

Lab. 9 Data Sheet

Name \_\_\_\_\_

Section \_\_\_\_\_

**Balanced reaction:**

Date \_\_\_\_\_

**Mass** of methyl benzoate used \_\_\_\_\_

**Theoretical yield** of methyl m-nitrobenzoate \_\_\_\_\_

**Crude yield** of methyl m-nitrobenzoate \_\_\_\_\_

**Percent yield** based on crude methyl m-nitrobenzoate  
based on crude yield  
(nearest whole number) \_\_\_\_\_

**Corrected melting point** of crude methyl m-nitrobenzoate \_\_\_\_\_ - \_\_\_\_\_

**Mass** of purified methyl m-nitrobenzoate \_\_\_\_\_

**Percent yield** based on purified methyl m-nitrobenzoate  
based on purified yield  
(nearest whole number) \_\_\_\_\_

**Corrected melting point** of purified methyl m-nitrobenzoate \_\_\_\_\_ - \_\_\_\_\_

**Calculations for the theoretical yield:**

**Calculations for the percent yield of crude product:**

$$\% \text{Yield} = \frac{\text{crude yield}}{\text{theoretical}} \times 100\% =$$

**Calculations for the percent yield of the purified product:**

$$\% \text{Yield} = \frac{\text{purified yield}}{\text{theoretical}} \times 100\% =$$