# Calorimetry: Heat of Reaction

# PRE-LABORATORY ASSIGNMENT

The following calculations must be completed in your notebook prior to attending pre-lab lecture. Read the entire experiment before beginning the assignment.

A student performed the experiment outline in Part B, and obtained the data below.

Reagent	Volume (mL)	Conc (M)	Tinitial (°C)
NaOH	52.1	1.10	23.8
HCI	45.4	0.875	24.1

 $T_{\text{final}} = 29.3^{\circ}\text{C}$ 

Using this data, calculate the following values, showing all work. Refer to the calculations section of this experiment for explanations of the values. Be careful with signs, units and significant figures!

- a) Tinitial
- b) m<sub>soth</sub>
- c)  $\Delta T_{soln}$
- d) queut
- e) Clearly state which reagent is limiting and show all calculations to support your conclusion.

# **Lab 35 Heats Of Reaction Answers**

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