ,1990 Key to algebraical factors [&c.]. Dorabji H. Vachha, 1898 Water Quality: Management and Pollution Control Problems (Jerusalem Workshop Papers) Samuel Harry Jenkins, 1973

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