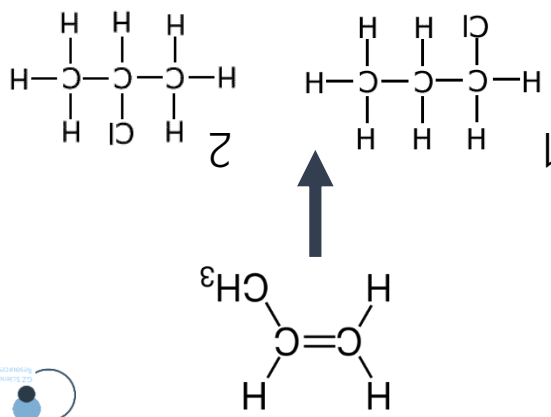
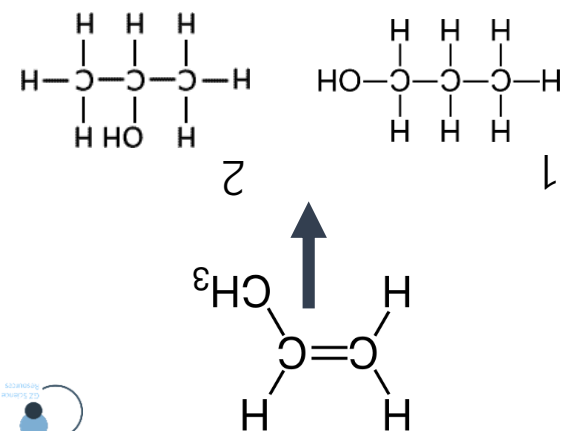


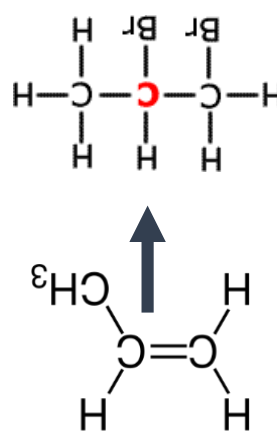
Reaction type	addition
Reagent/ Conditions	H_2 (Pt) with Heat
Starting compound	propene
Final compound	propane



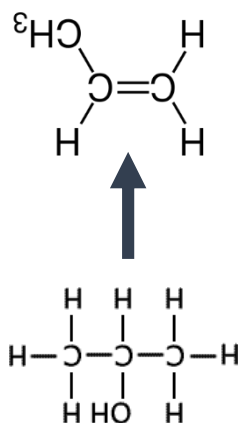
Reaction type	addition
Reagent/ Conditions	HCl
Starting compound	propene
Final compound	1. Minor: 1-chloropropane 2. Major: 2-chloropropane



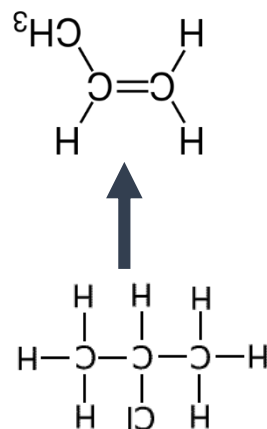
Reaction type	addition
Reagent/ Conditions	$\text{H}_2\text{O}/\text{H}^+$ heat
Starting compound	propene
Final compound	1. Minor: propan-1-ol 2. Major: propan-2-ol



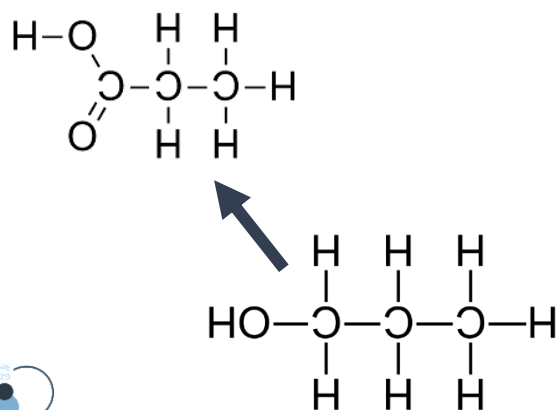
Reaction type	addition (double)
Reagent/ Conditions	Br_2
Starting compound	propene
Final compound	1,2-dibromopropane



