

11

THERMOCHEMISTRY—HEAT AND CHEMICAL CHANGE

PRACTICE PROBLEMS

In your notebook, solve the following problems.

SECTION 11.1 THE FLOW OF ENERGY

Use the 3-step problem-solving approach you learned in Chapter 4.

1. How many kilojoules of energy are in a dietary Calorie that contains 320.0 Calories?
2. What is the specific heat of a substance that has a mass of 25.0 g and requires 525.0 calories to raise its temperature by 15.0 °C?
3. Suppose 180.0 g of $\text{H}_2\text{O}(l)$ absorbs 1255.0 J of heat. What is the corresponding temperature change? The specific heat capacity of $\text{H}_2\text{O}(l)$ is $2.1 \text{ J/g} \cdot ^\circ\text{C}$.
4. How many joules of heat energy are required to raise the temperature of 180.0 g of aluminum by 120.0 °C? The specific heat capacity of aluminum is $0.90 \text{ J/g} \cdot ^\circ\text{C}$.

SECTION 11.2 MEASURING AND EXPRESSING HEAT CHANGES

1. A student mixed 75.0 mL of water containing 0.75 mol HCl at 25 °C with 75.0 mL of water containing 0.75 mol of NaOH at 25 °C in a foam cup calorimeter. The temperature of the resulting solution increased to 35 °C. How much heat in kilojoules was released by this reaction?

$$C_{\text{soln}} = 4.18 \text{ J/g} \cdot ^\circ\text{C}$$

2. Calculate the amount of heat involved when 15.0 g of $\text{Ca}(\text{OH})_2$ forms from the reaction of $\text{CaO}(s) + \text{H}_2\text{O}(l)$.

$$\text{CaO}(s) + \text{H}_2\text{O}(l) \longrightarrow \text{Ca}(\text{OH})_2(s) \quad \Delta H = -65.2 \text{ kJ}$$
3. Calculate the amount of heat produced when 22.4 g of methane, CH_4 , burns in an excess of air, according to the following equation.

$$\text{CH}_4(g) + 2\text{O}_2(g) \longrightarrow \text{CO}_2(g) + 2\text{H}_2\text{O}(l) \quad \Delta H = -890.3 \text{ kJ}$$
4. Balance the following equation then calculate the enthalpy change for the reaction given that the standard heat of combustion of $\text{NH}_3(g)$ is -226 kJ/mol .

$$\text{NH}_3(g) + \text{O}_2(g) \longrightarrow \text{NO}(g) + \text{H}_2\text{O}(g)$$

SECTION 11.3 HEAT IN CHANGES OF STATE

1. Calculate the amount of heat needed to melt 25.0 g of ice at 0 °C. Express your answer in kilojoules.
2. Calculate the amount of heat needed to convert 180.0 g of liquid water at 18 °C to steam at 100.0 °C.
3. How much heat is released when 2.543 mol $\text{NaOH}(s)$ is dissolved in water?

$$\text{NaOH}(s) \xrightarrow{\text{H}_2\text{O}(l)} \text{Na}^+(aq) + \text{OH}^-(aq) \quad \Delta H_{\text{soln}} = -445.1 \text{ kJ/mol}$$
4. Calculate the amount of heat needed to convert 98 g of ice at $-24 \text{ }^\circ\text{C}$ to water at 18 °C. The specific heat capacity of $\text{H}_2\text{O}(s)$ is $2.1 \text{ J/g} \cdot ^\circ\text{C}$.

Thermochemistry Heat And Chemical Change Answers Test

Shasha Hu



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Table of Contents Thermochemistry Heat And Chemical Change Answers Test

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

5. Accessing Thermochemistry Heat And Chemical Change Answers Test Free and Paid eBooks
 - Thermochemistry Heat And Chemical Change Answers Test Public Domain eBooks
 - Thermochemistry Heat And Chemical Change Answers Test eBook Subscription Services
 - Thermochemistry Heat And Chemical Change Answers Test Budget-Friendly Options
6. Navigating Thermochemistry Heat And Chemical Change Answers Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermochemistry Heat And Chemical Change Answers Test Compatibility with Devices
 - Thermochemistry Heat And Chemical Change Answers Test Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermochemistry Heat And Chemical Change Answers Test
 - Highlighting and Note-Taking Thermochemistry Heat And Chemical Change Answers Test
 - Interactive Elements Thermochemistry Heat And Chemical Change Answers Test
8. Staying Engaged with Thermochemistry Heat And Chemical Change Answers Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermochemistry Heat And Chemical Change Answers Test
9. Balancing eBooks and Physical Books Thermochemistry Heat And Chemical Change Answers Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermochemistry Heat And Chemical Change Answers Test
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Thermochemistry Heat And Chemical Change Answers Test
 - Setting Reading Goals Thermochemistry Heat And Chemical Change Answers Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Thermochemistry Heat And Chemical Change Answers Test
 - Fact-Checking eBook Content of Thermochemistry Heat And Chemical Change Answers Test
 - 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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