A) 0.431	f CaCO ₁ (100 g/mol) in th B) 0.861	C) 0.10e	D) 0 215
A) One of the p C) Both acid an	should be heated before the roducts is volatile d base are weak	he titration because B) The analyte is inso D) The titration is fast	luble
100 ml with disti two end points a	illed water, aliquot of 25.0 r re respectively at 11.9 and 2	ns carbonate, bicarbonate, or ml was titrated with 0.123 M I	hydroxide is dissolved and diluted ICI. The pH curve illustrates that
Q13: The sample A) NaOH & NaI	ICO ₃ B) Na ₂ CO ₃ & Na		CO ₁ D) Na ₂ CO ₂ alone
A) 62 1	B) 15.5	C) 26 2	D) 42.8
20.5 ml, the volu	me (ml) at the second end p A) 41.0	B) 30 8	c) 20 5 D) 10
Que A sample co	ontaining oxalate weighing : with 16.3 ml of 0 0315 M KN	2.124 g was dissolved in acid. MnO ₄	and diluted to 100 ml, aliquot of :
2 MpOires +5	C10, 100 + 10 11 100 - 21	Mn2 (80) * 10 CO2(8) * 8 H2C)
A) 80.9	st of Na ₂ C ₂ O ₄ 1134 g/mol) is B113.0	C) 32.4	D) 63.5
Another 100 0 m	l of water was titrated with	ith 6 60 ml of 0.0103 M AgN 5 60 ml of 0.0916 M HCl to per million Cl (35 5 g/mol) C) 48 2	O, to reach the chromate end porteach methyl orange end point. D) 513
	kalinity of water measured	as part per million CaCO3 (100 g/mol) is
A) 513	B) 410	C) 229	D) 256
	that used as standard solu B) AgNO ₃	tion and self-indicator is C) K ₂ CrO ₄	D) Na ₂ CO ₂

Carolon = 0.0916×5.60×16³× $\frac{1}{2}$ × $\frac{1}{2$

 $\frac{6.2159}{1009/mol} = mol CaCo_3 = 2.15 \times 16^3$ $mol Cacl_2 = mol CaCo_3$ $Cacl_2 = 7.15 \times 16^3 \times 111 \times 100$ 0.5009 = 47.7 %

Q131 VI= 11-9ml V2= 201ml

$$\Delta V = V = V = 8.2 \text{ ml}$$

$$V_1 > \Delta V \implies \text{ The Sample 15}$$

$$C | NaoH and Na2 (03)$$

- MILLIX VI = mol Hol = mol OH + (not co,2)

- 0123 x 11.9x6 - 1.4637 mol of + (not co,2)

- MILLIX DV = mol Hol = mol H2Co3 (2005)

- MILLIX DV = mol Hol = mol H2Co3 (2005)

mal Na2 (03 = 1.4637x163+ 1.0086x163

Naccose = 2.4723×10mx 1062 ×100

= 26 2 -> The answer is



A) 22.3	percent of	79 6 NaCl (58 5 g/mol) 132 3	C) 47.7 in the sample is C) 48.4	D) 14)
12.19.5		Take of the second	in at	D) Na ₂ CO ₁ New of the Ca ²⁺ in the solution is obtained was titrated with 0 terms M
\ sample of	0.40-		C) N2C1O.	D) Na ₂ CO ₁
Q _{2n-21}	0,	B) AgNO ₃	tion and self-indicator ta	D) 256
Qiv The se	olution that us	B) 410	C) 229	(100 g mol) is
4) 513	oral alkalinity	of water measured	45 part per - 111	D) 513
Amother I	on aml of wat	er was titrated with	th n 66 ml of 0 0103 M Az	NOs to reach the chromats and point
Qtza	of Military of	· ·	C1324	10) 63 5
A) \$0.9	percent of Na	10 (1 0)	Mn. 100 . 1000 . 4 MH	O 100 ml, sliquot of 25
ml was to	mple containin	mile constant	2 124 g was disaptored in act	C) 20.5 D) 16.3 d and diluted to 100 ml, aliquot of 25
	A 1 4 1 D			D) 42 8 we illustrates that the first end point is
Qie An	imple of sodiu		C) 26 2	D) 42 8
A) NaOI	sample is I & NaHCO, mass percent	B) Na ₂ CO ₃ & N ₂ of Na ₂ CO ₃ (106 g/m B) 15.5	iol) in the sample is	a;CO, D) Na;CO; alone
two end	points are resp	ater, aliquot of 25 0 ectively at 11 9 and	its carbonate, bicarbonate, c ml was titrated with 0 123 N 20 I ml	or hydroxide is dissolved and diluted to I HCI. The pH curve illustrates that the
Q13-14	f (00 m m f		The second second	
C) Both	solution shou of the product acid and base	S IN VINIATIO	the titration because B) The analyte is in D) The titration is fa	D) 0.215
A) 0.4	31	B) 0 861	he tablet is	(82)
I he wein	he fal . For a	4. of 0.09913 M	100 0 mL of 0 1006 M solu solution of NaOH	

Q151 AJ 41.0 Answer -> Nazlos - VI = DV V1 = 20 5 ml V2 - ? أسيل طريق أنه نظرح كل التمايلات عدم ٧١ والحداير اسىء بيفلع ماريخ الطرح اسة 20 عبو الحواب الصح V41.6-205 = 20.5 (3 16/ MXV=mol x = 160 x 134 x 134 x 160 x 134 x 160 x G.0315 X 16.3×163× 5 × 100 × 134 × NazCeOn40= -X100 2.1249 = 32.39 ~ 32.4 %. Answer TC1

G17/ mol CT = mol Ag Ng = MXV 0 0165x 6.60x 163 = 6798 x 163 mol Ppmct = 6.798X 163 X35.5 x 163 56 x 163 = 48.2 Answer

Q8/[]2/3
G9/ [[] 3/11
Q101 a aretic acid
GIV Total mal Hal = Mx V = 0 01006 x 100x 103 = 0 01006 mal
-mai Ha (unReacted) = mai NaoH NXV 60013X 14.71 X 163 = 1.4582 X 163 mai
- mai Hal (Reacted) = 0.0006- 1.4582 x 163
mol (acos = 12 mol Hel Reacted F.wt = 4.3009×163 × 25 × 100 =
wtroco;= 0.1675 ~ 0.108

@12/ B) the analyte is Insoluble

Answer is C

