



c) [NaOH] (in mol/L),

$$x \text{ mol NaOH} = 0.02500 \text{ L} \times \frac{0.00690 \text{ mol}}{\text{L}} \times \frac{1 \text{ mol NaOH}}{1 \text{ mol HA}} = 1.73 \times 10^{-4} \text{ mol NaOH}$$

$$[NaOH] = \frac{1.73 \times 10^{-4} \text{ mol}}{0.02135 \text{ L}} = \underline{\underline{0.0081 \text{ M}}}$$

d) if the resulting solution is acidic, basic or neutral at the equivalence point, and

A^- is weakly basic \Rightarrow basic solution

e) an appropriate indicator for the titration.

Phenolphthalein

8. Triethanolamine, a weak monoprotic base, is titrated with HCl. The following data are obtained.

- 20.00 mL of triethanolamine
- 16.30 mL of HCl
- Initial pH of acid = 10.355

– $pH_{\frac{1}{2}} = 7.763$ at addition of 8.15 mL of acid during titration

$$pOH_{\frac{1}{2}} = 14 - 7.763 = 6.237$$

Determine

a) the K_b for triethanolamine,

$$K_b = [OH^-]^2$$

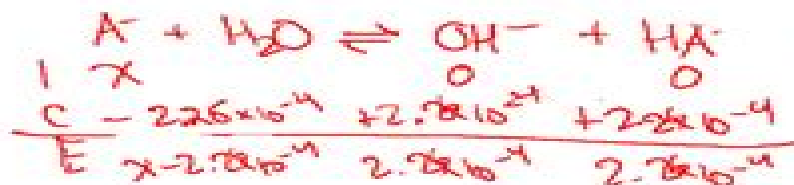
$$= 10^{-pOH_{\frac{1}{2}}}$$

$$= \underline{\underline{5.79 \times 10^{-7}}}$$

THIS should read initial [triethanolamine] \star

b) initial ~~10.355~~ (in mol/L).

$$pOH_{\text{init}} = 14.000 - 10.355 = 3.645$$



$$K_a = \frac{[OH^-][HA]}{[CH_3COOH]} = 5.79 \times 10^{-7}$$

$$x - 2.2 \times 10^{-4} = \frac{(2.26 \times 10^{-4})^2}{5.79 \times 10^{-7}}$$

$$x = 0.0859 + 0.00022$$

$$\underline{\underline{x = 0.0861 \text{ M}}}$$

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Lingjun Ying



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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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