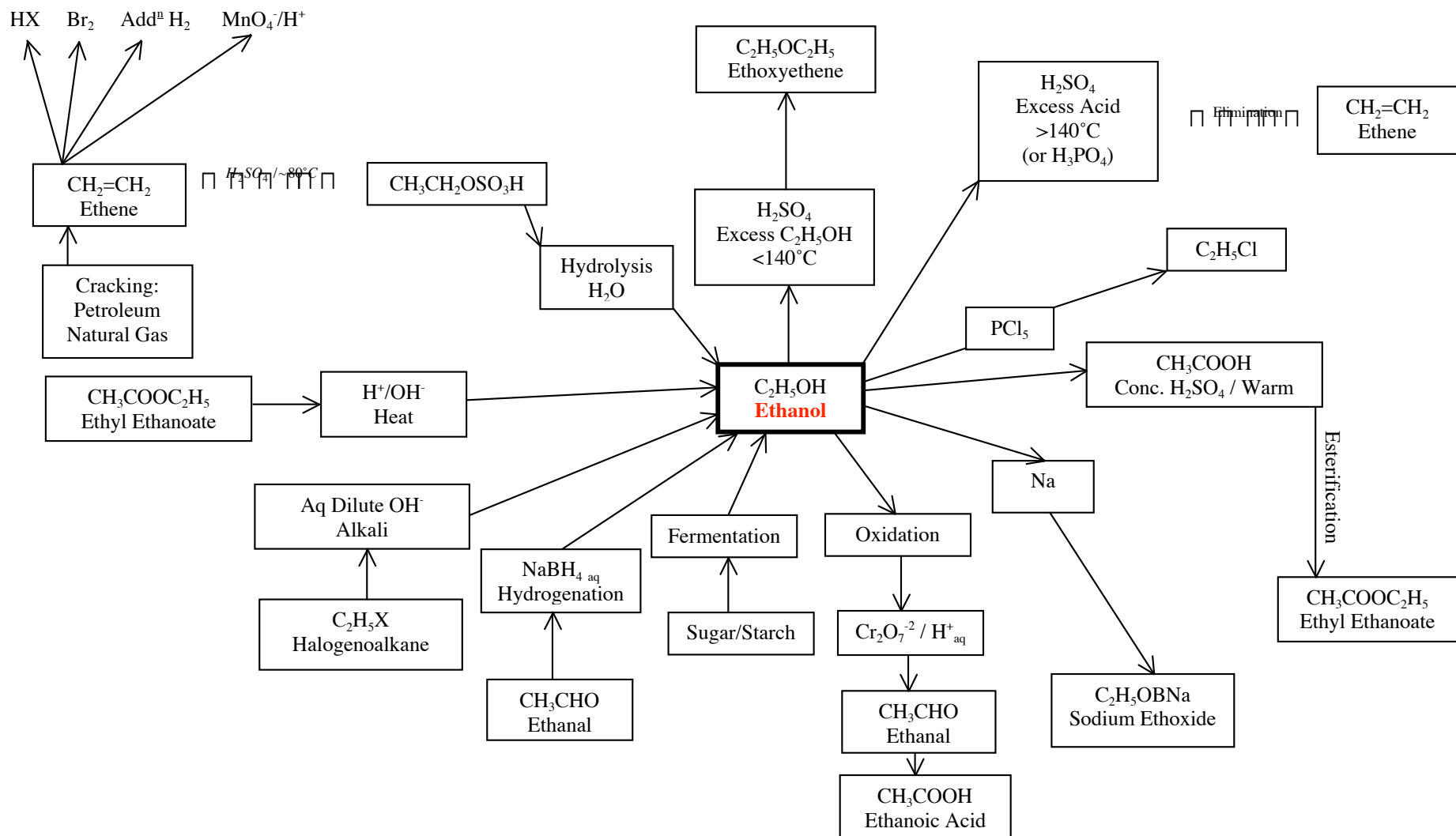
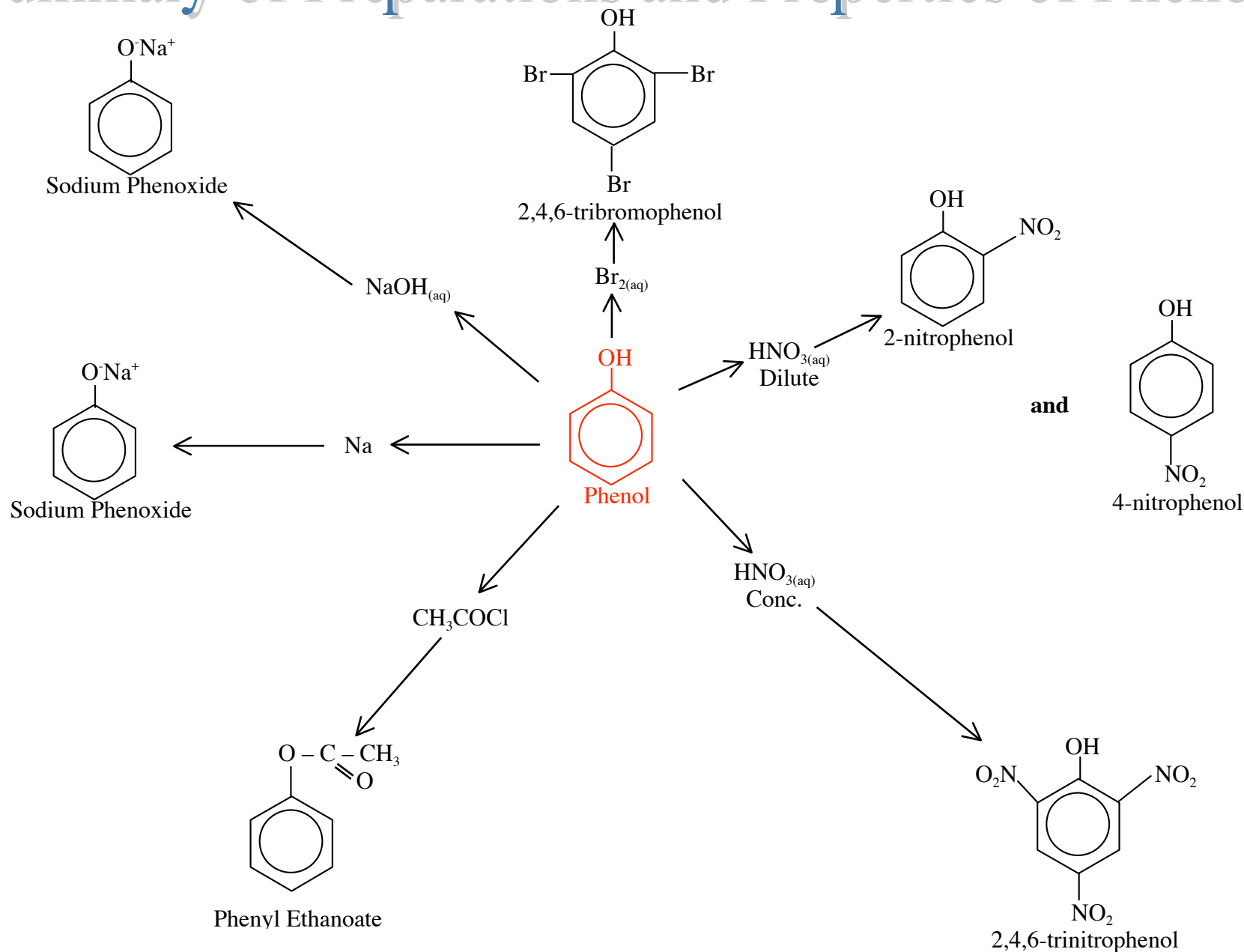


