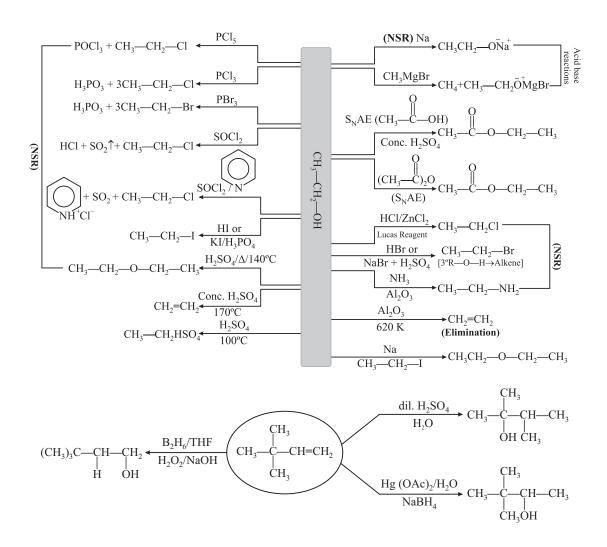
7



## **Alcohol, Phenol and Ether**



DEHYDROGENATIONS			
Reagent	OH H <sub>3</sub> C—CH <sub>2</sub> —CH <sub>2</sub> —CH <sub>2</sub> 1°Alcohol	OH H <sub>3</sub> C—CH <sub>2</sub> —CH—CH <sub>3</sub> 2°Alcohol	$\begin{array}{c} CH_3 \\ \mid \\ H_3C-C-OH \\ \mid \\ CH_3 \\ 3^\circ Alcohol \end{array}$
PCC / PDC Anhy. CrO <sub>3</sub>	O    	O     - 	No reaction
$K_2Cr_2O_7/H^{\oplus}$ $KMnO_4/H^{+/-}$ $OH/\Delta$ Jones Reagent	О     -  -	O O H H <sub>3</sub> C—C—OH + CH <sub>3</sub> —C—OH	No reaction
Cu/500°C	O    	O    	CH <sub>3</sub> H <sub>3</sub> C—C=CH <sub>2</sub>
Lucas Reagent HCl/ZnCl <sub>2</sub>	Cloudiness appear upon heating after 30 mins.	Within five min.	Immediately

