

Lab Session 9, Experiment 8: Calorimetry, Heat of Reaction

Specific heat is an intensive property of a single phase (solid, liquid or gas) sample that describes how the temperature of the sample changes as it either absorbs or loses heat energy. Specific heat is generally a function of temperature, but, to a good approximation, it can be treated as being constant for a single phase over a moderate temperature range. The table below lists the specific heats at 25°C of liquid water and selected metal solids.

Substance	Specific Heat, J/(g°C)
water (liquid)	4.184
aluminum (solid)	0.901
chromium (solid)	0.448
copper (solid)	0.386
iron (solid)	0.450
lead (solid)	0.129
nickel (solid)	0.443
tin (solid)	0.217
zinc (solid)	0.386

The Zeroth Law of Thermodynamics states: "If two samples of matter, initially at different temperatures (T_H and T_C , respectively), are placed in thermal contact, heat will be lost by the hotter sample (T_H) and gained by the cooler one (T_C). This exchange of heat will take place until both samples achieve the same final temperature, T_F , so that $T_H > T_F > T_C$." The First Law of Thermodynamics states: "During heat exchange (or, as we shall see, during a chemical reaction), heat is neither created nor destroyed." Thus, heat lost equals heat gained, if the heat exchange can be sufficiently insulated from the surroundings so that not very much heat escapes to the surroundings. A vessel that provides adequate heat insulation from its surroundings, and in which temperature changes are measured in order to determine specific heats (or heats of chemical reactions) is called a **calorimeter**. A perfect calorimeter absorbs no heat from the solution that it

contains, nor loses any heat to the surroundings. No calorimeter is perfect, however. A typical calorimeter used in freshman chemistry labs is made of two nested Styrofoam cups, and looks like the one shown in Figure 9.1.

If we place m_{metal} grams of a hot metal, at a Celsius temperature T_H , into a nearly perfect calorimeter, along with m_{water} grams of water, at a lower Celsius temperature T_C , then the metal and the water will thermally equilibrate at a final intermediate Celsius temperature, T_F .

Since the heat lost by the metal is equal to the heat gained by the water within the calorimeter, the following equation holds (m is in the units g, T is in the units °C and sp ht is in the units J/g °C):

$$[(m_{\text{metal}}) \times (T_H - T_F) \times (\text{sp ht}_{\text{metal}})] = [(m_{\text{water}}) \times (T_F - T_C) \times (\text{sp ht}_{\text{water}})] .$$

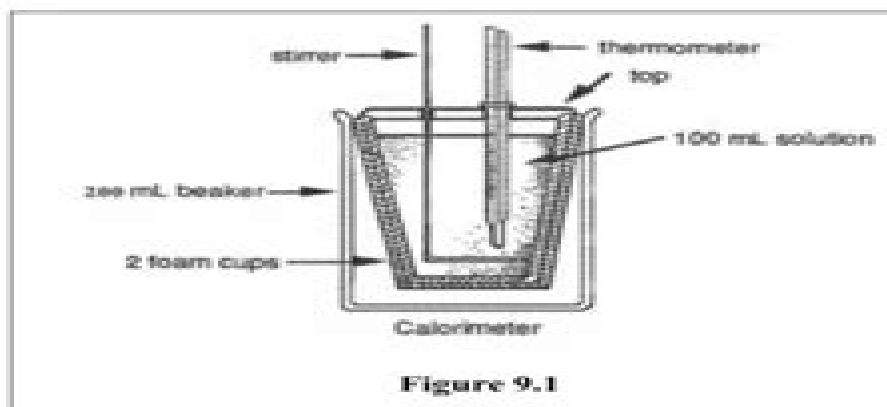


Figure 9.1

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A Loxley



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Report of Investigations ,1962 **Scientific and Technical Aerospace Reports** ,1995-05 Annual Report of the Pennsylvania Agricultural Experiment Station ,1922 **Energy** , **Preliminary Report on the Thermodynamic Properties of Selected Light Element and Some Related Compounds** United States. National Bureau of Standards,1967
Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.),1960 **Applied Mechanics Reviews** ,1998 **Energy: a Continuing Bibliography with Indexes** ,1982 **Journal of the American Chemical Society** American Chemical Society,1929 Proceedings of the Society are included in v 1 59 1879 1937 *Annual Report of the Pennsylvania Agricultural Experiment Station* Pennsylvania State College. Agricultural Experiment Station,1916 RLE Progress Report Massachusetts Institute of Technology. Research Laboratory of Electronics,1996 **Energy Research Abstracts** ,1995 **Nuclear Science Abstracts** ,1975 **Catalog of Technical Reports** United States. Dept. of Commerce. Office of Technical Services, **Experiment Station Record** United States. Office of Experiment Stations,1912
National Library of Medicine Current Catalog National Library of Medicine (U.S.),1973 First multi year cumulation covers six years 1965 70 **The Physics of Metals and Metallography** ,1971 **Industrial & Engineering Chemistry** ,1924 Report of the Henry Phipps Institute Henry Phipps Institute,1928 *Annual Report on Animal Nutrition and Allied Sciences* ,1962

Heat Effects And Calorimetry Lab Conclusions: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. Heat Effects And Calorimetry Lab Conclusions : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Heat Effects And Calorimetry Lab Conclusions : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Heat Effects And Calorimetry Lab Conclusions : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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