

# Molarity And Molality Worksheet With Answers

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Molarity: Molarity = 1. 2.

Molarity and molality are both ways to express concentration. Molarity is abbreviated as

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'M' and is the moles of solute per liter of solution.  $M = \text{mol solute} / \text{L solution}$ .

Chemistry 11 Mole Fraction/Molality Worksheet Date

Assume, unless otherwise told, that in all problems water is the solvent. Example #1:

Given a density of 1.836 g/mL and a mass percent of H<sub>2</sub>SO<sub>4</sub> of 96.00%, find the molarity, molality, and mole fraction. The molar mass of water is 18.015 g/mol and the molar mass of sulfuric acid is 98.078 g/mol.

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Molarity Molality Osmolality Osmolarity Worksheet and Key ...

7. 93.2\_gof copper (II) sulfate is mixed into 290. mL of water): What is the molarity? mol  
6.7-40Lizo l L at is the molality of a solution that has 0.320 moles of solute in 2200.  
grams of solvent? 9. What mass of water is needed to prepare a 1.20 m solution using  
0.60 mol NaCl? m 10. 050 26g of C<sub>6</sub>H<sub>6</sub> dissolve in 820. g of acetone. What is the ...

Molarity, Molality, or Normality? (A Quick Review ...

3. What is the molarity of a solution of HNO<sub>3</sub> that contains 12.6 grams HNO<sub>3</sub> in 1.0 L of

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solution? ? mol HNO<sub>3</sub> = 12.6 g HNO<sub>3</sub> × 1 mol HNO<sub>3</sub> / 63.0 g HNO<sub>3</sub> = 0.200 mol HNO<sub>3</sub> M = 0.200 mol HNO<sub>3</sub> / 1.0 L = 0.200 M  
4. How many grams of potassium nitrate are required to prepare 0.250 L of a 0.700 M solution? 0.700 M = moles of solute / 0.250 L moles of ...

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molality = moles of solute/kilograms of solvent. Although their spellings are similar, molarity and molality cannot be interchanged. Molarity is a measurement of the moles in the total volume of the solution, whereas molality is a measurement of the moles in relationship to the mass of the solvent.

Molarity and Molality Practice Problems | Molar ...

Problem #3: An aqueous solution is prepared by diluting 3.30 mL acetone (d = 0.789 g/mL) with water to a final volume of 75.0 mL. The density of the solution is 0.993 g/mL. What is the molarity, molality and mole fraction of acetone in this solution? Solution:

Quiz & Worksheet - How to Calculate Molarity and Molality ...

Molarity Problems Worksheet  $M = \frac{n}{V}$  - n = # moles V - V must be in liters (change if necessary) - Use M or mol/L as unit for molarity  
1. What is the molarity of a 0.30 liter solution containing 0.50 moles of NaCl?

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Molarity, Molality, Normality - College Chemistry

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water. Assuming the density of the solution is  $1.0 \text{ g/cm}^3$ , calculate the molarity and molality of  $\text{H}_2\text{O}$ . 8. A solution is made by dissolving 25 g of NaCl in enough water to make 1.0 L of solution. Assume the density of the solution is  $1.0 \text{ g/cm}^3$ . Calculate the

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molarity and molality of the solution. 9.

ChemTeam: Molality Problems #1-10

Chemistry 11 Mole Fraction/Molality Worksheet Name: Date: 1. A solution is prepared by mixing 100.0 g of water, H<sub>2</sub>O, and 100.0 g of ethanol, C<sub>2</sub>H<sub>5</sub>OH. Determine the mole fractions of each substance. 2. The molality of an aqueous solution of sugar (C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>) is 1.62m. Calculate the mole fractions of sugar and water. 3.

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Molality is greater than molarity because the volume increases when the solute dissolves in water so now the volume of the solution is greater than the mass of the water. If there is very little solute (dilute solution) then it is a good assumption that the volume does not change and molarity equals molality.

Molarity Problems Worksheet - Mrs Getson's Blog

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Calculations involving molality, molarity, density, mass ...

Molarity Worksheet # 2 identifiera \_\_\_\_\_ What does molarity mean? Number of moles of solute. 1 liter solution. What is the molarity of a solution that contains 4.53 moles of lithium nitrate in 2.85 liters of solution? 4.53 mol LiNO<sub>3</sub> = 1.59 M LiNO<sub>3</sub>. 2.85 L soln

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Test your knowledge of how to calculate molarity and molality concentration using this interactive quiz. Use the worksheet to identify study points...

### Molality Worksheet 13

Calculations for Solutions Worksheet and Key

1) 23.5g of NaCl is dissolved in enough water to make 683L of solution.

a) What is the molarity (M) of the solution? b) How ...

### Calculating Molarity and Molality Concentration - Video ...

Explanation: . Molarity, molality, and normality are all units of concentration in chemistry. Molarity is defined as the number of moles of solute per liter of solution. Molality is defined as the number of moles of solute per kilogram of solvent. Normality is defined as the number of equivalents per liter of solution. Molality, as compared to molarity, is also more convenient to use in ...

### Honors Chemistry Name Chapter 12: Molarity, Molality ...

Molality Worksheet Complete the following questions and problems relating to molality.

1) Write the equation for molality: 2) Write the equation for molarity: 3) Explain in words how molality and molarity differ. 4) What is the molality of a solution in which 0.32 moles aluminum chloride has been dissolved in 2,200 g water?

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