WORKSHEET:SOLUTIONS AND COLLIGATIVE PROPERTIES

SET A:

 Find the molarity of all ions in a solution that contains 0.165 moles of aluminum chloride in 820, ml solution.

Answer: [Al 3+]= 0.201 M , (Cl'] = 0.603M.

Find the molarity of each ion present after mixing 27 ml of 0.25 M HNO₃ with 36 ml of 0.42 M Ca(NO₃)₂ (Note: There is no reaction taking place.)

Answer: [H*]= 0.11 M, [NO3]= 0.59M, [Ca2+]= 0.24 M.

Find the molarity of each ion present after mixing 35 ml of 0.42 M. K₂SO₄ with 27 ml of 0.17M K₃PO₄.

Answer: [K *] = 0.71 M, [SO42] = 0.24 M, [PO43] = 0.074 M.

4. Calculate the concentration of each ion, and the mass of any precipitate when a 0.300 mole of aluminum hydroxide is added to 50.0 ml of 2.5 M, nitric acid solution (Assume that there is no volume change upon the addition of the aluminum hydroxide to the solution).
Hint: Write a balanced equation for the reaction taking place.

Answer: 20 g Al(OH)3 left over, [Al3+]=0.83 M, INOn1= 2.5M

5. A solution consists of 3.88 g benzene, C₆H₆, and 2.45 g toluene ,C₆H₅CH₃. The vapor pressure of pure benzene at 20. °C is 75 mm Hg and that of toluene at 20.0 °C is 22 mm Hg. Assume that Raoult's law holds for each component of the solution, calculate the mole fraction of benzene in the vapor. (molar mass of benzene – 78.0 g/mole and toluene – 92.0 g/mole.)

Answer- 0.87

6. The freezing point of a glucose solution ($C_6H_{12}O_6$:molar mass= 180.0 g/mole) is - 10.3 °C . The density of the solution is 1.50 g/ml. What is the molarity of the glucose solution? (K_2 for water is 1.86 °C.kg/mole)

Answer: 4.16 mole/L

- What is the normal boiling point of a 2.70 M solution of KBr that has a density of 1.80 g/mi?(Kg for HoO is 0.512 °C .kg/mole)
 Answer=: 101.9 °C
- 8. 28.00 ml of 0.670 M potassium carbonate solution is mixed with 15.00 ml of 0.940 M cobalt(III) chloride
- Write a balanced equation for the reaction.

b. Write the total-ionic and net-ionic equations for the above reaction. Total ionic:

Net-lonic:

c. Give the name and mass of any precipitate(s)that may have formed.

Answer: 1.87 g of Co2(CO3)3 precipitate.

Calculate the molar concentration of each ion remaining in solution after the reaction is complete.

Answer:concentration of potassium ions= 0.874 M, concentration of cobalt (III) ions= 0.0372 M concentration of carbonate ions= 0 M

concentration of carbonate ions= 0 M concentration of chloride ions= 0.986 M

SET B:

A solution that contains 12.6 g of a nonvolatile nondissociating solute in 400, g of benzene freezes at 3.6.
 The normal freezing point of benzene is 5.5.*C. What is the molar mass of the solute? (Kp for benzene= 4.96.*C. kg/mole)

Answer: 82 g/mole

Answers To Colligative Properties Worksheet

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