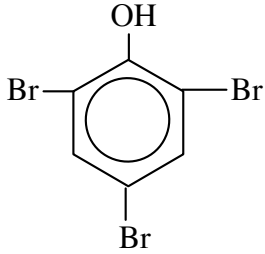
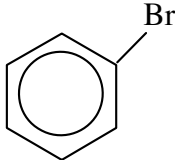
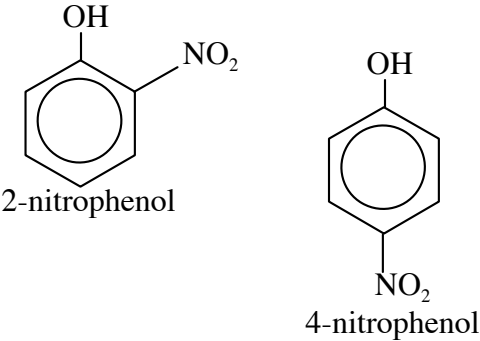
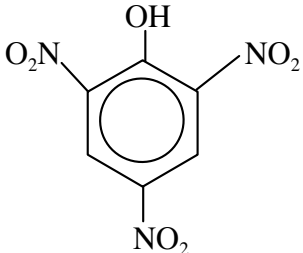
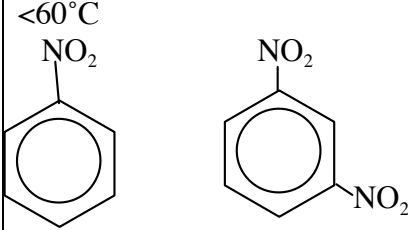
Summary of Preparations and Properties of Ethanol



Summary of Preparations and Properties of Phenol



Comparison Between Phenol and Benzene

Reactant	Reaction Conditions		Substitution Products	
	Phenol	Benzene	Phenol	Benzene
Br ₂	<ul style="list-style-type: none"> Aqueous Cold Room Temperature 	<ul style="list-style-type: none"> Liquid Br₂ FeBr₃ Catalyst 	 <p>2,4,6-tribromophenol</p>	
Dilute HNO ₃	<ul style="list-style-type: none"> Room Temperature 	<ul style="list-style-type: none"> No reaction 	 <p>2-nitrophenol 4-nitrophenol</p>	
Conc. HNO ₃	<ul style="list-style-type: none"> Room Temperature 	<ul style="list-style-type: none"> Concentrated H₂SO₄ Heat 	 <p>2,4,6-trinitrophenol</p>	<p><60°C</p>  <p>Nitrobenzene 1,3-dinitrobenzene</p>