

Chapter 17: Thermochemistry*Section 1: The Flow of Energy – Heat and Work*

1. What is thermochemistry? **The study of the energy changes that occur in changes of state or during chemical reactions.**
2. Heat always flows from a **warmer** object to a **cooler** object.
3. Given that $1 \text{ cal} = 4.184 \text{ J}$:
 - a. How many calories are in 325.9 J ? **77.89 cal**
 - b. How many J are in 34.7 cal ? **145.18 J**
4. What is the Law of Conservation of Energy (aka the First Law of Thermodynamics)? **States that in chemical and physical processes, energy is neither created nor destroyed – it is transferred or conserved.**
5. In an exothermic reaction:
 - a. Heat is **released** / absorbed
 - b. q is **positive** / **negative**
 - c. ΔH is **positive** / **negative**
 - d. Heat is a **reactant** / **product**
6. In an endothermic reaction:
 - a. Heat is **released** / **absorbed**
 - b. q is **positive** / **negative**
 - c. ΔH is **positive** / **negative**
 - d. Heat is a **reactant** / **product**
7. Diagram **A** represents an exothermic reaction, whereas diagram **B** represents an endothermic reaction:
8. What is the difference between heat capacity and specific heat capacity? **Specific heat is the amount of energy to increase the temperature of 1g of substance by 1°C**
9. The temperature of a 34.1 g sample of a substance increases from 29°C to 51°C when the sample absorbs 912 J of heat. What is the specific heat of the substance? **$1.126 \text{ J/g}^\circ\text{C}$**
10. When 867 J of heat are added to 9.3 g of a substance at STP, the temperature increases from 0°C to 14°C . What is the specific heat of the substance? **$6.66 \text{ J/g}^\circ\text{C}$**

Chapter 17 Thermochemistry Worksheet Answers

Christian G. Meyer



Chapter 17 Thermochemistry Worksheet Answers:

Chapter 17 Thermochemistry Worksheet Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Chapter 17 Thermochemistry Worksheet Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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