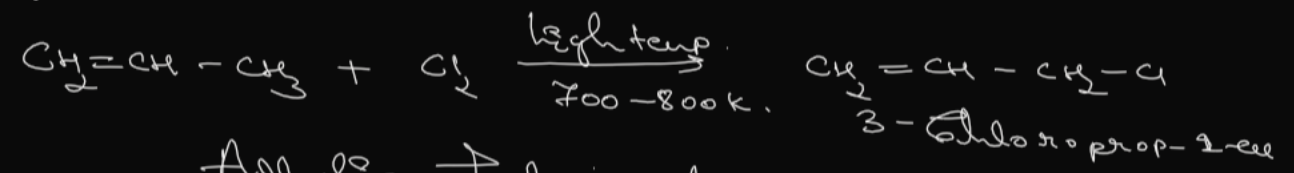
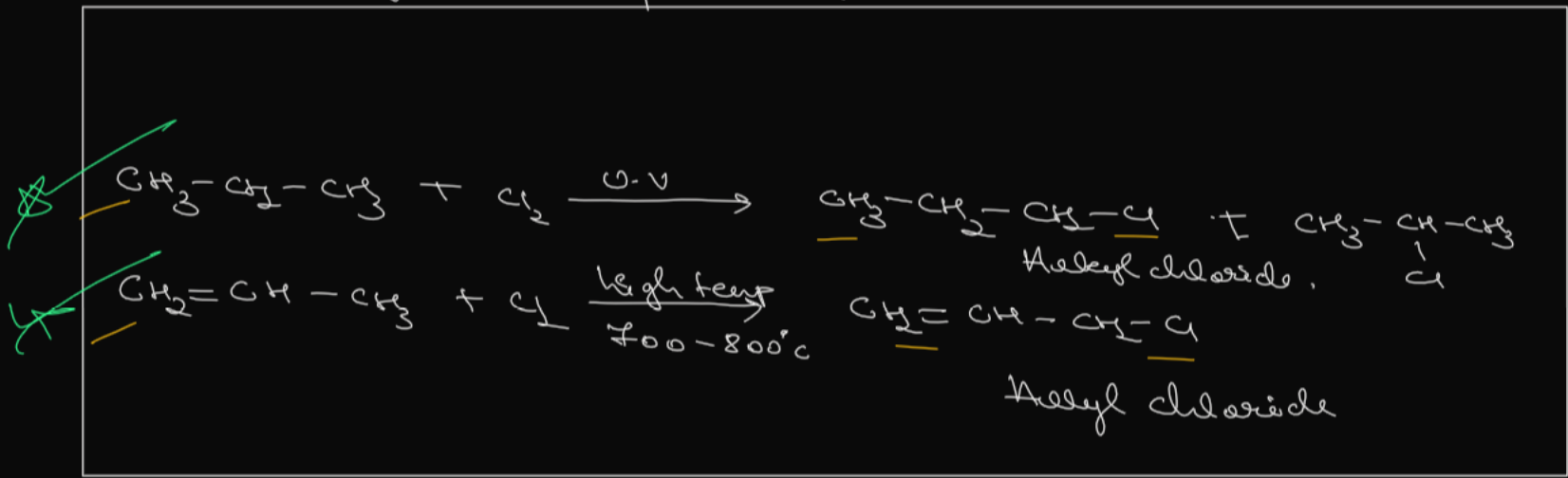




Allylic Substitution.

