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Exp 2: Standanization of Hydrochlanie Acid (Hel) Solution with standard Sodium Hydroxide (NaOH) Solution.

Name of the Method:
Acid based titration.

Experimental Data &

Amount of oxalic acid taken = 0.63 gm

The strength of exalic acid solution = Weight taken (in on) x,

$$=\frac{0.63\times0.1}{0.63}$$
 (N)

= 0.1N

Mable 1 e Standardization of supplied NaOH Jolution against standard exalic acid solution by acid-base

titration.

No of	Vd. of Nooff	Vol. at	Mean		
reading	(in nt)	Initial	Final	Difference	(in ml)
1	20	0.00	8.50	8'50	8.50+8.7
2	70	8.50 17.20	25.80	8.40	+8.60
3	70	1 7/120	1.	0.80	=8.60

The strength of supplied NaoH 5-lution: VNaOH × NNAOH = Voxalic acid × Noxalic acid

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	Made 2: Stanc	landization	of Jupp	olied Hel	Solution				
	against standard by acid-base titration.								
		Vo. of Vol. of North Vol. of Hel (burette reading)							
	neading (in ht)	Initial	Final 1	Difference	Mean (in)				
	1 10		9.70		9.30+9.80				
	1 20 2 20 3 20	19.50	19.50	8,80 8,80	+9.80				
	3 1 20				=9.77				
Calculation o									
(A) The strength of supplied Hel solution :									
VNaOH × NNaOH = Voil. Hel × Noil. Hel to be determined									
NHI. Hel to be determined = $\frac{20\times0.08}{9.77} = 0.081N$									
(B) The strength of conc. Hel solution &									
Vail. Hel X Nail. Hel determined = Veone. Hel token X Neone.									
		(1000 mL)	(10m1)	Heltabe				
Neone. Hel to be determined = 1000 x 0.082 N determined									
Results:									
	Results: (A) The strength of supplied dil. Hel. solution is 0.08N								
-	(B) The strength of conc. Hel solution is 8.21								
1	•								