

Remember, if you're not part of the solution, you're part of the precipitate!

NAME: \_\_\_\_\_

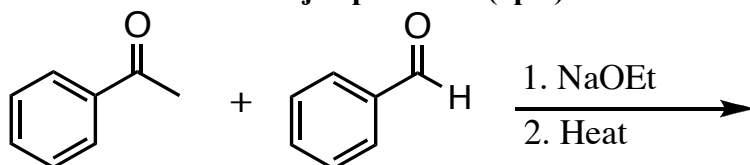
TA: Robert

Section: 1E

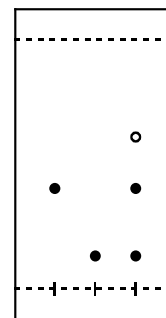
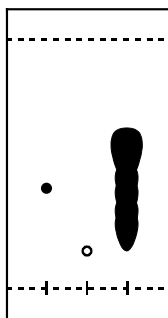
### Quiz #4

1. Draw the product of today's experiment (1,2,3,4-tetraphenyl-1,3-cyclopentadiene). (2pts)

2. Provide the major product: (4pts)



3. What is wrong with the following TLC plates? (6pts)



4. Given the following data for solubility of crude product in water:

<u>Temperature</u>	<u>Solubility (g/100ml)</u>
0°C	3.0
20°C	10.0
40°C	22.0
60°C	44.0
90°C	120.0

- a. How much water would be required to dissolve 60.0 g of crude product at 90°C? (2pts)
- b. How many grams of pure product would be recovered if the solution is cooled to 0°C afterwards? (2pts)
5. Given the molar coefficient of a given compound is  $2700 \text{ L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1}$ , what is a suggested concentration for this compound to do a UV-VIS measurement? (4pts)