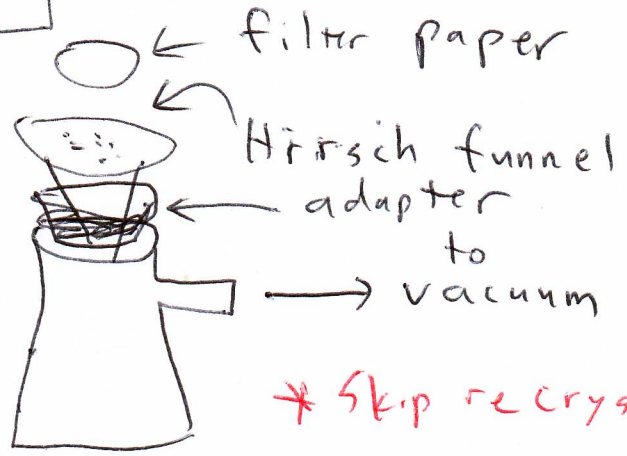


aqueous (NaOH) layer - acidify until precipitate forms

Part 1



Benzonic acid can be washed w/ small quantities of ice cold water, B.A. has lower solubility in cold water, but not zero solubility,

* Skip recrystallization for now.

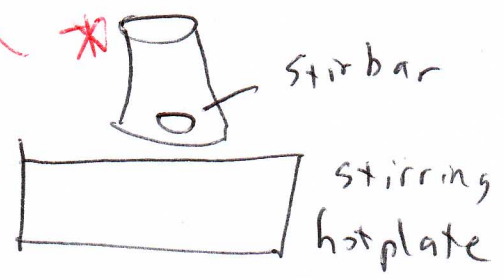
drying agent - usually a dehydrated hydrate, such as $MgSO_4$, $CaSO_4$, $ZnSO_4$, used to remove water (not just any liquid) from an organic solution.

- usually, a dry agent will clump together in organic solution in the presence of water. If, after drying has occurred, there is still powdered drying agent left over (in addition to the clumped material), enough drying agent was added.

Evaporating ether -

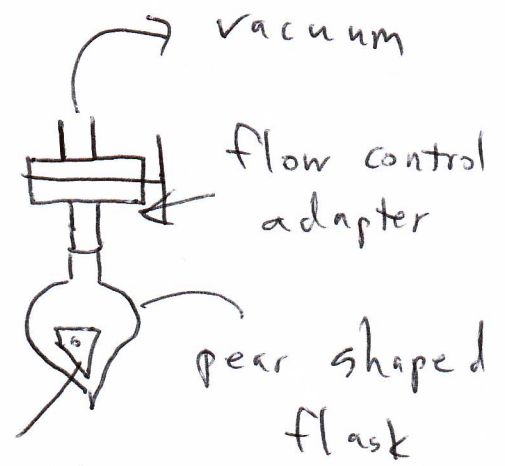
B.P. $34.5^\circ C$
auto ignition $: 160^\circ C$

