

Practice Problems

Friday, 27 August 2021 3:15 PM

Heat Capacity and Calorimetry

[1]

How many calories are required to heat each of the following from 15°C to 65°C: (a) 1.0 g water; (b) 5.0 g Pyrex[®] glass; (c) 20 g platinum? (The specific heat of the glass is 0.20 cal/g · K; of platinum, 0.032 cal/g · K.)

Ans. (a) 50 cal; (b) 50 cal; (c) 32 cal

[2]

The ability to convert between calories and joules is extremely important. Express the answers in Problem 7.19 in joules and in kJ.

Ans. (a and b) 209.2 J and 0.2092 kJ; (c) 133.9 J and 0.1339 kJ

[3]

The combustion of 5.00 g of coke raised the temperature of water of 1.00 kg of water from 10°C to 47°C. Calculate the heating value of coke.

Ans. 7.4 kcal/g or 31 kJ/g

[4]

Assuming that 50% of the heat is useful, how many kilograms of water at 15°C can be heated to 95°C by burning 200 L of methane, CH₄, measured at S.T.P.? The heat of combustion for methane is 891 kJ/mol.

Ans. 12 kg water

[5]

The heat of combustion of ethane gas, C₂H₆, is 1561 kJ/mol. Assuming that 60% of the heat is useful, how many liters of ethane (S.T.P.) must be burned to supply enough heat to convert 50 kg of water at 10°C to steam at 100°C?

Ans. 3150 L

[6]

How much heat is required to change 10 g of ice at 0°C to steam at 100°C? The heat of vaporization of water at 100°C is 540 cal/g (2259 J/g).

Ans. 7.2 kcal or 30 kJ

[7]

A boiler that supplies a steam turbine used in an electric power plant must raise the temperature of water from the ambient temperature passing through a physical state change and then to live (very hot) steam. How much energy (kcal and kJ) would be required to raise 15,000 L of water from 25°C to steam at 175°C? (steam requires 0.5 cal/g · K)?

Ans. 9,800 kcal or 41,000 kJ

[8]

A Styrofoam[™] coffee cup serves as an inexpensive calorimeter for measurements that do not require high accuracy. One gram of KCl(s) was added to 25.0 ml of water in such a cup at 24.33°C. It dissolved completely and quickly with gentle stirring. The minimum temperature reached was 22.12°C. Estimate the ΔH° of the heat of solution of KCl in kJ/mol. You may assume the solution has the same heat capacity as water and that the heat capacity of the cup and thermometer need not be considered.

Ans. $\Delta H^\circ_{\text{solution}} = +17.2 \text{ kJ/mol}$

Thermochemistry Intro Answers

Madan R.L.



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Basic Thermochemistry in Materials Processing Gabriel Plascencia, David Jaramillo, 2017-02-28 This book provides the reader with some thermochemistry notes The intention is to provide a simple easy to understand text which serves as a complimentary material to more complex books It also provide students and those beginning in the field with several application examples used in different areas of materials processing

The book presents fully solved problems some quite often found in major metallurgical operations **Introduction to Chemistry** Amos Turk, 2013-07-15 Introduction to Chemistry is a 26 chapter introductory textbook in general chemistry This book deals first with the atoms and the arithmetic and energetics of their combination into molecules The subsequent chapters consider the nature of the interactions among atoms or the so called chemical bonding This topic is followed by discussions on the nature of intermolecular forces and the states of matter This text further explores the statistics and dynamics of chemistry including the study of equilibrium and kinetics Other chapters cover the aspects of ionic equilibrium acids and bases and galvanic cells The concluding chapters focus on a descriptive study of chemistry such as the representative and transition elements organic and nuclear chemistry metals polymers and biochemistry Teachers and undergraduate chemistry students will find this book of great value *Physical Chemistry* Mr. Rohit Manglik, 2024-07-02 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Fundamentals of Chemistry: A Modern Introduction** Frank Brescia, 2012-12-02 Fundamentals of Chemistry Third Edition introduces the reader to the fundamentals of chemistry including the properties of gases atomic and molecular weights and the first and second laws of thermodynamics Chemical equations and chemical arithmetic are also discussed along with the structure of atoms chemical periodicity types of chemical bonds and condensed states of matter This book is comprised of 26 chapters and begins with a historical overview of chemistry and some terms which are part of the language of chemists Separation and purification are covered in the first chapter while the following chapters focus on atomic and molecular weights stoichiometry the structure of atoms and types of chemical bonds The molecular orbital MO theory of bonding galvanic cells and chemical thermodynamics are considered next Separate chapters are devoted to MO theory of covalent and metallic bonding orbital hybridization intermolecular forces acids and bases ionic equilibrium calculations and polymers and biochemicals This monograph is intended for chemistry students Structure/Reactivity and Thermochemistry of Ions Pierre Ausloos, Sharon G. Lias, 2012-12-06 This volume presents the proceedings of a 1986 Advanced Study Institute entitled Structure Reactivity and Thermochemistry of Ions held at Les Arcs France June 30 to July 11 1986 The format of a NATO Institute is ideally suited to in depth communications between scientists of diverse backgrounds Particularly in the field of ion physics and chemistry where on going research involves physicists physical chemists and organic chemists who use a variety of experimental and theoretical techniques it is found that in the relaxed but stimulating atmosphere of a NATO ASI each professional group provides unique insights leading to a better definition and solution of problems relating to the properties of gas phase ions This book presents chapters based on the lectures presented at the Les Arcs ASI The participants took the initiative to organize a number of specialized workshops informal discussion groups which considered

