

$$H(l_{(3)} + N_{0}OH_{(nq)}) \rightarrow 1$$

$$H^{\dagger}_{(nq)} + Cl^{\dagger}_{(nq)} + N_{0}^{\dagger}_{(nq)} + OH^{\dagger}_{(nq)}$$

$$HOH \qquad or \qquad N_{0}CH$$

$$H_{1}O(1)$$

$$H(l_{(3)} + N_{\alpha}OH_{(\alpha q)}) \rightarrow H_{\alpha}O_{(1)} + N_{\alpha}Cl_{(\alpha q)}$$
 Molecular Eq.

 $H^{+}_{(\alpha q)} + Cl^{-}_{(\alpha q)} + N_{\alpha}^{+}_{(\alpha q)} + OH^{-}_{(\alpha q)} \rightarrow H_{\alpha}O_{(1)} + N_{\alpha}^{+}_{(\alpha q)} + Cl^{-}_{(\alpha q)}$  borz

 $H^{+}_{(\alpha q)} + OH^{-}_{(\alpha q)} \rightarrow H_{\alpha}O_{(1)}$ 

Strong base week aum

Strong base CH3 (DOH

No OH (ng) + CH3 (DOH

1.0 M 1.0 M (21:W)

1 Mol NoOH 1 Mol CH3 (DOH

W 10% bassown

I mal No OH (ng) OH (ng) CH3 (DOT

Instead of O.1 mal Hob, 1.0 mal of Hod will be produced!!

Masterial of O.1 mal Hob, 1.0 mal of Hod will be produced!!

OH is such a strong base, that it will my off the undescented CH3(WH.

.. The CH300H will shot actives like a strong acid in prosetule sown been

STRONG BASE FORCES A WEAR ACID
INTO COMPLETE DISSOCIATION!

ex. What volume of 0.100 M HCI Sol'n is needed to newholse 25.0 ML of 0.350 M NaOH sol'n?

MONOPROTIL ACID: HC1 + NOOH - H2D6) + NECT

DIPROTIC ACID: HISDY + 2 NOOH - 2 HIO + NEISOY

TRIPROTIC ACIO: H3 PD4 + 3 NAOH - 3 H20 + NA3PD4

for acute hydrests

## TITRATION

- Tifrent (cone. accorded known)
- Sol'n ( Uhknown conc.)
- equivalence point (can be determhed with dise)

A K OH Sol'n is standardized by Hitrofines ascingt sulfane acid. H SO3 NH2. If 34.20 ml of the base are needed to neutralize 0.395 g of the acid, find the molarity of NOH.

4503 NHz (ag) + KOH - HZO(1) + KSD3 NH

0.395 g 4503 WHZ x 1mot x 1 mot 1 mot 4.07 x 1053 mol koH

[KOH] = 4,07 × 10-3 mil 2 0. 119 M KOH (well from = Studend solh)

Pitropen: Colch 1st hougether from colorless to p. A

ex. Titrehen of 6.50-9 sample of a diprofic acid requires 137.5nl of a 0.750 M NaOH sol'n for Complete neutrolization. Determne the molar mass of the acid.

ex. A soln is prepared by dissolving 15.0 g of NeOH in 150.0 ml of 0.23 M mirric acid.

Will the final sol'n be acidic, basic or neutral?

they calculate the conc. of all of the ions present in the soin after the rxn has occurred.