

Chemistry: Molality

Directions: Using these formulas, solve the following problems.

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

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

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

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

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: 0.806 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: 0.639 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

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Disha Experts



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