
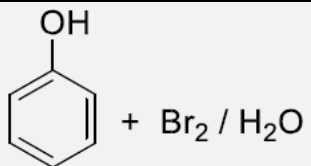


Laboratory Report (109 chem)

Experiment 5: Hydroxy Compounds (Alcohols and Phenols)

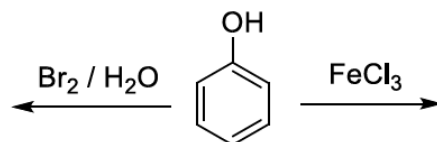
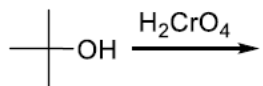
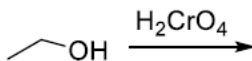
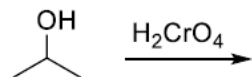
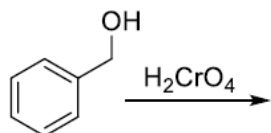
Student Names: Section No:

Test	Observation	Result	Chemical equation
1^o alcohol + Conc.HCl 1 mL of Ethanol + 1mL of Lucas reagent + heating for 1-2minutes			
2^o alcohol + Conc.HCl 1 mL of Isopropanol + 1 mL of Lucas reagent + heating for 1-2minutes			
3^o alcohol + Conc.HCl 1 mL of t-butanol + 1mL of Lucas reagent			
1^o alcohol + KMnO₄ 1mL of Ethanol + 1 drop of KMnO ₄ + heating for 1 minute			
3^o alcohol + KMnO₄ 1mL of t-butanol + 1 drop of KMnO ₄ + heating for 1 minute			
 + FeCl ₃	give violet coloration		



the brown color of bromine disappears
and a white precipitate of tribromophenol
is formed

Questions:



Name	class	Functional group	Molecular formula	Structure formula
Ethanol				
Isopropanol				
t-butanol				