

# Answers to SAQs

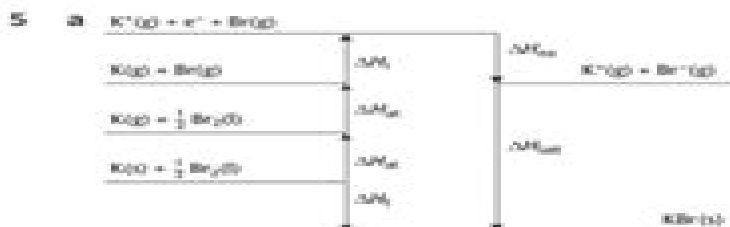
## Chapter 19

- standard temperature = 298 K, standard pressure =  $1 \times 10^5$  Pa / 100 kPa
  - $\text{Mg}^{2+}(\text{g}) + \text{O}^{2-}(\text{g}) \rightarrow \text{MgO}(\text{s})$
    - $\text{K}^+(\text{g}) + \text{Br}^-(\text{g}) \rightarrow \text{KBr}(\text{s})$
    - $2\text{Na}^+(\text{g}) + \text{S}^{2-}(\text{g}) \rightarrow \text{Na}_2\text{S}(\text{s})$
- The bond energy for chlorine is the enthalpy change  $\text{Cl}_2(\text{g}) \rightarrow 2\text{Cl}(\text{g})$ . The enthalpy change of atomisation is  $\frac{1}{2}\text{Cl}_2(\text{g}) \rightarrow \text{Cl}(\text{g})$ . So the enthalpy change of atomisation is  $+244/2 = +122 \text{ kJ mol}^{-1}$ .
  - $\frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{O}(\text{g})$
    - $\text{Ba}(\text{s}) \rightarrow \text{Ba}(\text{g})$
    - $\frac{1}{2}\text{Br}_2(\text{l}) \rightarrow \text{Br}(\text{g})$
  - $0 \text{ kJ mol}^{-1}$   
Because helium exists naturally as single gaseous atoms, no change is involved in the process  $\text{He}(\text{g}) \rightarrow \text{He}(\text{g})$ .
- There must be an input of energy to overcome the repulsive forces between the (negative) electron and the negative ion.
  - $+440 \text{ kJ mol}^{-1}$
  - $\text{I}(\text{g}) + \text{e}^- \rightarrow \text{I}^-(\text{g})$
    - $\text{S}^-(\text{g}) + \text{e}^- \rightarrow \text{S}^{2-}(\text{g})$
- $\text{Cs}(\text{g}) \rightarrow \text{Cs}^+(\text{g}) + \text{e}^-$
    - $\text{Al}^{3+}(\text{g}) \rightarrow \text{Al}^{2+}(\text{g}) + \text{e}^-$
    - $\text{Ca}(\text{s}) + \frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{CaO}(\text{s})$
    - $\text{Fe}(\text{s}) + 1\frac{1}{2}\text{Cl}_2(\text{g}) \rightarrow \text{FeCl}_3(\text{s})$
  - $$\Delta H_{\text{lattice}}^\ominus = \Delta H_{\text{ion}}^\ominus - \{\Delta H_{\text{at}}^\ominus[\text{Na}] + \Delta H_{\text{II}}^\ominus[\text{Na}] + \Delta H_{\text{at}}^\ominus[\frac{1}{2}\text{Cl}_2(\text{g})] + \Delta H_{\text{f}}^\ominus[\text{Cl}]\}$$

