

Chemistry: Molality

Directions: Using these formulas, solve the following problems.

$$\text{molality} = \text{mol solute} / \text{kg solvent}$$

$$1 \text{ amu} = 1 \text{ gram} / \text{mol}$$

$$\Delta T_{\text{boiling}} = (i \cdot \text{number of ions}) (\text{molality}) (k_b)$$

$$\Delta T_{\text{freezing}} = (\text{number of ions}) (\text{molality}) (k_f)$$

k_b and k_f are constants for each individual solvent.

Key



Problem 1: What is the molality of a solution containing 1.23 g of $\text{Hg}(\text{CN})_2$ dissolved in 1.37 g of methanol? Answer: 3.55 m

Problem 2: What is the molality of a solution containing 16.8 g of NaCl dissolved in 356 g of water? Answer: 0.606 m

Problem 3: How many grams of NaOH would be required to produce a 3.57 m solution with 473 g of water? Answer: 67.6 g

Problem 4: How many grams of KCl would you need to dissolve in 114 g of vinegar in order to prepare a 1.96 m solution? Answer: 16.6 g

Problem 5: Calculate the molality of 5.97 g NaCl dissolved in 471 g of water.
Answer: 0.217 m

Problem 6: Calculate the molality of 8.91 g Na_2CO_3 dissolved in 595 g of water.
Answer: 0.341 m

Problem 7: Calculate the molality of 8.44 g KBr dissolved in 112 g of water.
Answer: 0.633 m

Problem 8: What are the new boiling and freezing points for a solution with 581 g KBr dissolved in 845 grams of water? (k_b water = 0.512°C/m and k_f water = 1.86°C/m)
Answer: new freezing point = -13.4°C new boiling point = 106°C

Problem 9: What are the new boiling and freezing points for a solution with 391 g NaOH dissolved in 1029 grams of water? (k_b water = 0.512°C/m and k_f water = 1.86°C/m)
Answer: new freezing point = -36.3°C new boiling point = 107°C

Molality Answer Key

Tao Wei



Molality Answer Key:

The Enigmatic Realm of **Molality Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Molality Answer Key** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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