1) Recommendation: use tared flask



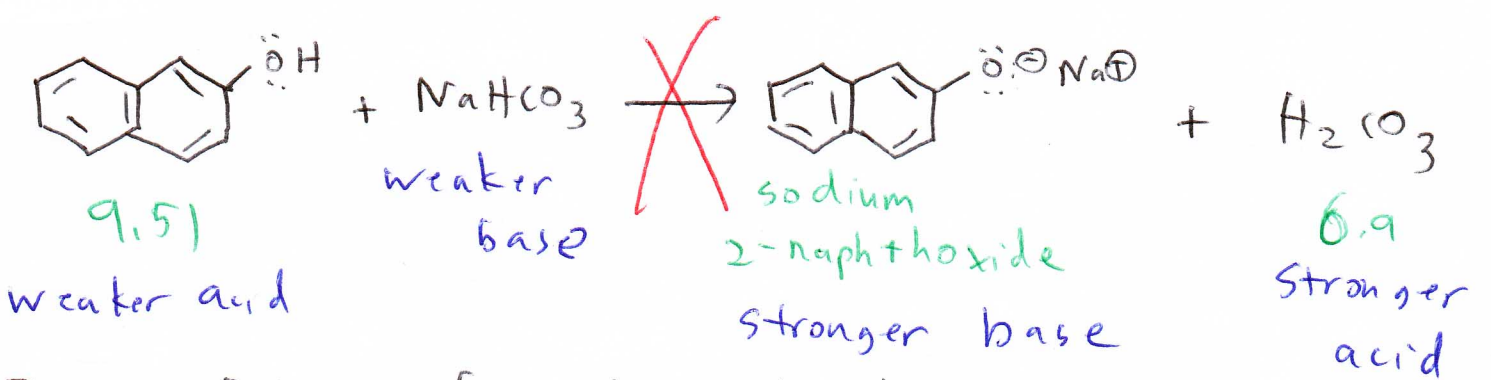
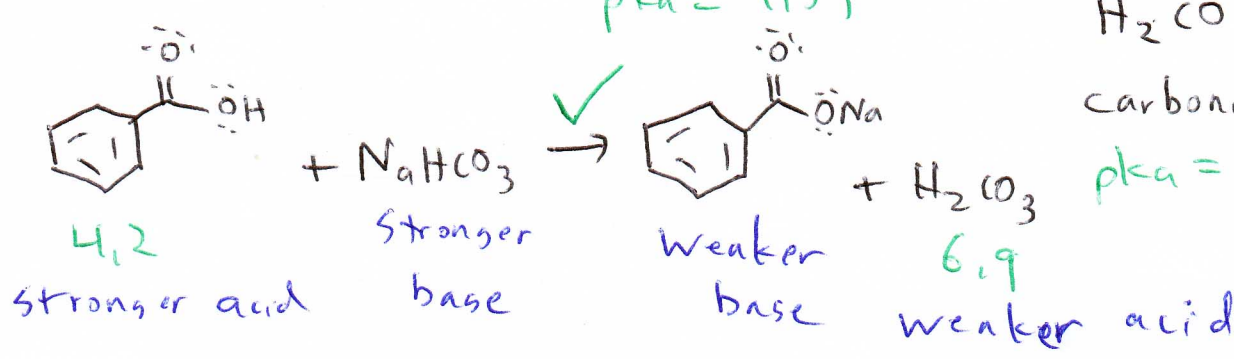
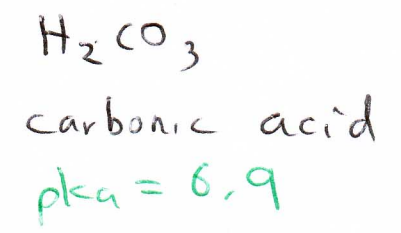
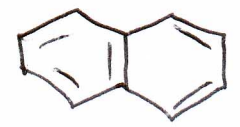
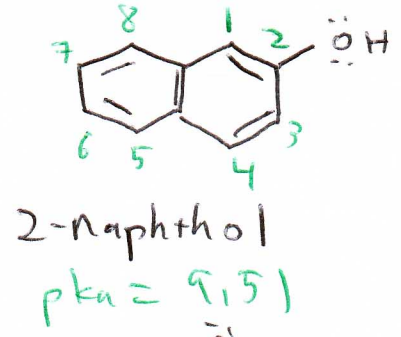
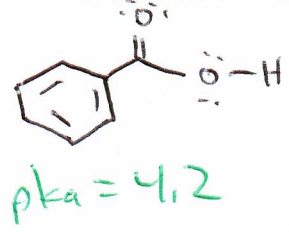
heat gently while stirring

2) vacuum



spinvane

Part B



In a mixture of acids with distinct pKa values, the acids can be individually isolated by extracting first with a weak base, then using a stronger base for each subsequent extraction.