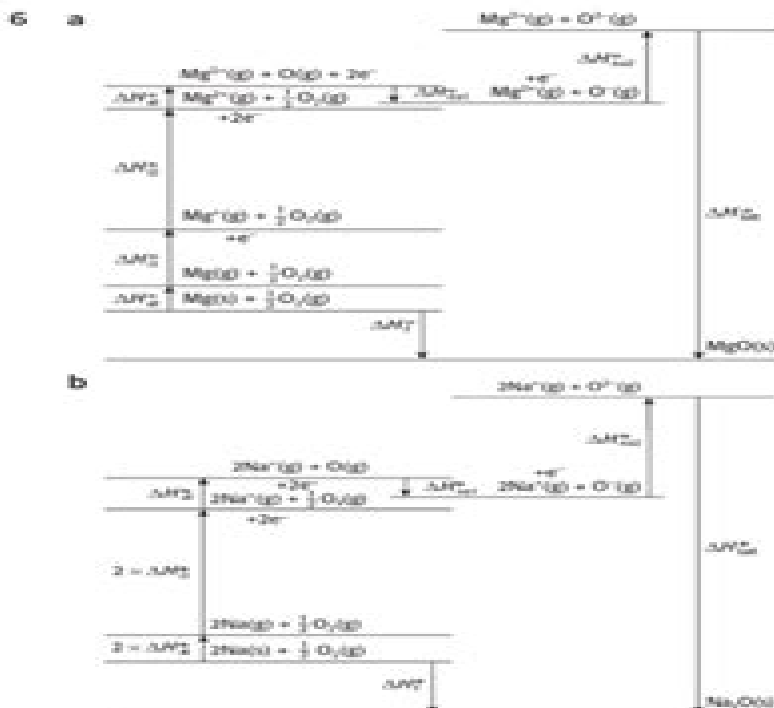
$$\Delta H_{\text{lattice}}^\ominus = (-411) - \{(+107) + (+496) + (+122) + (-348)\}$$

$$= +377 \text{ kJ mol}^{-1}$$

$$\Delta H_{\text{lattice}}^\ominus = (-411) - (+377) = -788 \text{ kJ mol}^{-1}$$



- enthalpy change of atomisation of iodine
  - first electron affinity of nitrogen
  - enthalpy change of formation of strontium chloride
  - lattice energy of cadmium chloride



# Chemistry Chapter 19 Challenge Problems Answer Key

**Mrityunjay Singh, Tatsuki Ohji, Rajiv  
Asthana, Sanjay Mathur**



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**Study Guide for Hein and Arena's Foundations of College Chemistry** Peter Scott, Rachael Enriquez Porter, 1999-04-18. **Books in Print Supplement**, 2002. Chemistry John S. Phillips, Cheryl Wistrom, 2000. Chemistry Karen Timberlake, 1983. **Preview Edition for Chemistry** Moore, 2001-03. **Chemistry** Steven S. Zumdahl, 1993. Booklist, 1919. **The Booklist**, 1918.

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## **Table of Contents Chemistry Chapter 19 Challenge Problems Answer Key**

1. Understanding the eBook Chemistry Chapter 19 Challenge Problems Answer Key
  - The Rise of Digital Reading Chemistry Chapter 19 Challenge Problems Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Chapter 19 Challenge Problems Answer Key
  - 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 eBook Chemistry Chapter 19 Challenge Problems Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Chapter 19 Challenge Problems Answer Key
  - Personalized Recommendations
  - Chemistry Chapter 19 Challenge Problems Answer Key User Reviews and Ratings
  - Chemistry Chapter 19 Challenge Problems Answer Key and Bestseller Lists
5. Accessing Chemistry Chapter 19 Challenge Problems Answer Key Free and Paid eBooks
  - Chemistry Chapter 19 Challenge Problems Answer Key Public Domain eBooks
  - Chemistry Chapter 19 Challenge Problems Answer Key eBook Subscription Services
  - Chemistry Chapter 19 Challenge Problems Answer Key Budget-Friendly Options
6. Navigating Chemistry Chapter 19 Challenge Problems Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Chemistry Chapter 19 Challenge Problems Answer Key Compatibility with Devices
  - Chemistry Chapter 19 Challenge Problems Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chemistry Chapter 19 Challenge Problems Answer Key
  - Highlighting and Note-Taking Chemistry Chapter 19 Challenge Problems Answer Key
  - Interactive Elements Chemistry Chapter 19 Challenge Problems Answer Key

8. Staying Engaged with Chemistry Chapter 19 Challenge Problems Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chemistry Chapter 19 Challenge Problems Answer Key
9. Balancing eBooks and Physical Books Chemistry Chapter 19 Challenge Problems Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chemistry Chapter 19 Challenge Problems Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chemistry Chapter 19 Challenge Problems Answer Key
  - Setting Reading Goals Chemistry Chapter 19 Challenge Problems Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemistry Chapter 19 Challenge Problems Answer Key
  - Fact-Checking eBook Content of Chemistry Chapter 19 Challenge Problems Answer Key
  - 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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