

Exp. Number	Experiment Title/ Subject		
	Acid-Base Titrations		
Name	Kevin Zhang	Lab Partner	Course
			Section

11

HCl + NaOH measurements

Trial 1:

HCl initial: 22.9 mL

NaOH added: 24.4 mL

Trial 2

HCl added: 23.6 mL

NaOH added: 23.8 mL

Trial 3

HCl added: 22.5 mL

NaOH added: 22.2 mL

Average:

HCl: 23 mL

NaOH: 23.47

unknown F

Unknown F + NaOH measurements

Trial 1

unknown: 24.5 mL

NaOH: 35.4 mL

Trial 2

unknown: 20.0 mL

NaOH: ~~28.9 mL~~ 29.0 mL

Trial 3

unknown: 20.5 mL

NaOH: 29.0 mL

Average:

unknown: 21.67

NaOH: 31.13

Calculations

$$[\text{NaOH}] = \frac{23 \text{ mL} \cdot 0.10 \text{ M}}{23.47 \text{ mL}} = 0.0980 \text{ M}$$

$$[\text{acetic unknown}] = \frac{31.13 \text{ mL} \cdot 0.0980 \text{ M}}{21.67 \text{ mL}} = 0.1408 \text{ M}$$

Student's Signature	Date	Instructor/TA Signature	Date
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