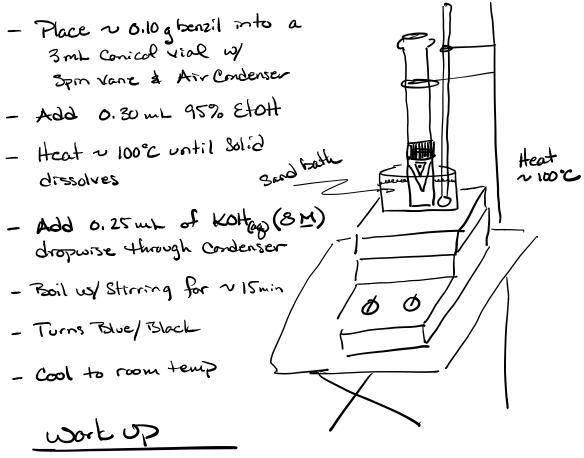
Multistep 3rd Reaction

Mechanism

R-OH Pta 15.7 R-PoH Pta 4.5



- Transfer contents to 10 mL beaker
- Ice both for 15mm -> may need to use scratching Rod to mouce crystallization.
- Hirsch funnel & Rinse W/ 3x Inc 95% EtaH OC

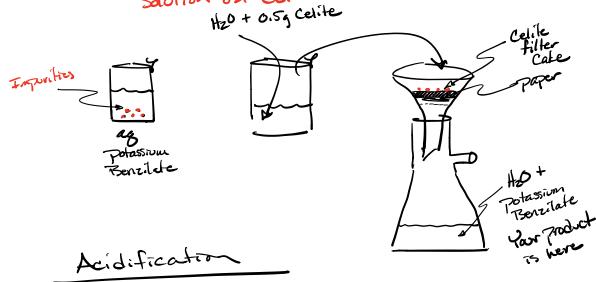
Highly water Soluble

- Transfer Solid to Small 10ml Erlenmeyer Flash with 3 ml Hot H20.
- Stir until the potassium benzilate dissolves

The solid Should all dissolve

Anything that doesn't dissolve is not your product

⇒ if there are solids then we filter the solution on Celite



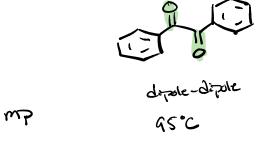
- Add 0.5 ml IM HCL w/ stirring
- Take pH down to ~2

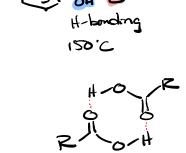
RICH Pla 4.5

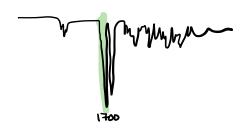
- Benzilic acid Should percipitate out
- Cool & Ice for 5-10 min
- filter on Hirsch
- mass
- MPTE

Squation Scheme

Benzilic Acid







non-H-banding
hydroxyl
Feak

Each Step has own yidd

overall yield

$$\frac{90 \text{ Rxn}}{100} \times \frac{90 \text{$$

Typical falls

Solid Phase Synthesis

HO-State