IONIC EQUILIBRIUM

EXERCISE # 1

- 9. pH = 1 pH = 2 [H'] = 0.1 [H'] = 0.01 V = 50 V = 50 [H'] of mixture is $[H'] = \frac{N_1V_1 + N_2V_2}{V_1 + V_2} \Rightarrow \frac{50(0.1 + 0.01)}{100}$ $[H'] \Rightarrow \frac{0.11}{2} \Rightarrow 0.055$ pH = 1.26
- pH = 7 [H'] = 10⁻², [OH'] = 10⁻⁷ new pH after addition of base pH = 12 [H'] = 10⁻¹² [OH'] 10⁻⁸ [OH'] concentration increase 10⁸ times.
- 13. Relative strength = $\sqrt{\frac{K_{a_1}}{K_{a_2}}} = \sqrt{\frac{3 \times 10^{-4}}{1.8 \times 10^{-6}}} \implies 4:1$
- 16. HCOOH + KOH

 40mL,0.5(M) bool.0.2M HCOOH + H₂O

 after reaction is forms Buffer solution

 [HCOOH] = 10/90 [HCOOK] = 10/90

$$pH = pK_a + log \frac{[sah]}{[acid]}$$
 $pH = pK_a$

- pH = 4 log (1.8) pH = 3.75 19. Let weak acid is HA its sodium salt is NaA
 - $K_{_{N}} = \frac{K_{_{N}}}{K_{_{H}}}$ $K_{_{H}} = CH^{2} \Rightarrow 0.1 \quad (0.03)^{2}$ $K_{_{N}} = \frac{10^{-14}}{9 + 10^{-5}}$ $K_{_{N}} = \approx 1 \quad 10^{-10}$
- 22. CH₃COOH + NaOH → CH₃COONa + H₂O
 100 mL 0.4 M 100 mL 0.2M
 40 20
 After reaction

$$[CH_3COOH] = \frac{20}{250}$$
, $[CH_3COONa] = \frac{20}{200}$
 $pH = pK + los \frac{[salt]}{200}$

 $pH = pK_a + log \frac{[saht]}{[acid]}$ $pH = pK_a$ $[H'] = K_a = 1.8 10^{-8}$ **24.** $CH_aCOONa + HCI \longrightarrow CH_aCOOH + NaCI$ at equivalence the $[CH_aCOOH] = \frac{20}{200} \Longrightarrow 0.1$ $pH = \frac{1}{2}pK_a - \frac{1}{2}logC$ $pH = \frac{1}{2}[5log2 - log10^{-3}]$

 $pH = \frac{1}{2}[6 - \log 2] \Rightarrow pH = 3 - \log \sqrt{2}$

- 28. $pH = pK_a + log \frac{HCO_3^2}{H_2CO_3}$ $7 = 7 - log + log \frac{HCO_3^2}{H_2CO_3} \frac{HCO_3^2}{(H_2CO_3)} = 4$ % $HCO_3^2 = \frac{4}{5} \times 100 \Rightarrow 80 \%$
- 30. $2\text{NaOH} + \text{H}_2\text{PO}_4 \longrightarrow \text{Na}_2\text{PO}_3$ $50\text{mL}_*0.1\text{M} = 60\text{mL}_*0.15$ 0 7.33 $\text{H}_3\text{PO}_4 \Longrightarrow \text{H}^*\text{H}_2\text{PO}_4^-$ [mass H] obtain from first ionization of H_3PO_4] $\text{pH} = \frac{1}{2}\text{pK}_* - \frac{1}{2}\text{logC} = \frac{1}{2}\text{pK}_* - \frac{1}{2}\text{logC}$ = 1.5 + 1.17 = 2.67
- 32. $Mg(NO_3)_x + 2NaF \longrightarrow MgF_x + 2NaNO_3$ 2.5 5 5 2.5 0 0 2.5 $(MgF_x) = \frac{2.5}{35}$ $MgF_x \longrightarrow Mg^{-x} + 2 F$ lonic product
- 41. AgCNS \longrightarrow Ag' + CNS $(1-\delta_1)$ $(\delta+\delta_2)$ δ_1 AgCl \longrightarrow Ag' + Cl $(1-\delta_2)$ $(\delta+\delta_2)$ δ_2 $(K_+)_{A_0CNS} = (\delta_1)(\delta_1 + \delta_2)$ (i) $(K_-)_{A_0Cl} = (\delta_2)(\delta_1 + \delta_2)$ (ii) adde equation (i) and (ii)

$$(\delta_1 + \delta_2)^2 = (K_{sp})_{ApCNS} + (K_{sp})_{ApCI}$$

 $(\delta_1 + \delta_2) = \sqrt{(K_{sp})_{ApCNS} + (K_{sp})_{apC}} = \sqrt{1.0 \times 10^{-67} + 1.7 \times 10^{-68}}$
 $(AgT) = (\delta_1 + \delta_2) = 1.3 \quad 10^{-6} \text{ divide eq. ii from i}$

- $\frac{\|\text{CI}^{-}\|}{\|\text{CNS}^{-}\|} = \frac{\delta_{2}}{\delta_{1}} = \frac{1.7 \times 10^{-10}}{1.0 \times 10^{-12}} \Rightarrow 1.7 \quad 10^{2}$ 47. $\text{IP} > \text{K}_{\text{up}} \qquad \text{I.P.} = (\text{Ca}^{-2}) (\text{F})^{2}$ $\text{I.P.} \Rightarrow (10^{-2}) (10^{-3})^{2} \Rightarrow 10^{-8} \quad \text{IP} > \text{K}_{\text{up}}$
- 53. $pH = p^{16n} + log \frac{ln^{-}}{HI_A}$ 6 = 5 + $log \frac{ln^{-}}{Hln}$ $\frac{ln^{-}}{Hln} = 10$
- 54. At Half way [Hin] = In⁻¹ $pH = 5.5 + log \frac{[salt]}{[acid]} = 5.5 = pK_s + log \frac{[salt]}{[acid]}$ $log \frac{[salt]}{[acid]} = 0.75 \Rightarrow \frac{[salt]}{[acid]} = 5.62$

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