L69 Chem 1A03

DATE

EXP. NUMBER

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LAR PARTNER

re- Lab Questions

12 1) 1349 x 8320 /2338 = 4.90 x 103 11) 24.3-9.25 + 0.328 = 1.54 x 101 11) 6.7 8 x 10-3 M x 23 ml = 6.78 × 10-3 M × 0.023 L = 1.6 × 10 + mol

1. A 15.00 mL stock sample of Hi is diluted to 65 mL. if 18.23 ml of c. 1231 H NCH was required to reach equivalence point, what is the concentration of the stock Hi solution?

At equivalence point, moles well = moles HI HOLES WCH = 0. 01823L x 0. 1231 M = 2.244 x 10-3 mel MeH e. 2.244 x 10-3 moi Hi in 15.00 ml. [HI] = 2.249 x 10-3 mol 6.01506 L = 6.1496 M

Purposes to determine the concentration of an unknown NACH solution using a stock, calibrated sciution of HCi; to learn new te property use volumetric analysis as a qualitative technique.

Nachiae) + Hiller) - Nachiae) + H2014) Procedure : The experiment was carried out as described in experiment one of the chemistry 1AC3, 1EC3 and 1AA3 Labratory Manual.

observations [HCI] = 0.2656 M

10. Com L of Helper Hitration.

= 7 656 x 10-3 mels HC1

Measurement	Tirration	Titration # 2	Titrarien #3
initial Baret Reading (mL)	0.70	0.65	3.10
Final Buret Reading (mL)	26.50	26, 40	28.30
volume Nach Used (mL)	25.80	26, 15	25 20
	e. 1029	6.1016	0.1054

Sample Calculations:

Moles HC1 = Volume HC1 x Molarity HC1 = 10.00 m L x 0. 2656 M = 0.0100 L x 0.2656 M = 2.656 x 10-3 mejes HC]

Moles Hel = Holes NOOH of Equivalence = 2.656x10-5 moles Nach Peint.

Molarity NOCH = # Moles NOCH /Velyma No =2.656 x 10-3 mel /0.0259L = 0.1029 M

Mean Melarity NIGOH = 0.1029+0.1016+0.00 = 0.1033 M

Conclusions The average imean melarity or NOCH was 0.1033 M.

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