

## CH 337L Sample Pre-lab Notebook

Date: Sept. 25, 2001

Title: Experiment 1- Melting Points

### Purpose:

1. To learn the Capillary Method for determining mps of solid organic compounds.
2. To measure mps of pure and mixture compounds.
3. To use Mixture Melting Point technique to identify an unknown compound.

### References:

1. CH 337L lab manual, p7-11
2. FFF, p39-46

(Note: References in the pre-lab notebook can be written in the abbreviated form as shown here. However, references for your lab reports must be cited according to the journal format (see instructions on lab manual))

Balanced Equations: N/A

### Procedures:

#### Part A. Melting Points of Naphthalene and Biphenyl

1) measure the mp of \_\_\_\_\_ (to be assigned by instructor)

measurement 1:

measurement 2:

2) measure the mp of a mixture: \_\_\_\_\_% N, \_\_\_\_\_ % B

measurement 1:

measurement 2:

#### Part B. Identification of Unknown

1) measure the mp of the unknown

measurement 1:

measurement 2:

2) measure the mp of (50% unknown + 50% known #1 \_\_\_\_\_)

a) make a mixture of 50% unknown + 50% known #1

b) measure the mp of the mixture

measurement 1:

measurement 2:

3) measure the mp of (50% unknown + 50% known #2 \_\_\_\_\_)

a) make a mixture of 50% unknown + 50% known #2

b) measure the mp of the mixture

measurement 1:

measurement 2: