

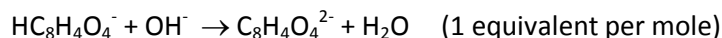
Abstract Writing Exercise

(Standardization of a Base Solution)

Write an abstract from the following procedure and experimental results. The abstract should contain the main purpose, the method(s) used, and the final result.

Procedure

1. Clean a 250 mL Erlenmeyer flask and then rinse with DI water.
2. On the analytical balance, weigh between 1.0-1.4 grams of potassium phthalate (KHP) or $\text{KHC}_8\text{H}_4\text{O}_4$ (203 g/mol) to the nearest 0.0001 g on a piece of weighing paper. Record the exact mass.
3. Transfer the KHP to the 250 mL flask and add about 50 mL of DI water and swirl to dissolve. The solids must be completely dissolved. Add 2-3 drops of phenolphthalein indicator.
4. Fill the buret with the NaOH solution. Record the initial volume readings and titrate the sample to the faint pink end-point. Record the final volume readings.
5. Repeat the procedure for a total of 2 trials.
6. Calculate the normality of the NaOH solution for each trial and average these results.



$$N_b = \frac{\text{equivalents NaOH}}{\text{volume of NaOH}}$$

Results

Trial	grams of KHP	mL of NaOH
1	1.0124	24.84
2	1.0037	26.73

Report the average normality for the base solution.