

Calculating percent by mass/volume

Chem Worksheet 15-2

Name _____

The concentration of a solution can be expressed as a percent – the ratio of solute to solution. This calculation is commonly performed based on the mass of a substance (m/m) or on the volume of substances (v/v). A solution that is composed of 5 g of salt for every 95 g of water will have a mass percent of 5%.

$$\frac{5 \text{ g NaCl}}{(5 \text{ g} + 95 \text{ g}) \text{ solution}} \times 100 = 5 \%$$

A solution made from 35 mL of ethanol and 65 mL of water will have a percent by volume of 35%.

$$\frac{35 \text{ mL ethanol}}{(35 \text{ mL} + 65 \text{ mL}) \text{ solution}} \times 100 = 35 \%$$

USEFUL EQUATIONS

$$\text{Percent by Mass} = \frac{\text{mass solute}}{\text{mass solution}} \times 100$$

$$\text{Percent by Volume} = \frac{\text{mass solute}}{\text{mass solution}} \times 100$$

$$\text{Solution} = \text{solute} + \text{solvent}$$

$$1 \text{ kg} = 1000 \text{ g}$$

$$1 \text{ L} = 1000 \text{ mL}$$

Answer the following questions. Show all work and report answers with units.

1. What is the percent by mass of 5.0 g of iron (II) sulfate dissolved in 75.0 g of water?
2. A solution is made by adding 25 mL of benzene to 80 mL of toluene. What is the percent by volume of benzene?
3. A solution is formed by adding 35 g of ammonium nitrate to 250 g of water. What is the percent by mass of ammonium nitrate?
4. What is the percent by volume of a solution formed by mixing 25 mL of isopropanol with 45 mL of water?
5. What is the mass percent of each component in the mixture formed by adding 12 g of calcium sulfate, 18 g of sodium nitrate, and 25 g of potassium chloride to 500 g of water?
6. A solution is made by dissolving 125 g of sodium chloride in 1.5 kg of water. What is the percent by mass?
7. What is the percent by volume of a solution formed by added 15 L of acetone to 28 L of water?
8. An experiment requires a solution that is 80% methyl alcohol by volume. What volume of methyl alcohol should be added to 200 mL of water to make this solution?

Calculating Percent Mass Volume Chem Worksheet 15 2 Answers

**Frank Schaffer Publications,Joan
DiStasio**



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Table of Contents Calculating Percent Mass Volume Chem Worksheet 15 2 Answers

1. Understanding the eBook Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - The Rise of Digital Reading Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - 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 Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculating Percent Mass Volume Chem Worksheet 15 2 Answers

- Personalized Recommendations
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers User Reviews and Ratings
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers and Bestseller Lists
5. Accessing Calculating Percent Mass Volume Chem Worksheet 15 2 Answers Free and Paid eBooks
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers Public Domain eBooks
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers eBook Subscription Services
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers Budget-Friendly Options
 6. Navigating Calculating Percent Mass Volume Chem Worksheet 15 2 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers Compatibility with Devices
 - Calculating Percent Mass Volume Chem Worksheet 15 2 Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Highlighting and Note-Taking Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Interactive Elements Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 8. Staying Engaged with Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 9. Balancing eBooks and Physical Books Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Setting Reading Goals Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Calculating Percent Mass Volume Chem Worksheet 15 2 Answers

- Fact-Checking eBook Content of Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
- 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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