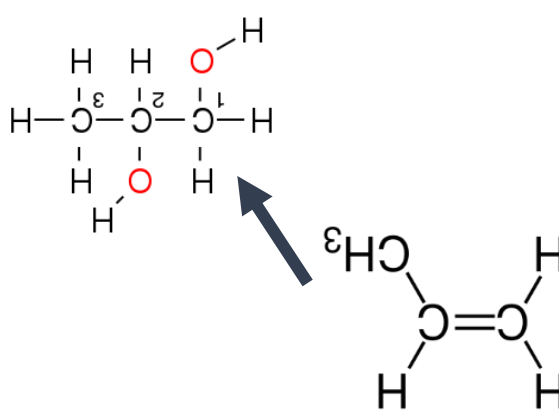
Reaction type	elimination
Reagent/ Conditions	Conc. H_2SO_4 with Heat
Starting compound	Propan-2-ol
Final compound	propene



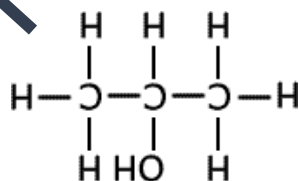
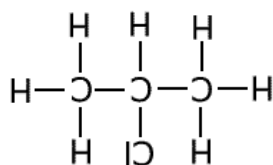
Reaction type	elimination
Reagent/ Conditions	Alcoholic KOH reflux
Starting compound	2-chloropropane
Final compound	propene



Reaction type	oxidation
Reagent/ Conditions	$\text{Cr}_2\text{O}_7^{2-}/\text{H}^+$ reflux
Starting compound	Propan-1-ol
Final compound	Propanoic acid



Reaction type	oxidation
Reagent/ Conditions	$\text{MnO}_4^-/\text{H}^+$ reflux
Starting compound	Propene
Final compound	Propan-1,2-diol



Reaction type

substitution

Reagent/
Conditions

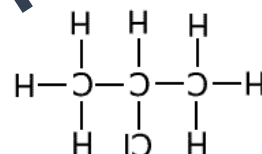
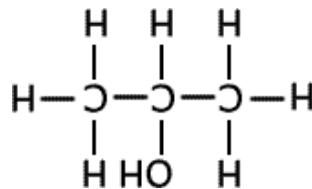
SOCl_2 or PCl_3 or PCl_5
reflux

Starting compound

Propan-2-ol

Final compound

2-chloropropane



Reaction type

substitution

Reagent/
Conditions

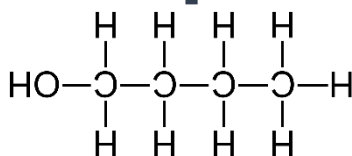
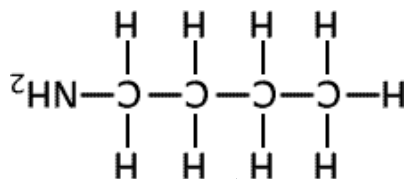
KOH (aq) reflux

Starting compound

2-chloropropane

Final compound

Propan-2-ol



Reaction type

substitution

Reagent/
Conditions

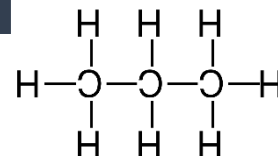
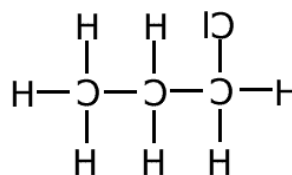
NH_3 warm

