

Many neutralization reactions are exothermic. In **part 3** we will determine the heat of neutralization of hydrochloric acid with sodium hydroxide according to the reaction



This reaction takes place in the same calorimeter as above and we can summarize the heat flow the same way as we do in part 2: $-q_{\text{rxn}} = q_{\text{water}} + q_{\text{calorimeter}}$

Finally, we will measure the heat of fusion of ice in **part 4**. To accomplish that we add ice, initially at 0 °C, to the calorimeter with warm or room temperature water. The warmth of the water will be distributed to the

Part 3: Enthalpy of Neutralization Reaction

Combine about 25 mL of 3M NaOH with about 25 mL of 3 M HCl. Record volumes and temperatures.

	Trial 1	Trial 2	Trial 3
Volume of 3M HCl	24.0 mL	25.3 mL	25.8 mL
Volume of 3M NaOH	25.1 mL	27.1 mL	26.4 mL
T _i of solution	21.5 °C	22.6 °C	23.1 °C
T _f of solution	34.0 °C	33.2 °C	34.8 °C
ΔH_{rxn} in J/g			

Average ΔH_{rxn} in J/g: _____

Average ΔH_{rxn} in kJ/mol: _____

The standard enthalpy change for this reaction is -57.0 kJ/mol. Determine percent error in the experiment.

Percent error: _____

Neutralisation Exothermic Reaction Results Volume

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"O" Level Study Guide - Chemistry Quite Easily Done , Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision Robby Caspeelee, Luc Taerwe, Dan Frangopol, 2018-10-31 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28 31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

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