Characteristics of Equilibrium constant

- * equilibrium constant for a particular reaction is always constant
- * depending only upon the temperature of the Meaction and independent of the concentration of the reactants and products.
- * If the reaction (having hear) is neversed then $A \rightarrow B \Rightarrow k$ B → A = /k
- * If the reaction (raving kers) is divided by a then

 | H' = | IF |
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 | Previous Fraction (raving kers) is divided by a then,

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- * If the reaction (having keg) is written in two steps (having k, & k2) then (k = k, x h2)
- * The value of the equilibrium constant is not affected by the addition of a calalyst to the Reaction

3. Cacosis) = Cao(s) + Co2(9)

Most of disociation reaction are favoures at law pressure because dissociation normally nesults change in volume of system.

4. CO2(9) = CO2(ag) solubility of any ogas in any liquis is favoures at high pressure.

5. $M(s) + \chi(s) \Rightarrow M - \chi(s)$

The extent of adsorption of any gas Over any solid surface increses on the pressure.

Effect of Change in Pressure Temperts O. UK

(i) Endo thermin Drocess NOtes

Preview = E+D 104. O+ve)

Preview = Rxn will proceed in forward direction

TI > Rxh move backward direction

(ii) exothermic process

A+B = C+D (DH=+Ve)

TI > forward RXH

TA > Lackward RXN

Application

1. N2 + 02 = 2 NO (DH = +ve) For higher Yees of No temperature should be high.