

## ACS Gen Chem 2 Final Exam Study Guide With Correct Solutions.

C - Answer Where is the hydrophilic (attracted to water) region of the molecule?

- (A) Region 1
- (B) Region 2
- (C) Region 3
- (D) The three regions are equally hydrophilic

C - Answer Which molecule is most soluble in water?

D - Answer A solution of NaCl in water has a concentration of 20.5% by mass. What is the molal concentration of the solution?

Molar Mass NaCl = 58.44 g/mol

- (A) 0.205 m
- (B) 0.258 m
- (C) 3.51 m
- (D) 4.41 m

B - Answer What is the mole fraction of water in 200 g of 89% (by mass) ethanol, C<sub>2</sub>H<sub>5</sub>OH?

Molar Mass C<sub>2</sub>H<sub>5</sub>OH = 46 g/mol

- (A) 0.11
- (B) 0.24
- (C) 0.32
- (D) 0.76

D - Answer A mixture of 100 g of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> and 200 g of water is stirred at 60 degrees C until no more of the salt dissolves. The resulting solution is poured off into a separate beaker, leaving the undissolved solid behind. The solution is now cooled to 20 degrees C. What mass of K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> crystallizes from the solution during the cooling?

- (A) 9 g
- (B) 18 g
- (C) 31 g
- (D) 62 g

A - Answer Carbonated beverages have a fizz because of gas dissolved in the solution. What increases the concentration of gas in a solution?

- (A) cooling the solution
- (B) heating the solution
- (C) increasing the volume of solution
- (D) decreasing the volume of solution

# General Chemistry 2 Study Guide

**Lingjun Ying**



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