Date <u>27-10-21</u>	_
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ESTIMATION OF AMOUNT OF CHLORINE IN A WATER SAMPLE	
* AIM: To estimate the amount of chlorine in a water san by Mohn's method.	nple
* PRINCIPLE:  1 It is an example of precipitation reaction. The reaction between chloride and silver nitrate is direct as	ion
AgNO <sub>3</sub> + NaCl -> AgCl + NaNO <sub>3</sub> Ag+ + Cl -> AgCl  -> K <sub>2</sub> CrO <sub>4</sub> is the indicator. Leaction with K <sub>2</sub> CrO <sub>4</sub> with  AgNO <sub>3</sub> is as follows:	th
2AgN03 + K, CrU4 -> Ag, CrU4 + ZFNO3.	
* PROCEDURE:  1) Titration 1 - Standardisation of Agrico solution.  20 ml of standard Nacl solution (N/20) is pipett out into a clean conical plack.  1 ml of 2% kg Cr O4 indicatod is added to it. The turns yellow in colour.	tol.
burette.  During each addition of AgNO2, the content in the	cre cre
At the end point, the yellow colour changes to brownish led colour. The titration is repeated, concordant values.	for
Teacher's Signature	

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.01	titro	tion 2: Estimati	o. + 11	10:10				
1	The gricery cheloride soletic is and with 100 ml in a							
	titration 2: Estimation of Chloride  The grien chloride solution is made upto 100 ml in a standard flask.							
-)	Exactly 20 ml of this solution is pipetted out into a							
	Exactly 20 ml of this solution is pipetted out into a a clean conical flask.							
->	To this solution Int of 2% K, CrO4 indicator is added.							
->	To this solution Int of 2% k, CrO4 indicator is added. It is titrated against standardised AgNO, solution from the birette. The titration is repeated for concordance.							
	the burette. The titration is repeated for concordance.							
7	chloride and hence its amount is calculated.							
	chloride and helice its amount is calculated!							
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111	TAO	RVATIONS:	- ation	1 A-ND- 1				
(1)	TABLE 1: (Standardization of AgNO2)							
	S.No.	Volume of Nall	burette 1	Reading (ml)	Concordant	Indicator		
		solution (ml)	Initial	final	Concordant value (me)			
		10	0	9.1	9	K2 604		
	2	10	0	9.1	49.1	K2 Croy		
	3	10	0	9.1		Kz CrO4		
				<u>-</u> 0				
12)	TABI	E2: CEstimation	of Chlor	rde)	×6			
	S.No.		Initial		Value (ml)	Indicator		
_	-	solution (ml)	O	8.6	Vaine (me)	hin		
	1	10	0	8.6	48.6	K2Croy K2Croy		
	2	10	0	8.6	700	V ( -O		
-	3	10				Kycroy		
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