



## Units kp and kc

Kp and Kc are the balance constant of an ideal gaseous mixture. Kp is a balance constant that is used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is a balance constant used when equilibrium concentrations are expressed in atmospheric pressure and Kc is (IC pright ] (2) [A [R ], right ], (2), [A [R ], Figh ], (2

be constant. Therefore, the relationship is also constant called Keg. : Since, this expression implies all variable terms, so the proportion of would also be constant called Kc. [When the concentration ratio of reagents and products is taken into account, The equilibrium constant is called Kc] : Kc - Assuming these gases behave ideally, we can apply the ideal gas equation PV - nRT P - CRT C -  $\therefore$  [C], [D], [A], [B] -  $\therefore$ Kc - where and PB are the partial pressures of C, D, A and B respectively. Since LHS is a constant, therefore, the ratio of partial product pressures to reagents would also be a constant called Kp. :Kp - For this balance, Kp - Kc, but for other balances, this may not be the case. (ii) consider the reaction of type A(s) + B(g) C(soln.) + D(g) Its balance constant, Keq would be Keq - Concentration of C is the number of C moles per unit of solution volume. The concentration of D is the number of D moles per unit volume the container (we can assume that the volume of the solution is negligiblely small compared to the volume occupied by the gas is equal to the volume of the container). The concentration of A is the number of moles of A per solid volume unit, A. The concentration of all pure solids and pure liquids is a constant. This is because if we initially take w gm of A, then the moles of A are w/M. The volume of A is the density of A. Therefore, the initial concentration of A is . Therefore, it is clear that in balance also the concentration of A is w/d where d is the density of A. Therefore, the initial concentration of A is . Therefore, it is clear that in balance also the concentration of A is w/d where d is the density of A. Therefore, the initial concentration of A is . Therefore, it is clear that in balance also the concentration of A is w/d where d is the density of A. Therefore, the initial concentration of A is . remains as d/M (d and M are constant). In fact, even if A were a pure liquid, its concentration would have remained constant. Therefore, here the concentration of A does not change over time while the concentration of B, C and D varies over time. Therefore, we bring all the constant terms on the one hand and we get Keq[A] - This relationship that is a constant and that implies only the concentration terms that are variable is called Kc. :KC - Keq [A] [Note: The distinction between Kc and Keq is that in Keq expression all substances are involved while in Kc's expression there are only solutions and gases involved. Kc's expression lacks pure components such as pure solids and pure liquids since its concentrations are constant] (iii) Consider another reversible reaction of type x1A(g) + x2B(g) y1C(g) + y2D(g) The expression of the balance constant would be ...Keq - Since in this expression all terms are variable, so the ratio would also be constant called Kc. :Kc - As we know, the concentration of a gas is given by P/RT. Therefore, [C], [D], [A], [B], :Kc, :Kc LHS of this equation being a constant since T is fixed and R and Kc are constant. Therefore, RHS of the equation would also be constant. Therefore, for this balance the ratio of high partial pressures to the power of the appropriate estechiometric coefficients is also a constant called Kp. : Kp - Now suppose that A is pure solid or pure liquid. For such a balance, Kc's expression would be Kc and following the sequence given above of derivation, Kp would be Kp - Now if we assume that A was a solute present in a solution, then Kc's expression would remain the same, that is, KC. However, if we try to express concentrations in terms of partial pressures, we would not do so for A, as it is not possible to express the concentration of a solution in terms of its vapour pressure or pressure and constants. Therefore [A] remains as such :KC - KC The R.H.S. of the previous expression is a constant that implies that the L.H.S is also a constant. This new expression cannot be called as KC or KP, as terms of concentration and terms of pressure. We call it KPC. We can also see that if we take [A] to the R.H.S. the L.H.S. contains only terms, but then it is not a constant since [A] is a variable. Therefore, we can conclude that Kp exists for those balances that meet the conditions given. (i) You must have at least one gas in the reagents or products and (ii) you must not have any components in the solution phase. Relationship between Kp and Kc In general, the relationship between Kp and Kc for a reversible reaction Kp - where number of moles of gaseous products - number of moles of gaseous reagents R - Constant gas and T - Absolute temperature [Remember that the value of R will be used in atm liter units per mole per Kelvin]. (i) If n to 0, then Kp to Kc, for example N2(g) + O2(g) 2NO(g) (ii)Si > 0, then Kp > Kc, for example PCI5(g) PCI3(g) + CI2(g), where n to 2 x 1 (iii) If < 0, then Kc &gt; Kp, For example N2(g) + 3H2)(g) 2NH2(g), where the Kc unit would be. Similarly, when pressure is expressed in atmospheres, Kp's unit would be. [Note: The given Kp or Kc unit for a balance in a problem means that if the value of the balance constant is given for balance in the forward direction or in the reverse direction]. address].

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