

The Vinegar Mix-up Titration Worksheet

Standardization Data Table

	Trial 1	Trial 2	Trial 3
Mass, KHP, g			
Final Volume of NaOH in the buret, mL			
Initial Volume of NaOH in the buret, mL			
Volume of NaOH added, mL			

Molarity NaOH (average) _____ M

Unknown Concentration Data Table

Unknown Letter _____

	Trial 1	Trial 2	Trial 3
Volume of Acid, mL			
Final Volume of NaOH in the buret, mL			
Initial Volume of NaOH in the buret, mL			
Volume of NaOH added, mL			

Concentration of Unknown (average) _____ M

Concentration of Unknown (average) _____ %

Unknown Concentration Data Table (optional)

Unknown Letter _____

	Trial 1	Trial 2	Trial 3
Volume of Acid, mL			
Final Volume of NaOH in the buret, mL			
Initial Volume of NaOH in the buret, mL			
Volume of NaOH added, mL			

Concentration of Unknown (average) _____ M

Concentration of Unknown (average) _____ %

Post-Lab Questions and Calculations

1. From the standardization data, calculate the molarity of the sodium hydroxide solution for each trial. Average the values and enter the average in the Standardization Data Table.