questions or problem areas of particular interest The accounts of these sessions which are also included in this book make stimulating reading and include considerable useful information This Advanced Study Institute is the fourth in a series of NATO sponsored institutes devoted to the chemistry and physics of ions in the gas phase The first in 1974 in Biarritz France focussed on Interactions between Ions and Molecules Chemical Energetics, Equilibria and Functional Group Organic Chemistry - I Mr. Rohit Manglik,2024-03-02 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Kaplan MCAT General Chemistry Review* Kaplan,2015-07-07 More people get into medical school with a Kaplan MCAT course than all major courses combined Now the same results are available with Kaplan s MCAT General Chemistry Review This book features thorough subject review more questions than any competitor and the highest yield questions available The commentary and instruction come directly from Kaplan MCAT experts and include targeted focus on the most tested concepts plus more questions than any other guide Kaplan s MCAT General Chemistry Review offers UNPARALLELED MCAT KNOWLEDGE The Kaplan MCAT team has spent years studying every document related to the MCAT available In conjunction with our expert psychometricians the Kaplan team is able to ensure the accuracy and realism of our practice materials THOROUGH SUBJECT REVIEW Written by top rated award winning Kaplan instructors All material has been vetted by editors with advanced science degrees and by a medical doctor EXPANDED CONTENT THROUGHOUT While the MCAT has continued to develop this book has been updated continuously to match the AAMC s guidelines precisely no more worrying if your prep is comprehensive MORE PRACTICE THAN THE COMPETITION With questions throughout the book and access to one practice test Kaplan s MCAT General Chemistry Review has more practice than any other MCAT General Chemistry book on the market ONLINE COMPANION Access to online resources to augment content studying including one practice test The MCAT is a computer based test so practicing in the same format as Test Day is key TOP QUALITY IMAGES With full color 3 D illustrations charts graphs and diagrams from the pages of Scientific American Kaplan s MCAT General Chemistry Review turns even the most intangible complex science into easy to visualize concepts KAPLAN S MCAT REPUTATION Kaplan gets more people into medical school than all other courses combined UTILITY Can be used alone or with other companion books in Kaplan s MCAT Review series **Introductory Chemistry Problems: The Chemistry And Physics Behind The Numbers** Michael E Green,2025-07-18 The essential point of the book is to show students in Introductory Chemistry classes how to obtain answers that are at least reasonable and to realize when there must have been an error because the answer falls outside the range of possible values Students often leave ridiculous answers because they simply plug into equations they have memorized correctly or incorrectly They have not learned to think about the meaning of the numbers that appear in their calculations This book attempts to show students how to correct this

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Introduction to General Chemistry Hippolyte Engène Copaux, 1920 **Density Functionals** Erin R.

Johnson, 2015-05-23 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field **Combustion Science and Engineering** Kalyan Annamalai, Ishwar K. Puri, 2006-12-19

Students embarking on their studies in chemical mechanical aerospace energy and environmental engineering will face continually changing combustion problems such as pollution control and energy efficiency throughout their careers Approaching these challenges requires a deep familiarity with the fundamental theory mathematics and physical concepts of combustion Based on more than two decades of teaching experience Combustion Science and Engineering lays the necessary groundwork while using an illustrative hands on approach Taking a down to earth perspective the book avoids heavy mathematics in the first seven chapters and in Chapter 17 pollutants formation and destruction but considers molecular concepts and delves into engineering details It begins with an outline of thermodynamics basics of thermochemistry and chemical equilibrium descriptions of solid liquid and gaseous fuels chemical kinetics and mass transfer and applications of theory to practical systems Beginning in chapter 8 the authors provide a detailed treatment of differential forms of conservation equations analyses of fuel combustion including jet combustion and boundary layer problems ignition flame propagation interactive and group combustion pollutant formation and control and turbulent combustion In addition this

textbook includes abundant examples illustrations and exercises as well as spreadsheet software in combustion available for download This software allows students to work out the examples found in the text Combustion Science and Engineering imparts the skills and foundational knowledge necessary for students to successfully approach and solve new problems

Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e (As per CBCS) Madan R.L.,2022 This textbook has been designed to meet the needs of B Sc Honours Second Semester students of Chemistry as per the UGC Choice Based Credit System CBCS Maintaining the traditional approach to the subject this textbook lucidly explains the basics of Organic and Physical Chemistry Important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures **Chemistry** Charles E. Mortimer,1986

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