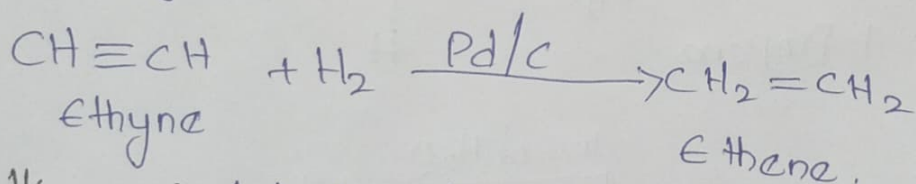


ALKENES

- Unsaturated hydrocarbon which have double bond.
- General molecular formula C_nH_{2n}
- C-C bond hybridization 1.34 \AA°
- sp^2 hybridization.
- When we treated Alkene with chlorine, oily products are obtained. So Alkenes are also known as olefins.
- Show chain, positional and geometrical isomerism.

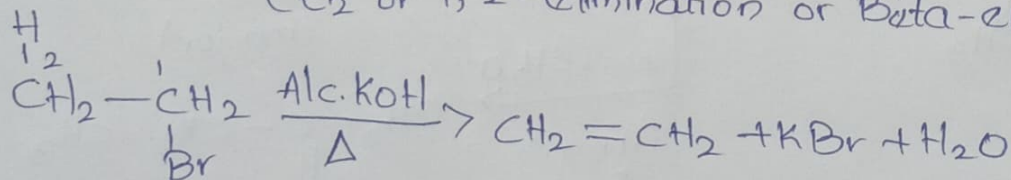
Preparation :-

1. From Alkynes :- Alkynes on partial reduction with partially deactivated palladised charcoal known as Lindlar's catalyst give alkenes.

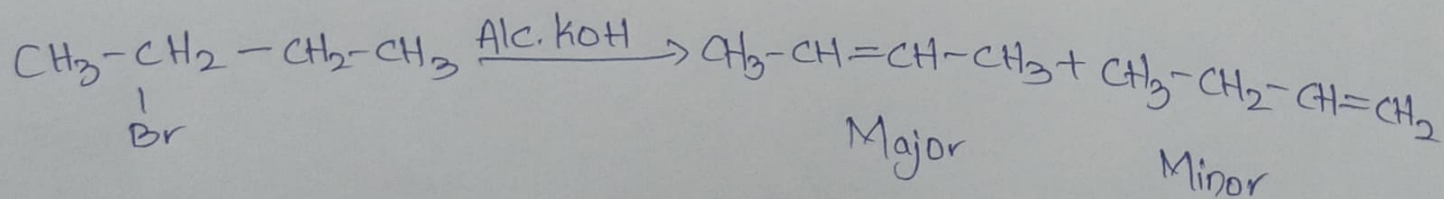


2. From Haloalkanes :- dehydrohalogenation.

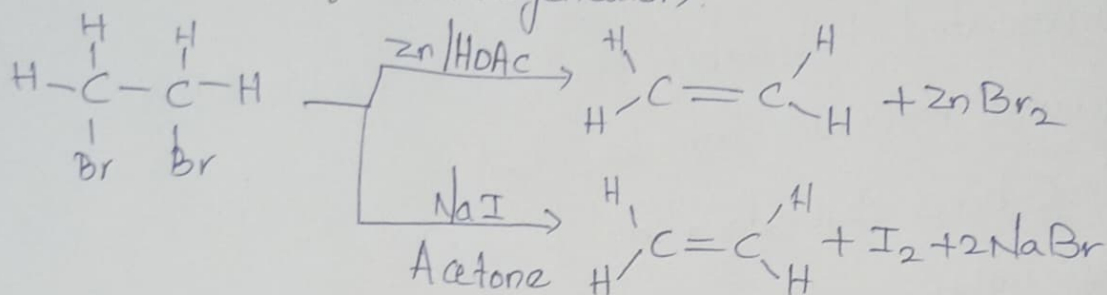
(E_2 or 1,2-elimination or Beta-elimination)



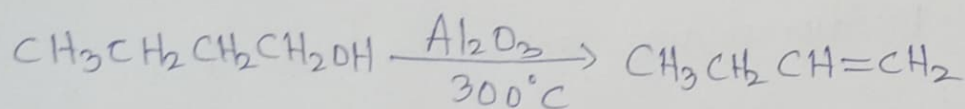
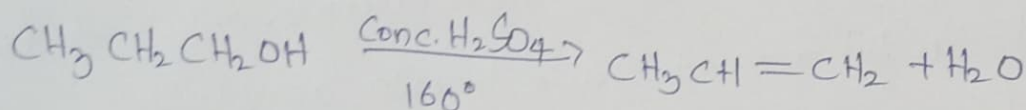
Predominant formation of a substituted alkene is formed according to saytzeff's rule.



3. From Dihalalkanes:- dehalogenation.



4. From Alcohols:- Dehydration (E1-elimination)



Mechanism:-

