

Name _____ Date _____ Class _____

17

THERMOCHEMISTRY

SECTION 17.1 THE FLOW OF ENERGY—HEAT AND WORK (pages 505–510)

This section explains the relationship between energy and heat, and distinguishes between heat capacity and specific heat.

► Energy Transformations (page 505)

- What area of study in chemistry is concerned with the heat transfers that occur during chemical reactions? thermochemistry
- Where the use of energy is concerned (in a scientific sense), when is work done?
Work is done when a force is used to move an object.
- Circle the letter next to each sentence that is true about energy:
 - ☒ Energy is the capacity for doing work or supplying heat.
 - ☒ Energy is detected only because of its effects.
 - ☐ Heat is energy that transfers from one object to another because they are at the same temperature.
 - ☒ Gasoline contains a significant amount of chemical potential energy.
- Circle the letter next to each sentence that is true about heat.
 - ☒ One effect of adding heat to a substance is an increase in the temperature of that substance.
 - ☐ Heat always flows from a cooler object to a warmer object.
 - ☒ If two objects remain in contact, heat will flow from the warmer object to the cooler object until the temperature of both objects is the same.

► Exothermic and Endothermic Processes (pages 506–507)

- What can be considered the “system” and what are the “surroundings” when studying a mixture of chemicals undergoing a reaction? Write your answers where indicated below.

System: The mixture of chemicals itself is considered the system.

Surroundings: Everything but the mixture of chemicals is the surroundings, but practically speaking, the immediate vicinity of the system.

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Ronald James Gillespie



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Mathematical Methods for Physicists George Brown Arfken, George B. Arfken, Hans J. Weber, Frank E. Harris, 2013 Table of Contents Mathematical Preliminaries Determinants and Matrices Vector Analysis Tensors and Differential Forms Vector Spaces Eigenvalue Problems Ordinary Differential Equations Partial Differential Equations Green's Functions Complex Variable Theory Further Topics in Analysis Gamma Function Bessel Functions Legendre Functions Angular Momentum Group Theory More Special Functions Fourier Series Integral Transforms Periodic Systems Integral Equations Mathieu Functions Calculus of Variations Probability and Statistics **Physical Chemistry** Robert J. Silbey, Robert A. Alberty, George A. Papadantonakis, Mounqi G. Bawendi, 2022-06-15 Ever since Physical Chemistry was first published in 1913 it has remained a highly effective and relevant learning tool thanks to the efforts of physical chemists from all over the world Each new edition has benefited from their suggestions and expert advice The result of this remarkable tradition is now in your hands *Modern Electrochemistry* John O'M. Bockris, Amulya K.N. Reddy, 1973-10-31 7 The Electrified Interface 7 1 Electrification of an Interface 7 1 1 The Electrode Electrolyte Interface The Basis of Electrodics 7 1 2 New Forces at the Boundary of an Electrolyte 7 1 3 The Interphase Region Has New Properties and New Structures 7 1 4 An Electrode Is Like a Giant Central Ion 7 1 5 The Consequences of Compromise Arrangements The Electrolyte Side of the Boundary Acquires a Charge 7 1 6 Both Sides of the Interface Become Electrified The So Called Electrical Double Layer 7 1 7 Double Layers Are Characteristic of All Phase Boundaries 7 1 8 A Look into an El Introduction to Quantum Mechanics in Chemistry Mark A. Ratner, George C. Schatz, 2001 This book serves as a self study guide to familiarize users with the crucial language of modern chemistry science It provides a background of electronic structure programs and includes worked examples in problem solving and computer exercises For computational chemists materials scientists and chemical engineers who want to learn more about their field without unnecessary complexity detail or formalism *Polymorphism in Pharmaceutical Solids* Harry G. Brittain, 2018-11-12 Using clear and practical examples Polymorphism of Pharmaceutical Solids Second Edition presents a comprehensive examination of polymorphic behavior in pharmaceutical development that is ideal for pharmaceutical development scientists and graduate students in pharmaceutical science This edition focuses on pharmaceutical aspects of

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