

Chemistry 342
Spring, 2001
Problem Set 9

Due Friday, November 2

Read Chapter 6.

Do problems 1, 2, 3, 4, 5, 7.

In problem 1, sketch the relevant part of the phase diagram and calculate the normal boiling temperature. It does not agree with the Handbook value, presumably because the formula given is not valid over a wide range. In problem 7, you can ignore, to first approximation, the heat capacity of air. After you have obtained an answer, go back and calculate the effect of the air's heat capacity.