

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: _____

Exothermic Reaction Neutralisation Results

Judd E. Hollander



Exothermic Reaction Neutralisation Results:

, *NTSE-NMMS/ OLYMPIADS Champs Class 7 Science/ Social Science Vol 1* Disha Experts, 2017-09-01 Middle School is the most appropriate age when children can learn and focus on lot of other skills that will last for life NTSE NMMS OLYMPIADS Champs Class 7 Science Social Science Vol 1 is an attempt to guide and prepare students for NTSE Olympiad examinations The book will not only prepare the students for these examinations but will also help in developing a good aptitude and problem solving skills The Vol 1 covers the Scholastic part Sciences and Social Sciences Science is divided into Physics Chemistry and Biology whereas Social Science is divided into History Civics and Geography The book provides for each chapter Key Concepts followed by Multiple Choice Questions Exercises In order to generate interest interesting facts have been provided along with the theory Each chapter provides 2 levels of Exercises based on the level of difficulty The Exercises contain Simple MCQs Matching based MCQs statement based MCQs feature based MCQs multiple answer based MCQs passage based MCQs picture based MCQs etc The detailed solutions to the MCQ s are provided at the end of each chapter This book will really prove to be an asset for Class 7 students as they hardly find any material which can help them in building a strong foundation Organic Chemistry, Energetics, Kinetics and Equilibrium Brian Chapman, Alan Jarvis, 2003 The revised edition of the highly successful Nelson Advanced Science series for A Level Chemistry Organic Chemistry Energetics Kinetics and Equilibrium provides full content coverage of Unit 2 of the AS and A2 specifications **Study Materia (2023-24 RRB JE)** YCT Expert Team , 2023 24 RRB JE Study Material Solved Papers **Conceptual Chemistry Class XI Vol. I** S K Jain, A book on Conceptual Chemistry *Fast Chemical Reactions in Turbulent Flows* Rustam Ya Deberdeev, 2013-09-02 This book describes the fundamentals of fast liquid phase chemical reactions and the principles of their scientific foundation technical implementation and industrial application of new technologies In addition the equipment required to perform these reactions in a turbulent mode in the chemical petrochemical and petroleum industries is also discussed The macrokinetic approach has been developed with consideration of the diffusion hydrodynamics and heat transfer processes Due to the advancement of fundamental knowledge equations of practical engineering importance have been obtained for the calculations of mass and heat transfer processes carried out in conditions of high turbulence and developed for the implementation in fast chemical reactions involving the synthesis of low molecular weight products and polymers New methods for controlling the molecular characteristics of polymers have been developed based on the tailored regulation of the hydrodynamics of the reactive mixture flow Typical processes have been used as model examples to reveal the influence of turbulence on the behaviour of fast chemical reactions used for the synthesis of low molecular weight products in single phase and two phase reactive systems Brand new tubular devices have been developed with the following characteristics compact size high productivity and a quasi perfect mixing operation mode in turbulent flows These devices are subdivided into cylindrical shell and tube zone and diffuser confusor designs Original solutions are proposed for the

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