

STAAR CHEMISTRY REFERENCE MATERIALS



ATOMIC STRUCTURE

$$\text{Speed of light} = (\text{frequency})(\text{wavelength})$$

$$c = f\lambda$$

$$\text{Energy} = (\text{Planck's constant})(\text{frequency})$$

$$E_{\text{photon}} = hf$$

$$\text{Energy} = \frac{(\text{Planck's constant})(\text{speed of light})}{(\text{wavelength})}$$

$$E_{\text{photon}} = \frac{hc}{\lambda}$$

BEHAVIOR OF GASES

$$\text{Total pressure of a gas} = \left(\begin{array}{c} \text{sum of the partial pressures} \\ \text{of the component gases} \end{array} \right)$$

$$P_T = P_1 + P_2 + P_3 + \dots$$

$$(\text{Pressure})(\text{volume}) = (\text{moles})(\text{ideal gas constant})(\text{temperature})$$

$$PV = nRT$$

$$\frac{(\text{Initial pressure})(\text{initial volume})}{(\text{Initial moles})(\text{initial temperature})} = \frac{(\text{final pressure})(\text{final volume})}{(\text{final moles})(\text{final temperature})}$$

$$\frac{P_1V_1}{n_1T_1} = \frac{P_2V_2}{n_2T_2}$$

$$(\text{Initial pressure})(\text{initial volume}) = (\text{final pressure})(\text{final volume})$$

$$P_1V_1 = P_2V_2$$

$$\frac{(\text{Initial volume})}{(\text{Initial temperature})} = \frac{(\text{final volume})}{(\text{final temperature})}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$\frac{(\text{Initial volume})}{(\text{Initial moles})} = \frac{(\text{final volume})}{(\text{final moles})}$$

$$\frac{V_1}{n_1} = \frac{V_2}{n_2}$$

SOLUTIONS

$$\text{Molarity} = \frac{\text{moles of solute}}{\text{liter of solution}}$$

$$M = \frac{\text{mol}}{\text{L}}$$

$$\text{Ionization constant of water} = \left(\begin{array}{c} \text{hydrogen ion} \\ \text{concentration} \end{array} \right) \left(\begin{array}{c} \text{hydroxide ion} \\ \text{concentration} \end{array} \right)$$

$$K_w = [\text{H}^+][\text{OH}^-]$$

$$\left(\begin{array}{c} \text{Volume of} \\ \text{solution 1} \end{array} \right) \left(\begin{array}{c} \text{molarity of} \\ \text{solution 1} \end{array} \right) = \left(\begin{array}{c} \text{volume of} \\ \text{solution 2} \end{array} \right) \left(\begin{array}{c} \text{molarity of} \\ \text{solution 2} \end{array} \right)$$

$$V_1M_1 = V_2M_2$$

$$\text{pH} = -\log(\text{hydrogen ion concentration})$$

$$\text{pH} = -\log[\text{H}^+]$$

THERMOCHEMISTRY

$$\text{Heat gained or lost} = (\text{mass}) \left(\begin{array}{c} \text{specific} \\ \text{heat} \end{array} \right) \left(\begin{array}{c} \text{change in} \\ \text{temperature} \end{array} \right)$$

$$Q = mc_p\Delta T$$

$$\text{Enthalpy of reaction} = \left(\begin{array}{c} \text{enthalpy} \\ \text{of products} \end{array} \right) - \left(\begin{array}{c} \text{enthalpy} \\ \text{of reactants} \end{array} \right)$$

$$\Delta H = \Delta H_f^\circ(\text{products}) - \Delta H_f^\circ(\text{reactants})$$

Staar Reference Chemistry

LL Leslie

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the LL Leslie text bar.

Staar Reference Chemistry:

This book delves into Staar Reference Chemistry. Staar Reference Chemistry is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Staar Reference Chemistry, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Staar Reference Chemistry
- Chapter 2: Essential Elements of Staar Reference Chemistry
- Chapter 3: Staar Reference Chemistry in Everyday Life
- Chapter 4: Staar Reference Chemistry in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Staar Reference Chemistry. This chapter will explore what Staar Reference Chemistry is, why Staar Reference Chemistry is vital, and how to effectively learn about Staar Reference Chemistry.
3. In chapter 2, this book will delve into the foundational concepts of Staar Reference Chemistry. The second chapter will elucidate the essential principles that need to be understood to grasp Staar Reference Chemistry in its entirety.
4. In chapter 3, this book will examine the practical applications of Staar Reference Chemistry in daily life. The third chapter will showcase real-world examples of how Staar Reference Chemistry can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Staar Reference Chemistry in specific contexts. The fourth chapter will explore how Staar Reference Chemistry is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Staar Reference Chemistry. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Staar Reference Chemistry.

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Staar Reference Chemistry Introduction

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