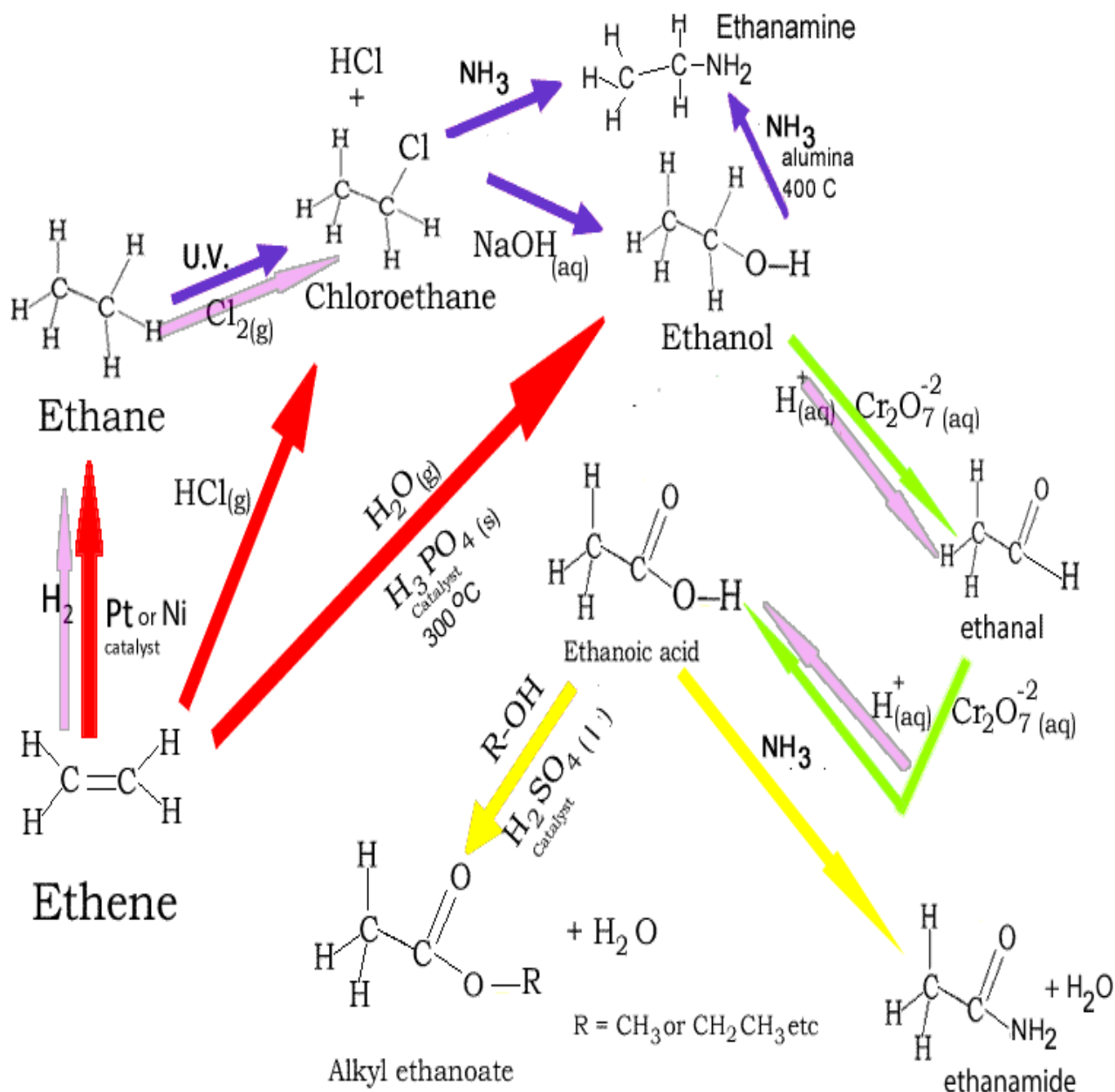
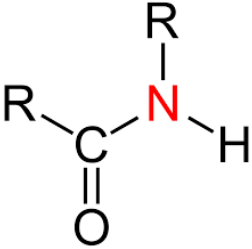
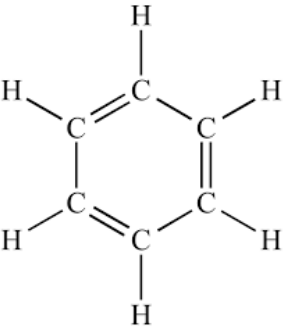
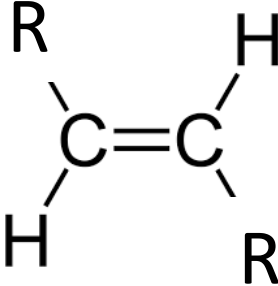
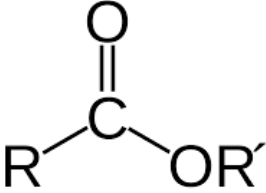


Pathways and functional group summary



Functional groups		
<p>Amide</p> <p>Formed during a condensation reaction between a carboxyl and amine functional groups.</p> $\text{RCOOH} + \text{H}_2\text{NR}' \rightarrow \text{RCONHR}' + \text{H}_2\text{O}$		
<p>Benzene ring</p>		
<p>Carbon to carbon double bond</p>		
<p>Ester</p> <p>Formed during a condensation reaction between a carboxyl and hydroxyl functional groups.</p> $\text{RCOOH} + \text{HOR}' \rightarrow \text{RCOOR}' + \text{H}_2\text{O}$		

Carboxyl	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{OH} \end{array}$	
Amino (-NH ₂)	$\begin{array}{c} \text{H} \\ \diagup \\ \text{R}-\text{N} \\ \diagdown \\ \text{H} \end{array}$	
Hydroxyl	$\begin{array}{c} \text{R}-\text{O} \\ \diagdown \\ \text{H} \end{array}$	
Carbonyl	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{R}' \end{array}$	
<p>Ether</p> <p>Formed during a condensation reaction between two hydroxyl functional groups.</p> $\text{ROH} + \text{HOR}' \rightarrow \text{ROR}' + \text{H}_2\text{O}$	$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{R}' \end{array}$	