

Worksheet 1.4.msp

Activity = 100% (2/20)

Solve the problems below:

1. What is the molarity of a solution in which 10.0 g of NaCl are dissolved in 1.0 L of solution?
 $M = \frac{10.0 \text{ g}}{58.44 \text{ g/mol}} = 0.171 \text{ M}$
2. What is the molarity of a solution in which 10.0 g of AgNO_3 is dissolved in 500 mL of solution?
 $M = \frac{10.0 \text{ g}}{169.87 \text{ g/mol} \times 0.5 \text{ L}} = 0.118 \text{ M}$
3. How many grams of NaCl should be used to prepare 750 mL of a 0.200 M solution?
 $n = M \times V = 0.200 \text{ M} \times 0.750 \text{ L} = 0.150 \text{ mol}$
 $m = n \times M = 0.150 \text{ mol} \times 58.44 \text{ g/mol} = 8.77 \text{ g}$
4. To what volume should 1.0 g of NaCl be diluted in order to prepare a 0.20 M solution?
 $n = \frac{1.0 \text{ g}}{58.44 \text{ g/mol}} = 0.0171 \text{ mol}$
 $V = \frac{n}{M} = \frac{0.0171 \text{ mol}}{0.20 \text{ M}} = 0.0855 \text{ L} = 85.5 \text{ mL}$
5. How many grams of $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ are needed to prepare 100 mL of a 0.10 M solution?
 $n = M \times V = 0.10 \text{ M} \times 0.100 \text{ L} = 0.010 \text{ mol}$
 $m = n \times M = 0.010 \text{ mol} \times 147.01 \text{ g/mol} = 1.47 \text{ g}$

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Molarity and Dilutions Practice Problems € Molarity= molesolute Literssolution
Molarity 1 xVolume=Molarity 2 xVolume M 1 V 1 =M 2 V 2 1) How many grams of potassium carbonate, K₂CO₃, are needed to make 250 mL of a 2.5 M solution? 1st calculate the moles of solute 2nd use moles of solute to convert to grams of solute 1) € 2.5M= x 0.25L x ...

Molarity & Dilutions Practice ProblemsKEY

A simple mathematical relationship can be used to relate the volumes and concentrations of a solution before and after the dilution process. According to the definition of molarity, the molar amount of solute in a solution is equal to the product of the solution's molarity and its volume in liters: (5.4.1) $n = M L$

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Molarity = 303.76 g = 0.519 M 0.5000 L . Stoichiometry Worksheet # 3 Molarity Worksheet # 1 Created Date: 3/18/2015 4:06:29 Page 2/14 Molarity Ph Worksheet With Answers Worksheets are Molality work 13, Molarity molality osmolality osmolarity work and key, Molarity problems work, Molarity practice problems, Practice

Solutions Worksheet 2 Molarity And Dilution Problems ...

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MOLARITY BY DILUTION Acids are usually acquired from chemical supply houses in concentrated form. These acids are diluted to the desired concentration by adding water. Since moles of acid before dilution moles of acid after dilution, and moles of acid $M \times V$ then, $M_1 X V_1 = M_2 X V_2$. Solve the following problems.

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