Starting compound

Butan-1-ol

Final compound

1-aminobutane



Reaction type

substitution

Reagent/
Conditions

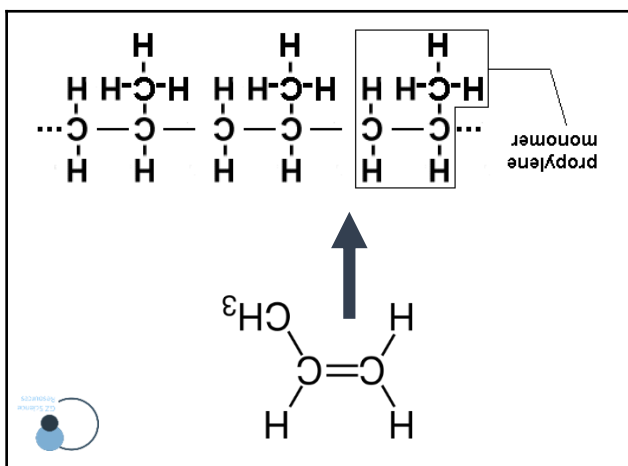
Br_2 , Cl_2 + UV light

Starting compound

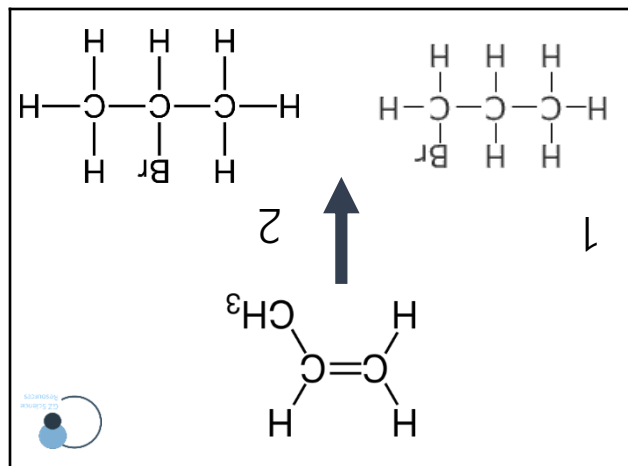
propane

Final compound

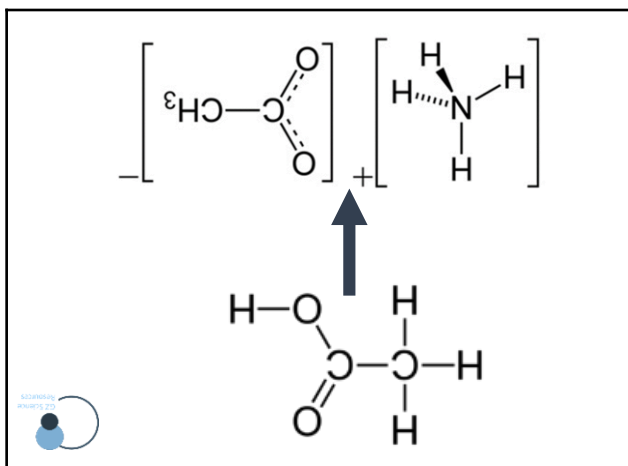
1-chloropropane



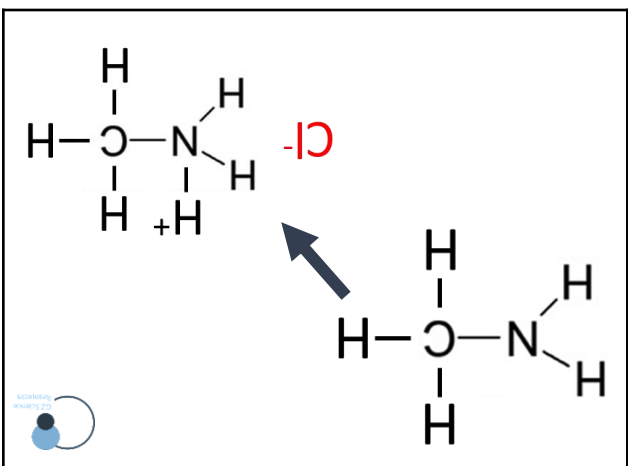
Reaction type	Addition polymerisation
Reagent/ Conditions	Often heat and high pressure
Starting compound	Propene (monomer)
Final compound	Polypropene (polymer)



Reaction type	addition
Reagent/ Conditions	HBr
Starting compound	propene
Final compound	1. Minor: 1-bromopropane 2. Major: 2-bromopropane



Reaction type	acid-base reaction
Reagent/ Conditions	NH ₃
Starting compound	Ethanoic acid
Final compound	Carboxylate ion (or ammonia salt)



Reaction type	acid-base reaction
Reagent/ Conditions	HCl
Starting compound	1-amino butane
Final compound	Amine ion (or ammonia ion)