

Name _____

Instructor's initials _____

1. (1 pt) Name of experiment:

2. (2 pts) Purpose of experiment:

3. (5 pts) Balanced equation(s) for main reaction(s) (show catalysts):

4. (13 pts) Summary of experimental procedure:

a. (5 pts) Reaction stage:

b. (5 pts) Work-up (isolation of crude product):

c. (3 pts) Final purification:

5. (3 pts) Sketch of apparatus (use other side):

6. (2 pts) Reasonable stopping places and estimated time needed to reach stopping places:

7. (8 pts) List all chemicals used and their purpose or function:

Reactants

Catalysts

Reaction Solvents

Drying Agents

Extraction Solvents

Other (specify)

8. (8 pts) Data: (List only for the reactants given in the balanced equation(s) of Item 3; omit catalysts)

reactants	molecular weight	density (for liquids)	grams used	moles used
product	molecular weight	theoretical yield (moles)	theoretical yield (grams)	

9. (2 pts) Limiting reactant:

10. (1 pts) Actual yield (in grams): _____

11. (1 pts) Percent yield: _____

12. a. (3 pts) Observed physical properties of product:

b. (3 pts) Literature values for physical properties:

13. (8 pts) Tests. Report results of chemical or physical (GC, IR) tests run on the product:

14. (5 pts) Comments and conclusions:

15. (25 pts) Answers to questions (attach to report):