

## Thermochemistry Practice Problems

KEY

### Flow of Energy:

1. How many kJ of energy are in a donut that contains 200.0 Calories?

$$\frac{200 \text{ Cal}}{1 \text{ Cal}} \times \frac{4.184 \text{ J}}{1 \text{ Cal}} = \boxed{836.8 \text{ kJ}}$$

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?

$$\begin{aligned} m &= 25.0 \text{ g} \\ q &= 525.0 \text{ cal} \\ \Delta T &= 15.0^\circ\text{C} \end{aligned}$$

$$\begin{aligned} q &= mc\Delta T \\ 525.0 \text{ cal} &= (25.0 \text{ g})(c)(15.0^\circ\text{C}) \\ c &= \boxed{1.40 \frac{\text{cal}}{\text{g}\cdot^\circ\text{C}}} \end{aligned}$$

3. Suppose 100.0 g of H<sub>2</sub>O(s) absorbs 1255.0 J of heat. What is the corresponding temperature change? The specific heat capacity of H<sub>2</sub>O(s) is 2.1 J/g°C.

$$\begin{aligned} q &= 1255.0 \text{ J} \\ m &= 100.0 \text{ g} \\ c &= 2.1 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}} \end{aligned}$$

$$\begin{aligned} q &= mc\Delta T \\ 1255.0 \text{ J} &= (100.0 \text{ g})(2.1 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}})(\Delta T) \\ \Delta T &= \boxed{6.0^\circ\text{C}} \end{aligned}$$

4. How many joules of heat energy are required to raise the temperature of 100.0 g of aluminum by 120.0°C? The specific heat capacity of aluminum is 0.90 J/g°C.

$$\begin{aligned} m &= 100.0 \text{ g} \\ c &= 0.90 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}} \\ \Delta T &= 120.0^\circ\text{C} \end{aligned}$$

$$\begin{aligned} q &= mc\Delta T \\ q &= (100.0 \text{ g})(0.90 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}})(120.0^\circ\text{C}) \\ q &= \boxed{11,000 \text{ J}} \end{aligned}$$

5. In reference to #4, what is the molar heat capacity of aluminum?

$$\left(0.90 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}}\right) \left(26.98 \frac{\text{g}}{\text{mol}}\right) = \boxed{24 \frac{\text{J}}{\text{mol}\cdot^\circ\text{C}}}$$

### Measuring and Expressing Heat Changes:

6. 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<sub>water</sub> = 4.18 J/g°C)?

$$\begin{aligned} q &= mc\Delta T \\ m &= 150.0 \text{ g} \end{aligned}$$

$$\begin{aligned} c &= 4.184 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}} \\ \Delta T &= 10^\circ\text{C} \end{aligned}$$

$$\begin{aligned} q &= (150.0 \text{ g})(4.184 \frac{\text{J}}{\text{g}\cdot^\circ\text{C}})(10^\circ\text{C}) \\ q &= \boxed{6300 \text{ J}} \end{aligned}$$

7. Calculate the amount of heat evolved when 150 g of water are reacted with excess calcium according to the following thermochemical equation:



$$\frac{150 \text{ g H}_2\text{O}}{18.02 \text{ g H}_2\text{O}} \times \frac{1 \text{ mol H}_2\text{O}}{2 \text{ mol H}_2\text{O}} \times \frac{-65.2 \text{ kJ}}{1 \text{ mol H}_2\text{O}} = \boxed{-270 \text{ kJ}; \text{ exothermic}}$$

# Thermochemistry Practice Problems With Answers



**ACT**

## **Thermochemistry Practice Problems With Answers:**

**Survival Guide to General Chemistry** Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific, detailed, step-by-step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples, and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step-by-step process for problem solving, whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid-base reactions, which often persists through working with acid-base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshmen in STEM fields.

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[Chemistry: 1,001 Practice Problems For Dummies \(+ Free Online Practice\)](#) Heather Hattori, Richard H. Langley, 2014-04-14 Practice makes perfect and helps deepen your understanding of chemistry. Every high school requires a course in chemistry, and many universities

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General Chemistry Workbook Daniel C. Tofan,2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

**Ebbing** Darrell D. Ebbing,1993 *The Official ACT Prep Guide, 2018* ACT,2017-06-09 The only guide from the ACT organization the makers of the exam revised and updated for 2017 and beyond The Official ACT Prep Guide 2018 Edition Revised and Updated is the must have resource for college bound students The

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