

Exp. 9 post lab questions

1. The amine functional group ($\text{H}_2\text{N-R}$) is nucleophilic and is responsible for reacting with the acetic anhydride in this experiment. Since reaction runs more efficiently in a homogenous solution (why?), hydrochloric acid is used to make the p-phenetidine soluble in aqueous solution (how?). How does $\text{HCl}_{(\text{aq})}$ affect the nucleophilicity of the amine functionality of p-phenetidine? Explain the role of sodium acetate trihydrate in this reaction Will the reaction work without sodium acetate trihydrate?