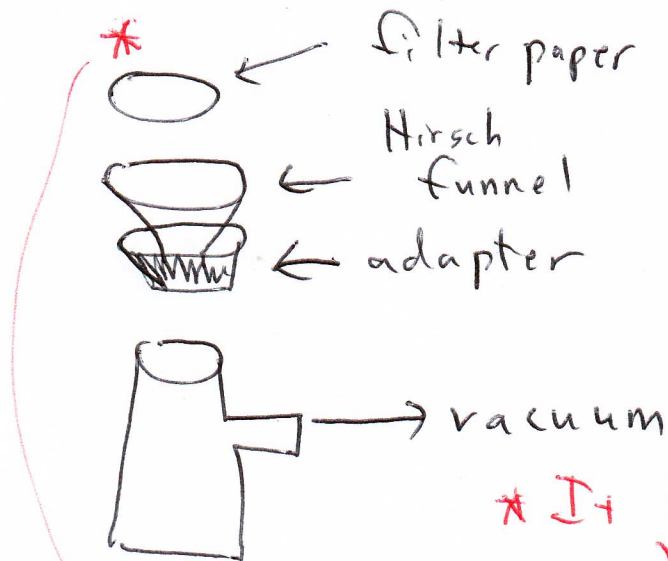


Part A Aqueous (NaOH) layer - acidify until a precipitate forms and the soln becomes acidic



B.A. has low - but non-zero - solubility in cold water. Small quantities of ice-cold water can be used to transfer or wash benzoic acid.

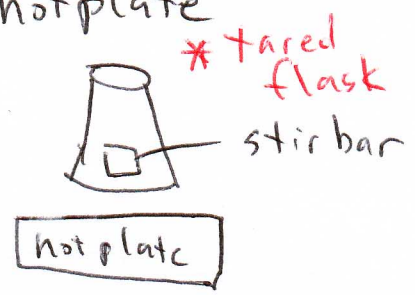
\* It is advisable to tare (measure mass) the filter paper before using so that an accurate mass of the product can be obtained.

drying agent - usually dehydrated hydrates, such as  $MgSO_4$ ,  $Na_2SO_4$ ,  $CaSO_4$ , or  $ZnSO_4$ . Used to remove water (not just any liquid) from an organic sol'n - usually, a powdered drying agent will clump together in an organic sol'n when exposed to water. If, after swirling the sol'n for a few minutes, clumps have formed and there is still powdered drying agent remaining, it means there had been enough drying agent to remove water. If only clumps are visible, more drying agent should be added to ensure complete dryness.

Ether - B.P.  $34.5^\circ C$   
autoignition:  $160^\circ C$

Evaporating ether

1) hotplate



2)

