

Chemistry 238 Experiment #3: Crystallization Winter 2005

Prelab: Purpose, and “materials and methods”. Please use the format outlined on the handout. In addition, please perform the “Pre-lab Calculations” on page 63 – Include this as an “Introduction” section in your lab notebook, after the Purpose section and before the Materials and Methods section.

Lab Result Report: (due Thursday, January 27 at 6 p.m.)

Experiments are to be done *individually*.

Parts A and B: Do 1 and 2 (p. 70)

For #1, give three sources of loss.

Part C: Do 1, 2 and 3 (p. 71)

For #2, you may skip sources of loss.

Answer questions:

Part D (pages 69 and 70): 1, 2, 3, and 4. You will need to use the Merck Index or similar reference to check your answers – I will expect some “published” information, along with the proper citation, for these questions.

End of Experiment 3 (page 71): 1, 2

End of Technique 5 (pages 575 and 576): 1 (all parts), 2, 7a, 7b, 8

For 7a and 7b, your description should include the actual (minimum) volume of hot solvent required to perform the crystallization.