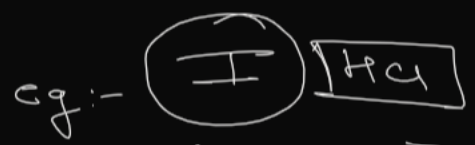
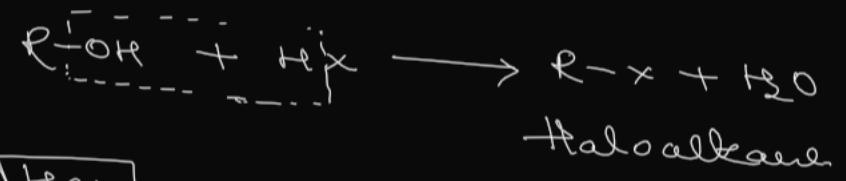


Allylic Halogenation



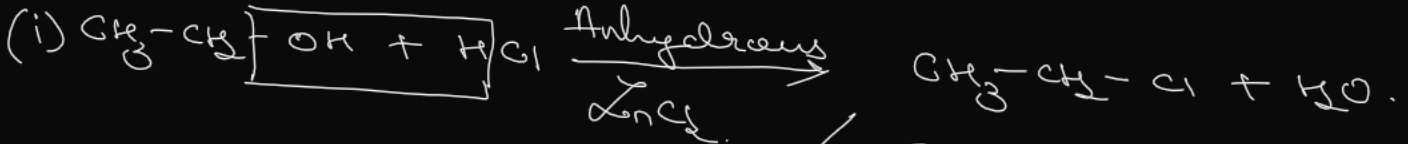
2) Tertiary Alcohols :-

(a) By the Action of halogen Acid (HX) :-



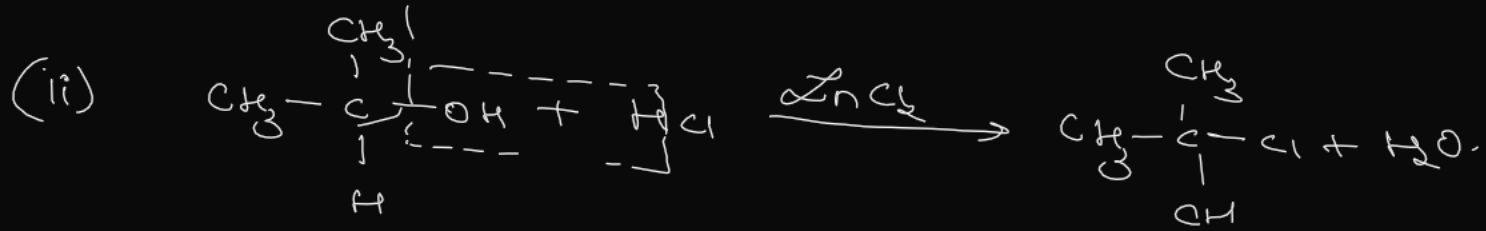


Halalkane



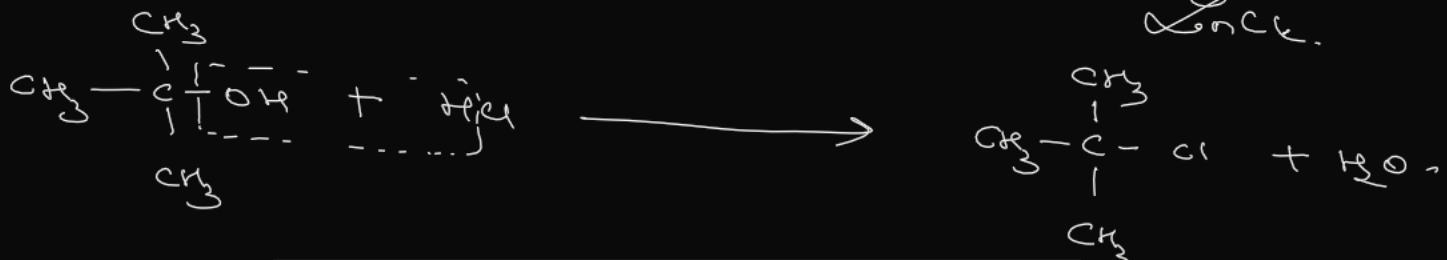
(Frover's process)

* ZnCl_2 is a Lewis Acid which helps in breaking of C-O bond.



Isopropyl Alcohol.

