4. MOLARITY & TITRATION

UNIT 1 REACTIONS IN AQUEOUS SOLUTIONS CH40S MR. WIEBE

















Itration Trial # Final Volume NaOH (mL) Initial Volume NaOH (mL) Volume NaOH Used (mL) WITHIN 0.20 ml EACH OTHE 1 12.2 0.0 Initial Volume NaOH (mL) Initial Volume NaOH (mL) Imital Volume NaOH Used 2 23.7 12.2 Imital Volume NaOH (mL) Imital Volume NaOH Used Imital Volume NaOH Used 3 35.1 23.7 Imital Volume NaOH Used to Neutralize the HCI (mL): Imital Volume NaOH Used to Neutralize the HCI (mL): Imital Volume NaOH Used to Neutralize the HCI (mL): Imital Volume NaOH Used to Neutralize the HCI (mL): Imital Volume NaOH Used to Neutralize the HCI (mL):			Table 1: The Titration of 10.0 mL of HCl(aq) with 0.100 M NaOH			
1 12.2 0.0 2 23.7 12.2 3 35.1 23.7	Titration Trial #	Final Volume NaOH (mL)	Initial Volume NaOH (mL)	Volume NaOH Used (mL)	WITHIN 0.20 mL EACH OTHER	
2 23.7 12.2 3 35.1 23.7 Average Volume of NaOH Used to Neutralize the HCI (mL):	1	12.2	0.0			
3 35.1 23.7 Average Volume of NaOH Used to Neutralize the HCI (mL): Intervention	2	23.7	12.2		IGNORE OTHE	
Average Volume of NaOH Used to Neutralize the HCI (mL):	3	35.1	23.7			
	Average Volume	e of NaOH Used to Neutraliz	te the HCI (mL):			
					-	

SUMMARY PROBLEM

One commercial method of peeling potatoes is to soak them in sodium hydroxide solution for a short time, then spray off the loosened peel. The [NaOH] is normally in the range of 3M to 6M. To ensure the range is consistant, periodic titrations are done on the lye. In one titration, it was found that 45.7 mL of 0.500M H_2SO_4 was needed to neutralize a 20.0 mL sample of NaOH. What was the [NaOH]?