

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

LP Steffe



Calculating Percent Mass Volume Chem Worksheet 15 2 Answers:

The book delves into Calculating Percent Mass Volume Chem Worksheet 15 2 Answers. Calculating Percent Mass Volume Chem Worksheet 15 2 Answers 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 Calculating Percent Mass Volume Chem Worksheet 15 2 Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Chapter 2: Essential Elements of Calculating Percent Mass Volume Chem Worksheet 15 2 Answers
 - Chapter 3: Calculating Percent Mass Volume Chem Worksheet 15 2 Answers in Everyday Life
 - Chapter 4: Calculating Percent Mass Volume Chem Worksheet 15 2 Answers in Specific Contexts
 - Chapter 5: Conclusion
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6. In chapter 5, this book will draw a conclusion about Calculating Percent Mass Volume Chem Worksheet 15 2 Answers. The final chapter will summarize the key points that have been discussed throughout the book.

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