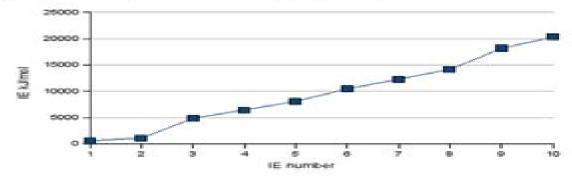
#### Chemguide - questions

#### FURTHER IONISATION ENERGIES

You may need a copy of the Periodic Table for some of these questions

- The second ionisation energy of sodium is 4560 kJ mol<sup>-1</sup>. Write the equation which represents the reaction occurring during the second ionisation energy of sodium.
- The four successive ionisation energies of beryllium are: 900 1760 14800 21000. Why is there
  a very big increase in size between the second and third ionisation energies?
- 3. The following are all lists of successive ionisation energies for different elements. In each case, decide which group of the Periodic Table the element is to be found in. None of these elements comes from the d-block.
  - a) 799 2420 3660 25000 32800
  - b) 736 1450 7740 10500 13600 18000 21700 25600
  - c) 1000 2260 3390 4540 6990 8490 27100 31700
- 4. The graph shows the first ten ionisation energies for calcium.



- a) Say which electron is being removed at each of these ionisations.
- b) Point out and explain all the changes of slope in the graph
- c) The eleventh ionisation energy of calcium is 57050 kJ mol<sup>-1</sup>. Explain why it is so much higher than the other values on the graph.

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Paul M. S. Monk

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# **Table of Contents Chemquide Questions First Ionisation Energies**

- 1. Understanding the eBook Chemguide Questions First Ionisation Energies
  - The Rise of Digital Reading Chemquide Questions First Ionisation Energies
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Chemguide Questions First Ionisation Energies
  - 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 Chemguide Questions First Ionisation Energies
  - User-Friendly Interface

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

- 12. Sourcing Reliable Information of Chemguide Questions First Ionisation Energies
  - Fact-Checking eBook Content of Chemguide Questions First Ionisation Energies
  - 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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