

CHEMISTRY

Lab 2: Acid-base titrations

1. Pour 5 ml of 1M HCl solution in a conical flask
2. Add about 10 ml of deionized water and a few drops of phenolphthalein indicator
3. Titrate with 1M solution of NaOH until you observe a color change.
4. Repeat 3 times and find the average volume of titre. Write down all observations you have made (e.g. color change)
5. Write down the reaction equation and determine the concentration of HCl
6. Find the uncertainty of the concentration of HCl
7. Compare the concentration you found with the concentration of 1M and find the percentage error
8. Repeat steps 1 to 7 using H₂SO₄ of 1M concentration