Answer on Question #66940 - Chemistry - Physical Chemistry

Question 1: Consider the equilibrium of AgCl(s) in water. What is the effect of adding KCl? The reaction goes to the left Silver chloride solubility increases The KCl has no effect The reaction goes to the right

**Answer:** answer is "The reaction goes to the left" for reaction  $AgCl_{(s)} = Ag^+_{(aq)} + Cl^-_{(aq)}$  and answer is "The reaction goes to the right" for reaction  $Ag^+_{(aq)} + Cl^-_{(aq)} = AgCl_{(s)}$ 

Question 2: A Brønsted-Lowry acid is defined as a substance that \_\_\_\_\_\_. acts as a proton acceptor decreases  $[H_3O^+]$  when dissolved in water increases  $[OH^-]$  when dissolved in water acts as a proton donor

Answer: acts as a proton donor

Question 3: The pH of a solution is 4.6; what is its pOH?

9.4 4.6 11.6 2.4

**Answer:** 9.4

Question 4: What is the conjugate base of  $HCO_3^-$ ?  $CO_3^{2-}$   $H_2CO_3$   $OH^ HCO_3^+$ 

Answer: CO<sub>3</sub><sup>2-</sup>

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