Chapter 17 Thermochemistry Study Guide

17.1 – 17.2 Thermochemical Equations

Hanan Chamistry

- Make the following conversions:
 a. 444 cal to joules = 1.86 x 10³ J
 - b. 1.8 kJ to joules = 1.8 x 103 J
 - c. 0.45 kJ to calories = 1.1 x 10² cal
- Classify each of these processes as endothermic or exothermic:
 - a. condensing steam exo
 b. burning alcohol exo
 c. evaporating alcohol endo
 d. baking a potato endo
- The specific heat capacity for silver is 0.24 J/g°C. Calculate the energy required to raise the temperature of 150.0 g Ag from 273 K to 298 K. Calculate the molar heat capacity of silver.

Energy: $q = (150.0)(.24)(298-273) = 9.0 \times 10^2 J$

Molar heat capacity: (0.24 J/g°C)(107.87 g/mol Ag) = 26 J/mol

 It takes 585 J of energy to raise the temperature of 125.6 g Hg from 20.0°C to 53.5°C. Calculate the specific heat capacity and the molar heat capacity of Hg.

Specific heat capacity: C = q/m\Delta t = 585/(125.6)(53.5-20) = 0.139 J/g°C

Molar heat capacity: (0.139 J/g°C)(200.59 g/mol Hg) = 27.9 J/mol

 A 46.2-g sample of copper is heated to 95.4°C and then placed in a calorimeter containing 75.0 g water at 19.6°C. The equilibrium temperature in the calorimeter is 21.8°C. Calculate the specific heat capacity of copper; assuming that all the heat lost by the copper is gained by the water.

C = 0.203 J/g°C

 A 15.0-g sample of nickel metal is heated to 100.0°C and dropped into 55.0 g of water, initially at 23.0°C. Assuming that all the heat lost by the nickel is absorbed by the water; calculate the final temperature of the nickel and the water. The specific heat of nickel is 0.444 J/g°C.

 $-15.0(.444)(T_f - 100.0) = 55.0(4.184)(T_f - 23.0)$ $-6.66T_f + 666 = 230.12T_f - 5292.76$ $5958.76 = 236.78 T_f$ $-15.0(.444)(T_f - 23.0)$ $-15.0(.4184)(T_f - 23.0)$ $-15.0(.4184)(T_f - 23.0)$

7. Chloe was running bath water and realized it was too hot. If she has 20.0 L of water in the tub at 95°C and then adds 15.8 L of water at 75°C, what will the final temperature of the water be?

 $-20(T_f - 95) = 15.8(T_f - 75)$ $-20T_f + 1900 = 15.8 T_f - 1185$ $3085 = 35.8 T_f$

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Table of Contents Ch 17 Thermochemistry Section Review Answers

- 1. Understanding the eBook Ch 17 Thermochemistry Section Review Answers
 - The Rise of Digital Reading Ch 17 Thermochemistry Section Review Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Ch 17 Thermochemistry Section Review Answers
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ch 17 Thermochemistry Section Review Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ch 17 Thermochemistry Section Review Answers
 - Personalized Recommendations
 - Ch 17 Thermochemistry Section Review Answers User Reviews and Ratings
 - Ch 17 Thermochemistry Section Review Answers and Bestseller Lists

- 5. Accessing Ch 17 Thermochemistry Section Review Answers Free and Paid eBooks
 - o Ch 17 Thermochemistry Section Review Answers Public Domain eBooks
 - Ch 17 Thermochemistry Section Review Answers eBook Subscription Services
 - Ch 17 Thermochemistry Section Review Answers Budget-Friendly Options
- 6. Navigating Ch 17 Thermochemistry Section Review Answers eBook Formats
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 - Ch 17 Thermochemistry Section Review Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ch 17 Thermochemistry Section Review Answers
 - Highlighting and Note-Taking Ch 17 Thermochemistry Section Review Answers
 - Interactive Elements Ch 17 Thermochemistry Section Review Answers
- 8. Staying Engaged with Ch 17 Thermochemistry Section Review Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Ch 17 Thermochemistry Section Review Answers
- 9. Balancing eBooks and Physical Books Ch 17 Thermochemistry Section Review Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ch 17 Thermochemistry Section Review Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ch 17 Thermochemistry Section Review Answers
 - Setting Reading Goals Ch 17 Thermochemistry Section Review Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ch 17 Thermochemistry Section Review Answers
 - Fact-Checking eBook Content of Ch 17 Thermochemistry Section Review Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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