**Lab notebook grading rubric:**

***Friedel-Crafts reaction of benzene and t-butyl chloride to 1,4-ditertbutyl benzene***

\_\_\_/3 **Purpose …**

\_\_overall reaction listed

\_\_ Name of reaction indicated

\_\_\_ full English sentences used

\_\_/10 **Procedure**

\_\_\_ mmoles/ mass or vol of all major reactants listed

\_\_\_Apparatus sketches

\_\_\_ behavior of reaction pot and any steps taken to initiate and continue reaction

(do crystals fall out ? if so, what color ? Was it necessary to add more AlCl3 ? Why? Does bubbling slow down ? Time of reaction ?)

\_\_\_details connected with workup (quenching with H2O, solvent sep with ether; drying agent ? solvent removal ?

\_\_\_/5 **Materials table (see attached…a gimme)**

\_\_/ 7 **Results**

\_\_Yield > 30%

\_\_if possible, mp.

\_\_\_ IR bands matched explicitly against known bands in lab handout

**Deductions**

\_\_\_ format errors…no page #, signatures etc

\_\_\_ poor workmanship- misspellings, poor English, sloppy presentation

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