Chemistry 11 Lab Report 7 Titration of an Unknown Acid

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Block: 1

Purpose (1 mark)	
In this lab we will be preforming a titra	ation using a standard solution to
<u>Introduction</u> (5 marks)	
	a solution a titration was used. A titration dard solution as well as a known volume of
(Draw a diagram)	
Materials	
(3 marks)	
Chemicals	Equipment
 mol/L NaOH Solution Unknown mol/L HCl Solution Phenylethane indicator solution 	 ml burette ml pipette Erlenmeyer flask Phenylethane indicator solution

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To	perform	the	titration,	the	following	steps	were	used.

Step 1: The 25mL burette was filled with 0.100mol/L NaOH standard solution

Step 2: Using a pipette, 5.0 mL of.....

Step 3:

Step 4:

Step 5:

...

Data (4 marks)

Concentration of NaOH: _____

	Trial 1	Trial 2	Trial 3	Trial 4
Initial Reading of				
Burette (mL)				
Final Reading of				
Burette (mL)				
Volume of NaOH				
Used (mL)				

Average volume of NaOH used:	(fi	rom 1	the	closest	3	results	3)

Calculations (5 marks)

Your calculations need to be neat and organized for how you found the concentration of the unknown acid. Show all workings

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Discussion (5 marks)

Include the following in your discussion:

- Full chemical equation of the reaction including phase symbols
- discuss factors of the experiment that may not have been planned or only occurred on your specific trial.
- Were there any errors that may have changed your results?
- Were the results you obtained what you expected?

Results (2 marks)

Briefly, in 1 or 2 sentences state your findings. In this c	case, wh	at was your	concentration of
unknown acid and how did you arrive at your answer.			

Using the titration procedure, it was discovered that the unknown solution of acid used had a concentration of	