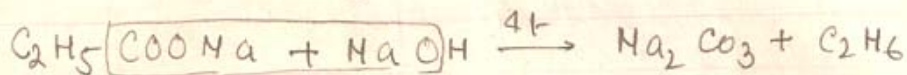


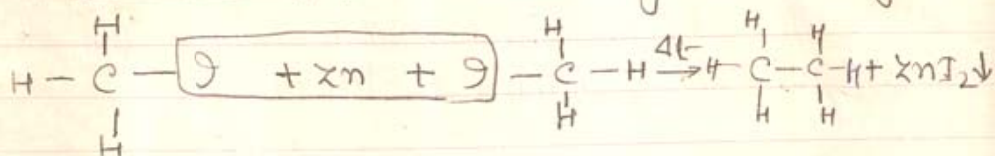


W.H
1. Preparation - Ethane (C_2H_6)
When Sodium Propionate is heated with soda lime we get Ethane.

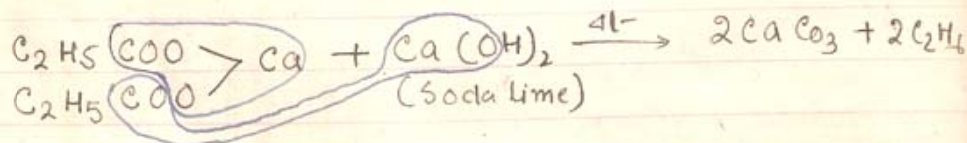


2) Frankland reaction

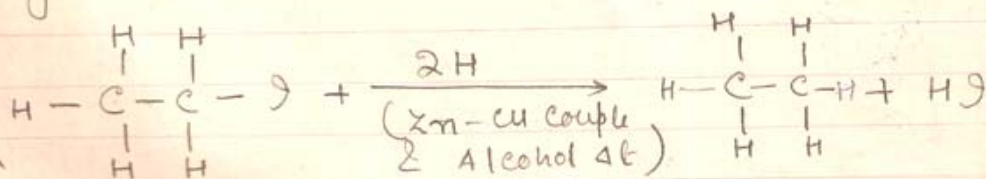
When Methyl Iodide/Methyl halide is heated with zinc dust in a closed vessel we get Ethane gas



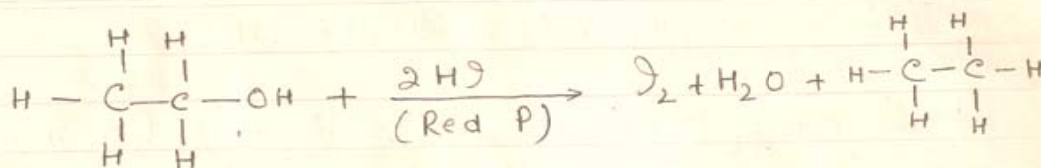
3) When Calcium Propionate is heated with soda lime we get Ethane



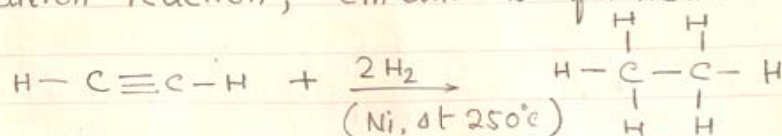
4) When Ethyl Iodide is heated with zinc copper couple and Alcohol, due to nascent hydrogen we get Ethane.



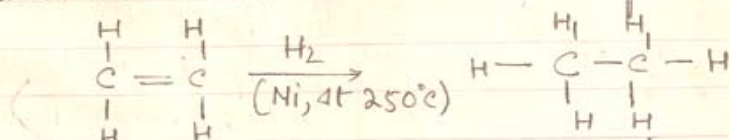
5) When Ethyl Alcohol is treated with HI in the presence of red P as a catalyst, due to reduction Ethane is formed.



When Acetylene gas is heated with hydrogen, in the presence of nickel catalyst at 250°C , due to addition reaction, Ethane is formed.



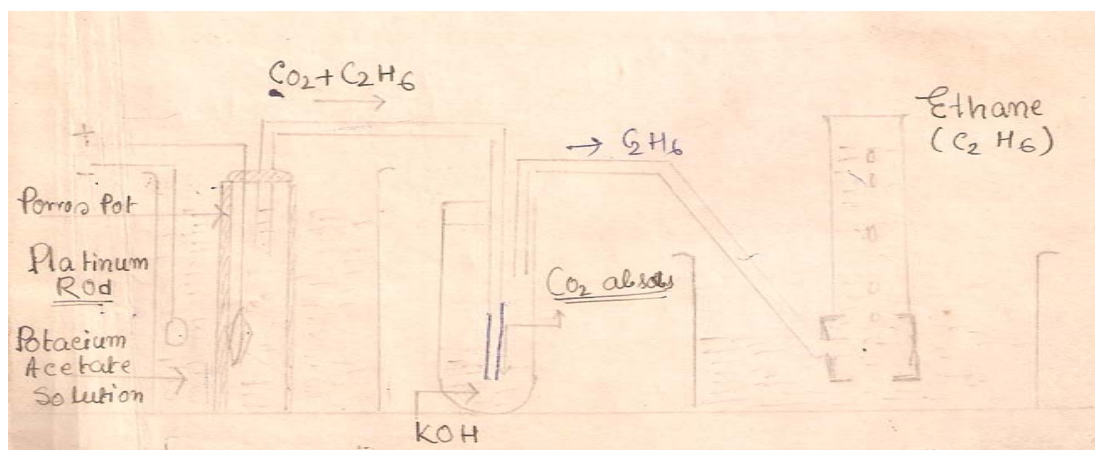
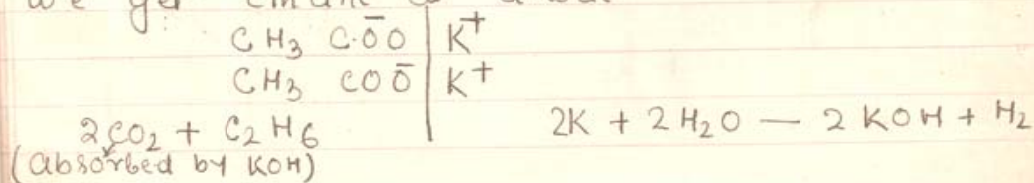
When Ethylene gas is heated with hydrogen in the presence of Ni catalyst 250°C due to addition reaction Ethane is formed



Imp1

Kolbe's reaction / synthesis

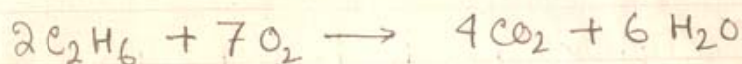
When Potassium Acetate solution is electrolysed we get Ethane at anode





CHEMICAL PROPERTIES

① Burning/Oxidation - On heating burning it gives a green flame and CO_2 is formed.



② Substitution reaction

(i)

