

Chapter 23: Amine Reactions II Worksheet

BASICITY

Number the following in decreasing order of basicity (#1 = most basic)

benzylamine

ammonia

aniline

p-toluidine

1

2

4

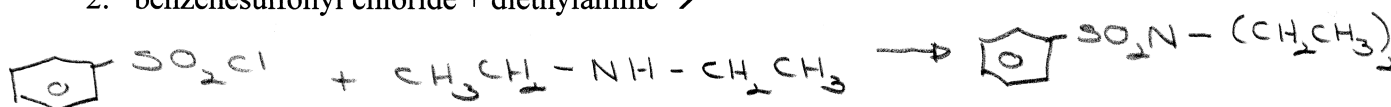
3

REACTIONS

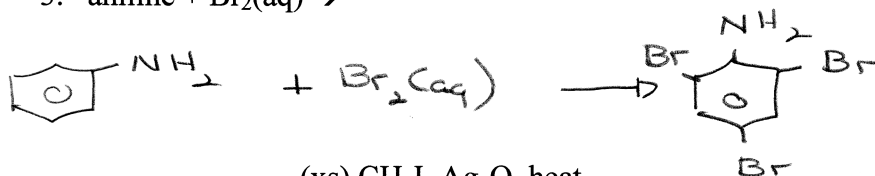
1. aniline + ethyl bromide →



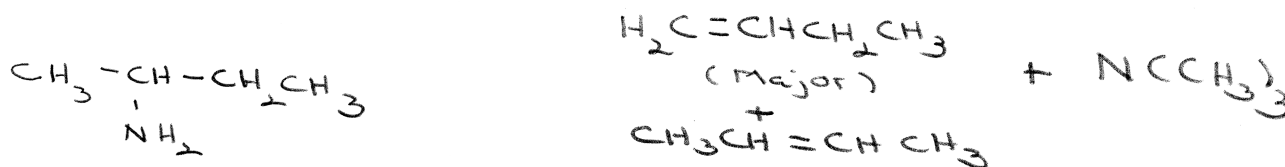
2. benzenesulfonyl chloride + diethylamine $\xrightarrow{\text{OH}^-}$



3. aniline + Br₂(aq) →



4. sec-butylamine $\xrightarrow{\text{(xs) CH}_3\text{I, Ag}_2\text{O, heat}}$



5. *n*-butylamine + ClCH₂COONa (sodium chloracetate) →



6. *N,N*-dimethylaniline + NaNO₂ $\xrightarrow{\text{H}^+}$ (HONO)