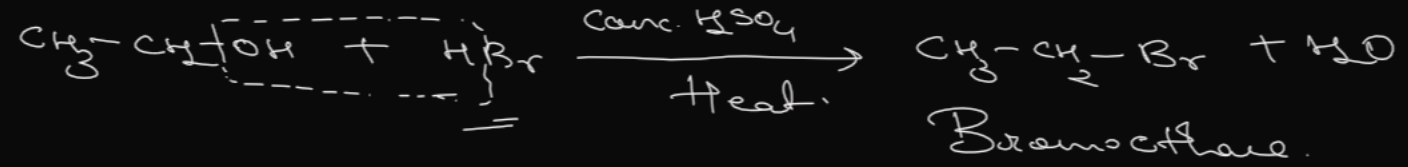
* Tertiary alcohol are very reactive hence do not require ZnCl_2 .



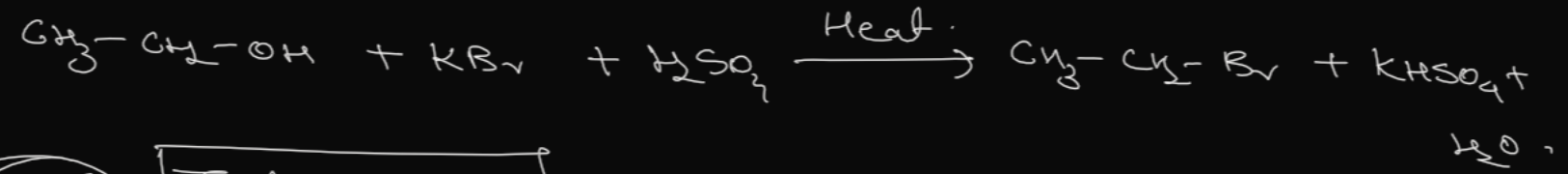


II

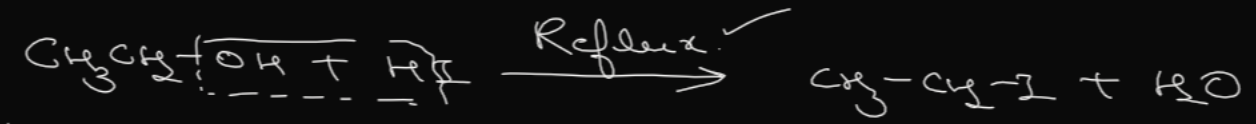
HBr Bromoalkane.



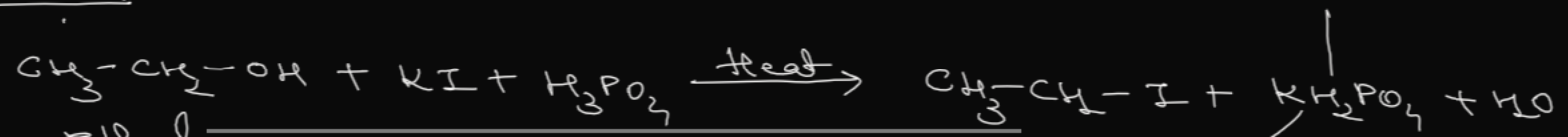
* HBr is also prepared by the action of conc. H₂SO₄ on KBr.
 → prepared at the moment in (lab)



