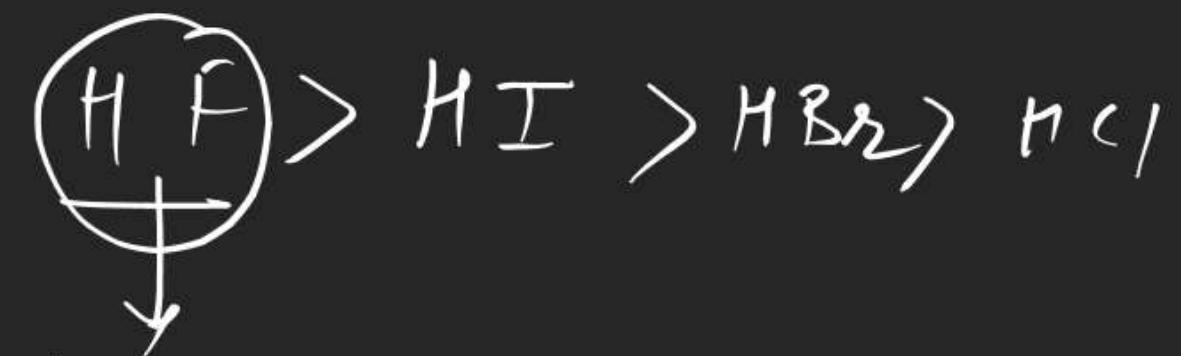


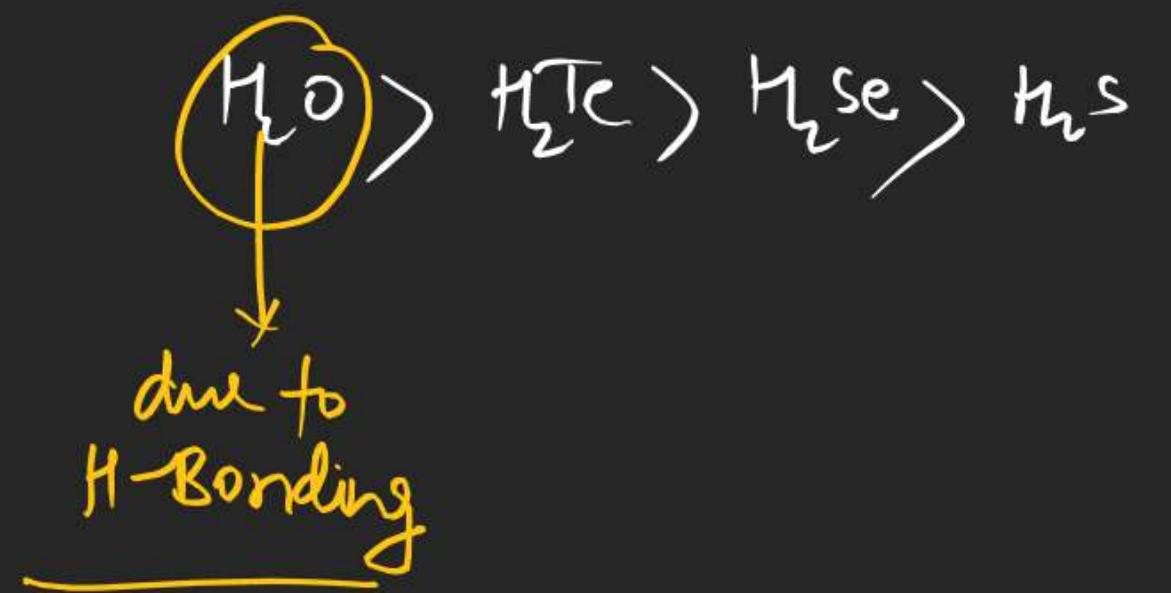
hydrogen bonding

