

Experiment 14

Data and Calculations: Heat Effects and Calorimetry

A. Specific Heat

	Trial 1		Trial 2
Mass of stoppered test tube plus metal	<u>45.393</u> g	→	<u>45.406</u> g
Mass of test tube and stopper	<u>22.525</u> g	→	<u>22.539</u> g
Mass of calorimeter	<u>3.978</u> <u>47.173</u> g	→	<u>8.608</u> g
Mass of calorimeter and water	<u>45.798</u> g		<u>48.295</u> g
Mass of water	<u>39.175</u> g		<u>39.687</u> g
Mass of metal	<u>22.868</u> g	→	<u>22.868</u> g
Initial temperature of water in calorimeter	<u>21.2</u> °C		<u>21.9</u> °C
Initial temperature of metal (assume 100°C unless directed to do otherwise)	<u>99.8</u> °C	→	<u>100.3</u> °C
Equilibrium temperature of metal and water in calorimeter	<u>25.3</u> °C		<u>24.5</u> °C
$\Delta t_{\text{water}} (t_{\text{final}} - t_{\text{initial}})$	_____ °C		_____ °C
Δt_{metal}	_____ °C		_____ °C
$q_{\text{H}_2\text{O}}$	_____ J		_____ J
Specific heat of the metal (Eq. 3)	_____ J/g°C		_____ J/g°C
Approximate molar mass of metal	_____		_____
Unknown metal #			<u>26Y</u>

B. Heat of Solution

Mass of calorimeter plus water	<u>56.898</u> g
Mass of beaker	<u>29.309</u> g

(continued on following page)

Heat Effects And Calorimetry Lab Purpose

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Heat Effects And Calorimetry Lab Purpose:

Laboratory Manual for World of Chemistry Melvin D. Joesten, David O. Johnston, John T. Netterville, James L. Wood, 1987 Laboratory Exercises for Preparatory Chemistry Kathy Dodds Tyner, 1994-06 Laboratory Exercises for Preparatory Chemistry is the perfect complement to a one semester preparatory chemistry laboratory course Tyner's manual emphasizes the application of chemistry and the principles of science to everyday life The labs are directly applicable to the real world and often contain supplemental assignments that illustrate an application *It's A Chemical World* Sophia Vash, Frank Gasparro, Daniel Zibello, 2025-07-22 Chemistry is all around us it's a chemical world With this lab manual students and teachers alike will be prepared to conquer the wonders difficulties and fascinating fields of chemistry Featuring 17 carefully crafted chemistry laboratory experiments 14 lab demonstrations and five special experiments this book will provide you with a well rounded chemistry experience delving into multiple reaction types gas properties titrations calorimetry electrochemistry and more Finally it should be noted that these lab exercises have been well tested over the years These exercises can be used by students in either a regular course or an honors course Annual Report of the Pennsylvania Agricultural Experiment Station ,1922 **Active Pharmaceutical Ingredients** Stanley Nusim, 2016-04-19 To successfully bring an Active Pharmaceutical Ingredient API to market many steps must be followed to ensure compliance with governmental regulations This book is an unparalleled guide to the development manufacturing and regulation of the preparation and use of APIs globally This second edition brings readers up to date with the quality control regulations for APIs that have been added or amended since the first edition These updates help ensure that pharmaceutical professionals and drug manufacturers meet the established and required guidelines set forth by the US and international regulatory industries Biocalorimetry Margarida Bastos, 2016-06-22 Connecting past present and future instrument development and use Biocalorimetry Foundations and Contemporary Approaches explores biocalorimetry's history fundamentals methodologies and applications Some of the most prominent calorimeter developers and users share invaluable personal accounts of discovery discussing innovative techniques a **Chemical Abstracts** ,1917 **Report summaries** United States. Environmental Protection Agency, 1983 **Scientific and Technical Aerospace Reports** ,1995-08 **An Evaluative Report on the National Measurement Laboratory, National Bureau of Standards** ,1987 **Toxicology Research Projects Directory** ,1976-10 An indexed directory of current research project abstracts in toxicology and related fields **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 *Nuclear Science Abstracts* ,1975-04 **Fusion Energy Update** ,1982 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1973 First multi year cumulation covers six years 1965 70 *Energy Research Abstracts* ,1990 **Technical Abstract Bulletin** Defense Documentation Center (U.S.), 1964 Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.), 1960 U.S. Government Research Reports ,1962

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Unveiling the Magic of Words: A Review of "**Heat Effects And Calorimetry Lab Purpose**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Heat Effects And Calorimetry Lab Purpose**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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