

Moz

# Molarity, Molality, & Solutions Practice

Molarity  $M = \frac{\text{moles}}{L}$

1. Find the M of 1 mole of salt in 2.5 L. of water.

$$\frac{1 \text{ mole}}{2.5 L} = \boxed{.4 M}$$

2. Find the M of 2.3 moles of salt in 1.14L. of water.

$$\frac{2.3 \text{ moles}}{1.14} = \boxed{2 M}$$

3. Find the M of 1.9 moles of sodium acetate in 12.4L. of water.

$$\frac{1.9}{12.4} = \boxed{.15 M}$$

4. How many moles of potassium carbonate are needed to make 500 mL. of a 1.25 M solution?

$$1.25 M = \frac{\text{moles}}{.5 L} \quad (.5)(1.25) = \text{moles} \quad \boxed{0.625 \text{ moles}}$$

5. How many liters of 2.5 M solution can be made using 1.8 moles of lithium bromide?

$$2.5 M = \frac{1.8 \text{ moles}}{V} \quad \frac{(2.5)(V)}{2.5} = \frac{1.8}{2.5} \quad \boxed{0.72 L}$$

6. What is the concentration of a 450 mL. solution that contains 200 grams of iron (II) chloride?

$$\frac{200 \text{ g FeCl}_2}{112.15 \text{ g}} \left| \frac{1 \text{ mole FeCl}_2}{112.15 \text{ g}} \right| = 1.77 \text{ moles} \quad \frac{1.77}{.45 L} = \boxed{3.93 M}$$

7. How many grams of ammonium sulfate are needed to make 0.75L. of solution at a concentration of 4.0 M?

$$4 M = \frac{\text{moles}}{0.75} = 3 \text{ moles} \quad \frac{3 \text{ moles } (NH_4)_2SO_4}{132.17 \text{ g}} \left| \frac{1 \text{ mole } (NH_4)_2SO_4}{132.17 \text{ g}} \right| = \boxed{396.5}$$

## Molality

1. Calculate the molality of a solution containing 2.89g of NaCl dissolved in 0.159 L. of water.

$$\frac{2.89 \text{ g NaCl}}{58.44 \text{ g}} \left| \frac{1 \text{ mole}}{58.44 \text{ g}} \right| = 0.049 \text{ mol} \quad \frac{0.049}{0.159} = \boxed{.31 m}$$

2. Calculate the molality of a solution containing 1.80 mol KCl in 16.0 mol of H<sub>2</sub>O

$$\frac{16 \text{ mol H}_2\text{O}}{1 \text{ mol}} \left| \frac{18 \text{ g}}{1 \text{ mol}} \right| = 288.32 \text{ g} = \text{mol} \quad \frac{1.8 \text{ mol}}{288 \text{ g}} = \boxed{6.25 m}$$

# Molarity Webquest Answer Key Teacher

**Richard Bailey**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Molarity Webquest Answer Key Teacher:**

This book delves into Molarity Webquest Answer Key Teacher. Molarity Webquest Answer Key Teacher is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Molarity Webquest Answer Key Teacher, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Molarity Webquest Answer Key Teacher
    - Chapter 2: Essential Elements of Molarity Webquest Answer Key Teacher
    - Chapter 3: Molarity Webquest Answer Key Teacher in Everyday Life
    - Chapter 4: Molarity Webquest Answer Key Teacher in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Molarity Webquest Answer Key Teacher. This chapter will explore what Molarity Webquest Answer Key Teacher is, why Molarity Webquest Answer Key Teacher is vital, and how to effectively learn about Molarity Webquest Answer Key Teacher.
  3. In chapter 2, this book will delve into the foundational concepts of Molarity Webquest Answer Key Teacher. The second chapter will elucidate the essential principles that need to be understood to grasp Molarity Webquest Answer Key Teacher in its entirety.
  4. In chapter 3, the author will examine the practical applications of Molarity Webquest Answer Key Teacher in daily life. This chapter will showcase real-world examples of how Molarity Webquest Answer Key Teacher can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Molarity Webquest Answer Key Teacher in specific contexts. The fourth chapter will explore how Molarity Webquest Answer Key Teacher is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Molarity Webquest Answer Key Teacher. The final 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 Molarity Webquest Answer Key Teacher.

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