

Name: _____

Laboratory Day and Time: _____

Instructor: _____

Chemistry 354-355

Experiment 54

NITRATION OF METHYL BENZOATE

(Standard Version)

1. Write a balanced chemical equation for the nitration of methyl benzoate. Use structural formulas.

PURE METHYL *meta*-NITROBENZOATE

2. Report the following for your recrystallized sample of methyl *m*-nitrobenzoate.
 - a) the mass (**grams**) of your product: _____
 - b) the **color** of your product: _____
 - c) the **melting point range** of your product: _____
3. Report the **percentage yield** of your product. Show your calculation, including a complete setup with cancellation of units.

d) benzoic acid