

Chapter 5: Thermochemistry

Problem Set with Answers

1. A system receives 425 J of heat and delivers 425 J of work to its surroundings. What is the change in internal energy of the system (in J)?

Answer: 0 J

2. Complete combustion of 1.0 metric ton of coal (assuming pure carbon) to gaseous carbon dioxide releases 3.3×10^{10} J of heat. Convert this energy to (a) kilojoules; (b) kilocalories

Answer: (a) 3.3×10^7 kJ (b) 7.9×10^6 kcal

3. Classify the following processes as exothermic or endothermic: (a) freezing of water; (b) boiling of water; (c) digestion of food; (d) a person running; (e) a person growing; (f) wood being chopped; (g) heating with a furnace.

Answer: (a) exothermic (b) endothermic (c) exothermic (d) exothermic
(e) endothermic (f) endothermic (g) exothermic

4. Calculate q when 12.0 g of water is heated from 20 °C to 100 °C.

Answer: 4.0×10^3 J

5. A 295-g aluminum engine part at an initial temperature of 3.00°C absorbs 85.0 kJ of heat. What is the final temperature of the part (c of Al = 0.900 J/g·K)?

Answer: 323°C

6. Ethylene (C_2H_4) is the starting material for the preparation of polyethylene. Although typically made during the processing of petroleum, ethylene occurs naturally as a fruit-ripening hormone and as a component of natural gas.
(a) The heat of reaction for the combustion of C_2H_4 is -1411 kJ/mole. Write a balanced thermochemical equation for the combustion of C_2H_4 .
(b) How many grams of C_2H_4 must burn to give 70.0 kJ of heat?

Answer: (a) $\text{C}_2\text{H}_4 (\text{g}) + 3\text{O}_2 (\text{g}) \rightarrow 2\text{CO}_2 (\text{g}) + 2\text{H}_2\text{O} (\text{l})$; $\Delta H_{\text{rxn}} = -1411 \text{ kJ}$
(b) 1.39 g C_2H_4

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Puja Mehta



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Table of Contents Thermochemistry Questions And Answers

1. Understanding the eBook Thermochemistry Questions And Answers
 - The Rise of Digital Reading Thermochemistry Questions And Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermochemistry Questions And Answers
 - 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 Questions And Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermochemistry Questions And Answers

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

- Fact-Checking eBook Content of Thermochemistry Questions And 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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astm a283 carbon steel vs sae aisi 1020 steel - Jan 14 2023

web may 30 2020 both astm a283 carbon steel and sae aisi 1020 steel are iron alloys there are 31 material properties with values for both materials properties with values for just one material 1 in this case are not shown for each property being compared the top bar is astm a283 carbon steel and the bottom bar is sae aisi 1020 steel

1020 aisi astm uns worldwide equivalent grades steel - Sep 22 2023

web cross reference table for steel 1020 aisi astm uns and its european equivalent c22e 1 1151 en european equivalent grade for special steel 1020 aisi astm uns c22e 1 1151 chemical composition and properties of european equivalents en for 1020 usa aisi astm uns c22e 1 1151