

CHEMISTRY 223; Section 001

GENERAL CHEMISTRY: SPRING, 2008.

Ungraded Assignment Three.

This assignment need not be submitted for grading. Students are strongly encouraged to attempt these problems for their own self-evaluation.

Several sections of this chapter were not very useful (at Chem 223 level), in aiding the student to understand the concept of entropy, especially the idea of microstates.... these are better left for Chem 440. The questions posed in this assignment, then, do not involve these concepts. The really important sections of the chapter commence on page 788 in the text.

Students should be able to handle all problems assigned here by the end of the sixth week of classes, 5/9/08.

Attempt the following problems on pages 812 - 817.

Review Questions

Nos. 1, 2, 4, 7, 8, 13, 14, 15, 16, 17, 20, 22, 23, 25, & 26.

Questions 2 and 4 are the type of questions that might be posed to you a bonus questions.

Problems.

Once you can do one, you can do all of them!!! Students should not have any problems solving these questions. The only difficult aspect of Chapter 17 is grasping the abstract concept of entropy and disorder; and it is plain sailing after that.

Nos. 27, 28, 31, 32, 33, 35, 36, 37, 38

Nos. 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 50, 51, 52, 54, 56, 57, 58, 61, 62, 63

Nos. 65, 66, 68, 69, 70, 71, 72, 73, 74, 75, 76

Cumulative Problems.

Nos. 79, 80, 82, 83, 84, 86, 87, 88

Challenge Problems.

Nos. 97 (same concept as question 4), 98, 99, 101, 102, 103.