III Iodoalkanes HS

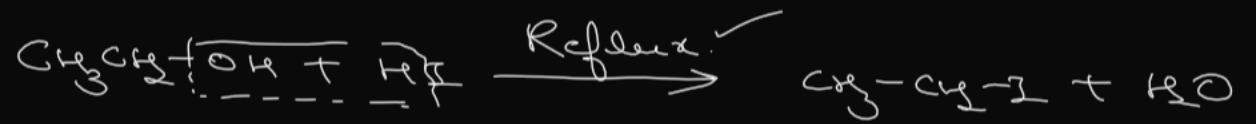


Density

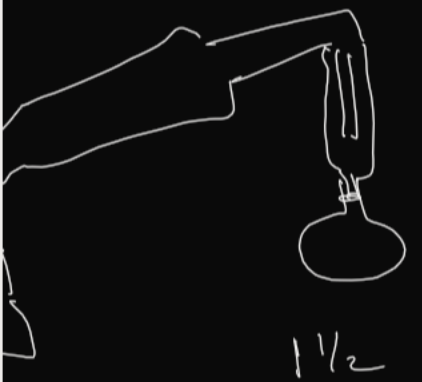
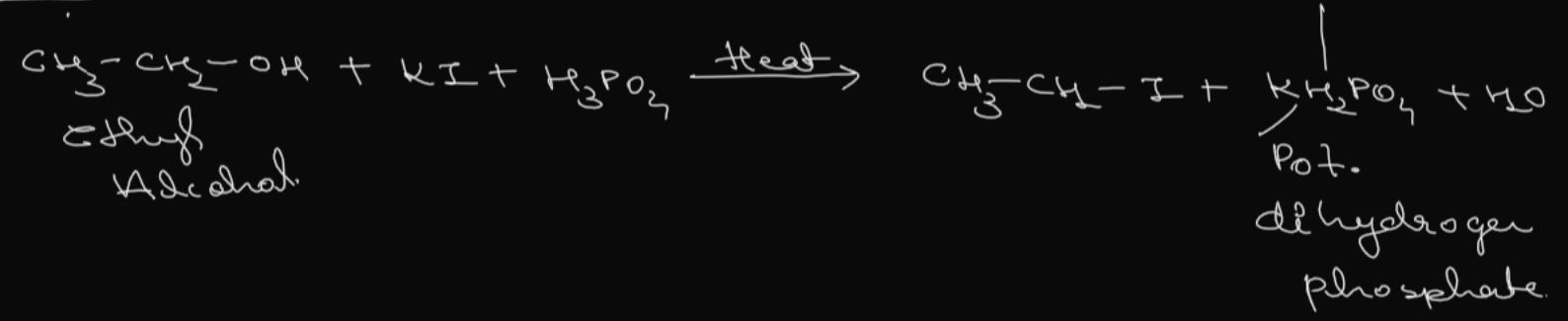




1.11 Iodoalkanes HS



Sensitivity



1/2

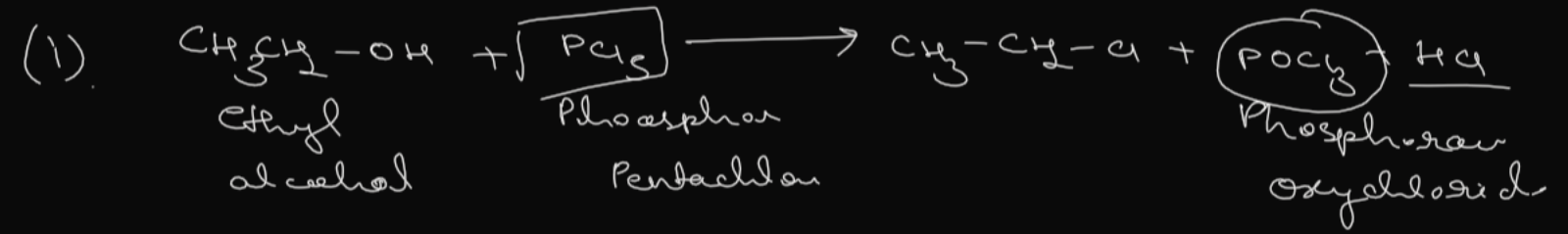
* Can H_2SO_4 with secondary and tertiary alcohol on heating undergoes elimination and form alkene

Reactivity of Alcohol (Carbocation) C^+ Cfo
Stability C^+ $\rightarrow 3^\circ > 2^\circ > 1^\circ$
Reactivity of $3^\circ > 2^\circ > 1^\circ$



By the Action of Phosphorus Halides. (Sendan) ~~→ HCERT~~ → M.C.E.

1) Chloroalkanes :-



(ii) Bromoalkane and Iodoalkane.
 PBr_3 PI_3 → in situ.

In situ PBr_3 → Action of red Phosphorus over Br_2

