

CHAPTER 13

HYDROCARBONS

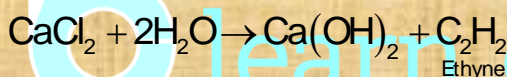
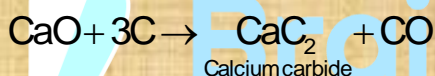
Alkynes:

- Alkynes are unsaturated hydrocarbons having atleast one triple bond. Their general formula is C_nH_{2n-2} .
- Triple bond in alkynes possess one sigma (σ) bond and two (π) bonds. Carbon atom containing triple bond is SP hybridised with linear shape.
- Carbon – carbon triple bond is shorter than double as well as single bond.

Preparation:

From Calcium carbide:

Calcium carbide is hydrolysed to obtained ethyne calcium carbide is obtained by heating quick lime with coke.



From Vicinal dihalides:

Vicinal dihalides on treatment with alcoholic potassium hydroxide followed by treatment with sodamide undergoes dehydrohalogenation to give alkynes.

