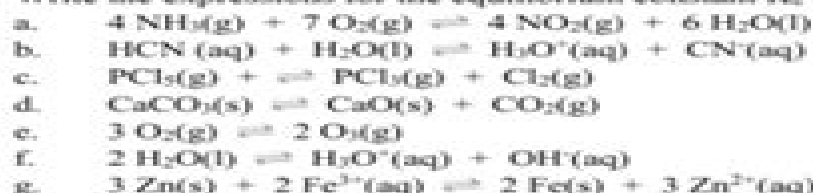


Chemical Equilibrium**STUDY QUESTIONS & PROBLEMS**

1. Write the expressions for the equilibrium constant
- K_c
- for the following reactions:



2. Write the equilibrium constant expressions for the following reactions. How are they related to one another?



3. Calculate the value of the equilibrium constant for the following system, given the data shown:



Concentrations at equilibrium:

$[\text{H}_2]$	=	1.5 mol Liter ⁻¹
$[\text{CO}_2]$	=	2.5 mol Liter ⁻¹
$[\text{H}_2\text{O}]$	=	0.5 mol Liter ⁻¹
$[\text{CO}]$	=	3.0 mol Liter ⁻¹

4. Chlorine molecules will dissociate at high temperatures into chlorine atoms. At 3000°C, for example,
- K_c
- for the equilibrium shown is 0.55. If the partial pressure of chlorine molecules is 1.5 atm, calculate the partial pressure of the chlorine atoms:



5. Suppose that 0.50 moles of hydrogen gas, 0.50 moles of iodine gas, and 0.75 moles of hydrogen iodide gas are introduced into a 2.0 Liter vessel and the system is allowed to reach equilibrium.

Calculate the concentrations of all three substances at equilibrium. At the temperature of the experiment, K_c equals 2.0×10^{-2} .

6. If the mechanism of a chemical equilibrium consists of two reversible elementary steps, each with its own equilibrium constant
- K_{c1}
- and
- K_{c2}
- , what expression relates the equilibrium constant
- K_c
- for the overall equilibrium to the two constants
- K_{c1}
- and
- K_{c2}
- ?

7. When 2.0 mol of carbon disulfide and 4.0 mol of chlorine are placed in a 1.0 Liter flask, the following equilibrium system results. At equilibrium, the flask is found to contain 0.30 mol of carbon tetrachloride. What quantities of the other components are present in this equilibrium mixture?



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web objective to apply stoichiometric principles to calculate the appropriate chemical equation for the reaction between iron metal and a solution of copper i sulfate introduction in the form of finely split powder copper metal is produced as a byproduct of the process as iron ions the iron metal dissolves

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper s mass into account add these to the beaker 3 measure 50 0 ml of water in the cylinder and add it to the beaker 4

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web description great lab for use during stoichiometry unit in chemistry reinforces ideas of mole ratios and stoichiometry calculations by measuring the mass of iron that reacts and the mass of copper metal produced students can calculate the ratio of moles of reactant to moles of product this experimental mole ratio from lab can be compared

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