

Name _____ Lab Partner _____
TA Name _____ Section _____ Date _____

Experiment 5 - Nitration of Methyl Benzoate

Record the following data.

1. Amount of methyl benzoate _____ mL, _____ g, _____ mol
2. Amount of concentrated nitric acid (16 M) _____ mL, _____ mol
3. Amount of concentrated sulfuric acid (18 M) _____ mL, _____ mol
4. Show your calculations.

5. Theoretical Yield of methyl 3-nitrobenzoate _____ mol, _____ g
6. Actual Yield of product _____ g
7. Percentage Yield _____
8. Melting Point of product (observed) _____
9. Reported Melting Point of methyl 3-nitrobenzoate _____