DOM5	Page No.
Date	

Experiment No. 7. Name:

DETERMINATION OF THE STRGNGTH OF A MIXTURE OF ACETIC ACID AND HYDPOCHLOPIC ACID BY CONDUCTOMETRY

Ain:
To estimate the strength of the mixture of cueto
acid & hydrochyoric acid present in a mixture
by conducto metry.

Principle:

The conductivity of the robution is related to
the mobility of ions in which in turn is
solved with the ring of the wins. When a
mintur of aids whe a strong aid (Hes, La
week aid (CH; COOH) is Titraley against a strong
base (NaOH), Had first reach followed by
(11, COOH) when the litration of strong aid
and strong base is carried out there is a
decrease in conductivity as highly mobile
hydrogen wins (15th are replaced by roduin

when the whole strong aid is consumed base reach with weak aid and conductively

Teacher's Signature;

Experiment NoName :
Expanniance
. 1 1
unserver as unionized weak aid becomes
the ionized and ralt.
C13, COO & + Na++ON - C13, COD + W+ + Na++OH-
After both the aith are consumed, there is a
yer bor me and are commented from the
steep impear in conductivity is due to the
Part moring hudroside ion from the burette
fast morning hydroxid ion from the burette solution. From this amount of the base
consumed for an aid and in turn the
consumed for an aid and in turn, the
WINDUNG OF WAR ALL TO THE TOTAL OF THE TOTAL
PROCEDURG:
The given minteur of aid in deluted to
or grown to the

The given minture of acide in delicited too 100 ml wring distilled water in standard plank, 10 ml of this morde up solution is prefetted out in clean blaker and 100 ml of distilled water is added. The conductivity, cell is dipped wito the test solution and titrated against NaON (0.5 ml internal) with proper tirring. The conductance is measured after each 0.5 ml appliture of NaOH applicable neutralization, the amount of acides for strong in the given missture is determined based on the volume of NaOH consumes.

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	Nama	6310 36	THE KILL	Date	Page No.
Experiment No	Ndille	(100 00/1	S Carlo		
	1	-1 -10	/	0. 60	4
and	weak al	id are dell	1-	by pro	ning
ag	raph be	ween condu	mane a	na mod	ume
of	base as	Ided, who	re fun	and for	Las
corre	sponds	to strong to weak a	any an	a ena	pon
corr	uponon	to weak a	111 280 8 1	17. (1733) 1. (1733)	7,274
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8.000		0.16	PF-E	3.8	12
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	+ 50	0.56	18-11	0/04/2	(3/4.st
4.84		6.97	98.8	5.8	.8
RESUL	7 -> 5.0	04.9	67.9	4.8	-1
1.12.00	10	0.36	95.9	9.8	, ol
	sbength	of Her prese		e whole	given
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10-13-6	0.2 6	M. O.	3,315	4.0	194 AL
2. The	shengen	of CH, COOD	present.	n the w	hole of
given	solubor		MARINE	1 9 4 5	15.1
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. 5 -86	:0.2 -:	/ da.d //	EX-P/	Ocol	12.
5.5	0.2	6.54	9.82	10.2	The sales
a 914	· det	(1.0	4.95	~ fiot ~	A PARTY
. a friend	3.0	61.0	10.05	9.01	162
1.0	0.2	10.00 miles	Wol	8.010	0018
5-0	02	11.00 -0	42.91	0.11	444
· A	- AL 16				
					and the second second

OBSGRVATION -.

7; bration	6/w	mixbre	of	Buids	4	Na 01.	1 (Bosne	-31
P. Sugar	AMERICA	1-1080 1	Lake	I berton	Ash	adak o	1 2 6	

	The Manuel Manuel	when the way the wall
52 NO	· Volume of Nowob adsed (ml)	Conductume (vr-1).
1	0.0	PROCEDURE +
2	clow of observing to	1. NV813 1 7.2 10 929
3	Mus where on man	MA 18 64 M
The state of the	12 2 trust 1-5 mules	september P. W need to
Market El	8 0.24 0 2 marines	1150 M. 03. 2 CO 1010
6	Conference 25	M too 3 9 may veres
7	diene was returned	3.6 miles
8	3.5	7.2 Number
9	4.0	V-MVJ-8
10		not up 0.4h Colum
James al		1 162:4 love (
	The during 5:5	The state of the s
13 1	A NUMBER OF A STATE OF THE STAT	Cin (2.4 universe
1.0	M I F C	AA '
	1 11	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	my and and	10 minus
	in harmy (a - of 15)	toll or 2 tall show
	My He O.8 day when	Atom with Colum
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20	a box 9.5 of birds	5.4 S.4V
u	10.0	61 15-6 many
22/	sounded 10.5 my	6.8
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	Marie 11 Marie Marie	6.0
14.1	11.5	6.4
		P.7.0.

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	25	TIME A. 30 Up	12-0	NOT 14 6.7 13130
4-3	26	Ne 10 87 1000 C	12.5 M. M. M. W.	WA 2007-1021300
	27		13.0	7.5
	20		13.5	7-9
	29	The state of	14-0	8.3
ale	30	of the sauchi	14.5 oct 211	10.8 Smal
A	31	phont he a	1500 Sudition	school 9 liss

CALCULATION - D.

Sbength of 1201
Molume of mintare = 20mL

Normality of 1201 = 0.0625 (N,)

Wolume of Naov = 2.5 ml (V,).

Mormality of Naov = 0.5N.

Sbury M of 1201 = 2.580.5/20 = 2.580.5/20 = 0.06251

5 pring to al C13 c001 -

Molume of mention = 20ml

Molume of Naou: 8 ml (Vr)

Mormality of Naou: 0:5

Mreages of CH3cool; 20.5 × (Vr. v.)

To

2 8x0.5 2 0.2000 N

