- 2. The following questions relate to sulfur and some of its compounds.
  - (a) Write the balanced equation for the combustion of S<sub>s</sub>(s) to form SO<sub>s</sub>(g).
  - (b) Calculate the volume of O<sub>2</sub>(g), measured at 1.00 atm and 298 K, that is required to completely combust a 500.0 g sample of pure S<sub>s</sub>(s).
  - (c) A student claims that the combustion of S<sub>n</sub> is an oxidation-reduction reaction. Justify the claim by identifying the oxidation numbers of sulfur and oxygen both before and after the reaction.
  - (d) In the box below, draw a Lewis electron-dot diagram for one valid resonance structure of SO<sub>3</sub>.



- (e) Based on the diagram you drew in part (d), what is the approximate oxygen-sulfur-oxygen bond angle in SO<sub>2</sub>?
  SO<sub>2</sub> can be oxidized to form SO<sub>3</sub> according to the following equation.
  2 SO<sub>2</sub>(g) + O<sub>2</sub>(g) → 2 SO<sub>3</sub>(g) ΔH° = −198 kJ/mol<sub>222</sub>
- (f) Is the value of ΔS° for the reaction represented above positive or negative? Justify your answer.

$$2 SO_2(g) + O_2(g) \rightarrow 2 SO_3(l)$$

- (g) Is the magnitude of ΔH° for the reaction to form SO<sub>3</sub>(I), represented above, greater than, less than, or equal to the magnitude of ΔH° for the reaction to form SO<sub>3</sub>(g)? Justify your answer.
- (h) Based on the information above, how does the thermodynamic favorability of the reaction change as the temperature of the reaction system is decreased? Justify your answer.

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# **Table of Contents 13 Ap Exam Extended Response Answers Chemistry**

- 1. Understanding the eBook 13 Ap Exam Extended Response Answers Chemistry
  - The Rise of Digital Reading 13 Ap Exam Extended Response Answers Chemistry
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 13 Ap Exam Extended Response Answers Chemistry
  - 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 13 Ap Exam Extended Response Answers Chemistry
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 13 Ap Exam Extended Response Answers Chemistry
  - Personalized Recommendations
  - 13 Ap Exam Extended Response Answers Chemistry User Reviews and Ratings
  - 13 Ap Exam Extended Response Answers Chemistry and Bestseller Lists
- 5. Accessing 13 Ap Exam Extended Response Answers Chemistry Free and Paid eBooks
  - 13 Ap Exam Extended Response Answers Chemistry Public Domain eBooks
  - 13 Ap Exam Extended Response Answers Chemistry eBook Subscription Services
  - 13 Ap Exam Extended Response Answers Chemistry Budget-Friendly Options
- 6. Navigating 13 Ap Exam Extended Response Answers Chemistry eBook Formats

- o ePub, PDF, MOBI, and More
- 13 Ap Exam Extended Response Answers Chemistry Compatibility with Devices
- 13 Ap Exam Extended Response Answers Chemistry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 13 Ap Exam Extended Response Answers Chemistry
  - Highlighting and Note-Taking 13 Ap Exam Extended Response Answers Chemistry
  - Interactive Elements 13 Ap Exam Extended Response Answers Chemistry
- 8. Staying Engaged with 13 Ap Exam Extended Response Answers Chemistry
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 13 Ap Exam Extended Response Answers Chemistry
- 9. Balancing eBooks and Physical Books 13 Ap Exam Extended Response Answers Chemistry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 13 Ap Exam Extended Response Answers Chemistry
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 13 Ap Exam Extended Response Answers Chemistry
  - Setting Reading Goals 13 Ap Exam Extended Response Answers Chemistry
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 13 Ap Exam Extended Response Answers Chemistry
  - Fact-Checking eBook Content of 13 Ap Exam Extended Response Answers Chemistry
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
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