**Name and structure of main compounds used.**

Name and structure of reactants and products (for rxns)

<table>
<thead>
<tr>
<th>compound</th>
<th>amt</th>
<th>density (g/ml)</th>
<th>MW (g/mol)</th>
<th>#mmol</th>
<th>mp (°C)</th>
<th>bp (°C)</th>
<th>hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>dibenzalacetone</td>
<td>0.30 g</td>
<td></td>
<td>234</td>
<td></td>
<td>110-112</td>
<td></td>
<td>irritant</td>
</tr>
<tr>
<td></td>
<td>x3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>benzoic acid</td>
<td></td>
<td></td>
<td>122</td>
<td></td>
<td>122.4</td>
<td></td>
<td>toxic</td>
</tr>
<tr>
<td>ethanol</td>
<td>0.79</td>
<td></td>
<td>46.1</td>
<td></td>
<td>78</td>
<td></td>
<td>flammable toxic</td>
</tr>
<tr>
<td>2-propanol</td>
<td>0.79</td>
<td></td>
<td>60.1</td>
<td></td>
<td>82</td>
<td></td>
<td>flammable toxic</td>
</tr>
</tbody>
</table>

http://msds.chem.ox.ac.uk/DI/1,5-di-phenyl-1,4-pentadiene-3-one.html

http://www.ilpi.com/MSDS/benzoic.html

http://www.veegee.com/msds/m1004.pdf

http://www.jbaker.com/english.html/P6401.htm
0.3 g impure dba →

in 10 mL E flask
w/ boiling stone

→ add HOT EtOH
dropwise to create saturated boiling soln

→ collect crystals via vac fil
on Büchner funnel
→ rinse w/ ice cold EtOH

→ yield: 0.5 g
melting point: 76°C

→ remove flask from heat
→ cover w/ watch glass
→ cool cool slowly to rm temp
→ cool in ice bath

Repeat recryp w/ 2-propanol
0.5 g dba
mp (°C)

Repeat recryp w/ 30:70 EtOH : Water
0.5 g dba
yield: 0.25 g
mp: 70°C

*Flow Chart is preferred style.

*Notice blank spots to enter data

*You can not have your book in lab, you must have this pre-lab to guide you.