

WORKSHEET
CHEMISTRY FOR ENGINEERING STUDENTS, LECTURE 1
 CHEMISTRY OF THE ELEMENTS OF GROUP 1: MONOVALENT METALS

QUESTION 1

PART 1. SUBSTITUTIONAL ALLOYS OF METALS WITH ONE PRINCIPAL

1. Substitution of Zn atoms in crystalline copper by gold atoms yields substitutional alloys. Consider the following reaction: $Zn_{(s)} + Cu_{(s)} \rightarrow Zn_{(s)} + Cu_{(s)}$. Assume the process is reversible.
 - a. Write the balanced chemical equation for the process.
 $Zn_{(s)} + Cu_{(s)} \rightleftharpoons Zn_{(s)} + Cu_{(s)}$
 - b. Write the law of mass action for the reaction as it applies to this process.
 $K = \frac{[Zn]_{(s)} [Cu]_{(s)}}{[Zn]_{(s)} [Cu]_{(s)}}$
 - c. Write the expression for the equilibrium constant K for the reaction.
 $K = 1$

2. Solid solution systems between 2 metals exhibit the same chemical properties as the pure components. This system exhibits a regular solution. Write the law of mass action for the reaction as it applies to this process.
 - a. Write the balanced chemical equation for the process.
 $Zn_{(s)} + Cu_{(s)} \rightleftharpoons Zn_{(s)} + Cu_{(s)}$
 - b. Write the law of mass action for the reaction as it applies to this process.
 $K = \frac{[Zn]_{(s)} [Cu]_{(s)}}{[Zn]_{(s)} [Cu]_{(s)}}$
 - c. Write the expression for the equilibrium constant K for the reaction.
 $K = 1$

3. Substitution of Zn atoms in copper yields a regular solution. Write the law of mass action for the reaction as it applies to this process.
 - a. Write the balanced chemical equation for the process.
 $Zn_{(s)} + Cu_{(s)} \rightleftharpoons Zn_{(s)} + Cu_{(s)}$
 - b. Write the law of mass action for the reaction as it applies to this process.
 $K = \frac{[Zn]_{(s)} [Cu]_{(s)}}{[Zn]_{(s)} [Cu]_{(s)}}$
 - c. Write the expression for the equilibrium constant K for the reaction.
 $K = 1$

PART 2. INTERSTITIAL ALLOYS WITH ONE PRINCIPAL

1. Iron metal dissolves hydrogen gas to form an interstitial alloy. Write the law of mass action for the reaction as it applies to this process.
 - a. Write the balanced chemical equation for the process.
 $Fe_{(s)} + H_{2(g)} \rightleftharpoons FeH_{(s)}$
 - b. Write the law of mass action for the reaction as it applies to this process.
 $K = \frac{[FeH]_{(s)}}{[Fe]_{(s)} [H_2]_{(g)}}$

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