Chemistry 141 Name

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Quiz 10a (20 points) May 15, 2013

All work must be show to receive credit. Remember, significant figures are important!

Data

1. (20 points) A solution of sodium chloride with a density of 1.0639 g/mL freezes at –5.42oC. Determine the following:
   1. What is the molality of the sodium chloride solution?

Get 2.91 m if forget that sodium chloride dissociates.

* 1. What is the mass percent sodium chloride in the solution?

Get 0.170 g NaCl/1.170 g soln if forget *i*, 14.5 % NaCl

* 1. What is the molarity of the sodium chloride solution?

Get 2.63 M NaCl if forget *i* = 2.

* 1. What is the osmotic pressure of the solution in atm at 25oC?

Get 64.3 atm if forget *i* = 2.