$B \cdot P \propto$  mol-weight

$B \cdot P \propto$  att. b/w molecules



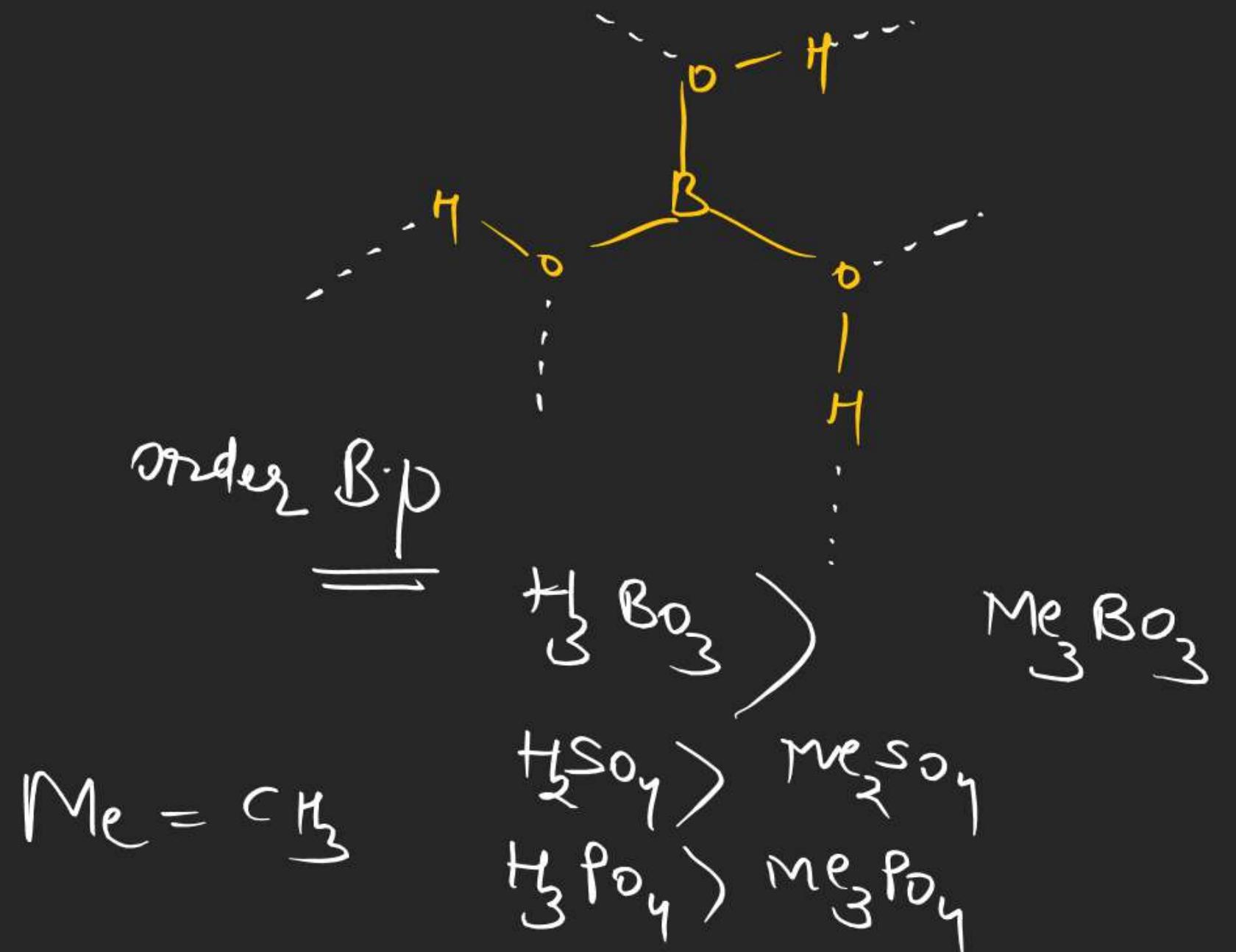
due to H-Bonding

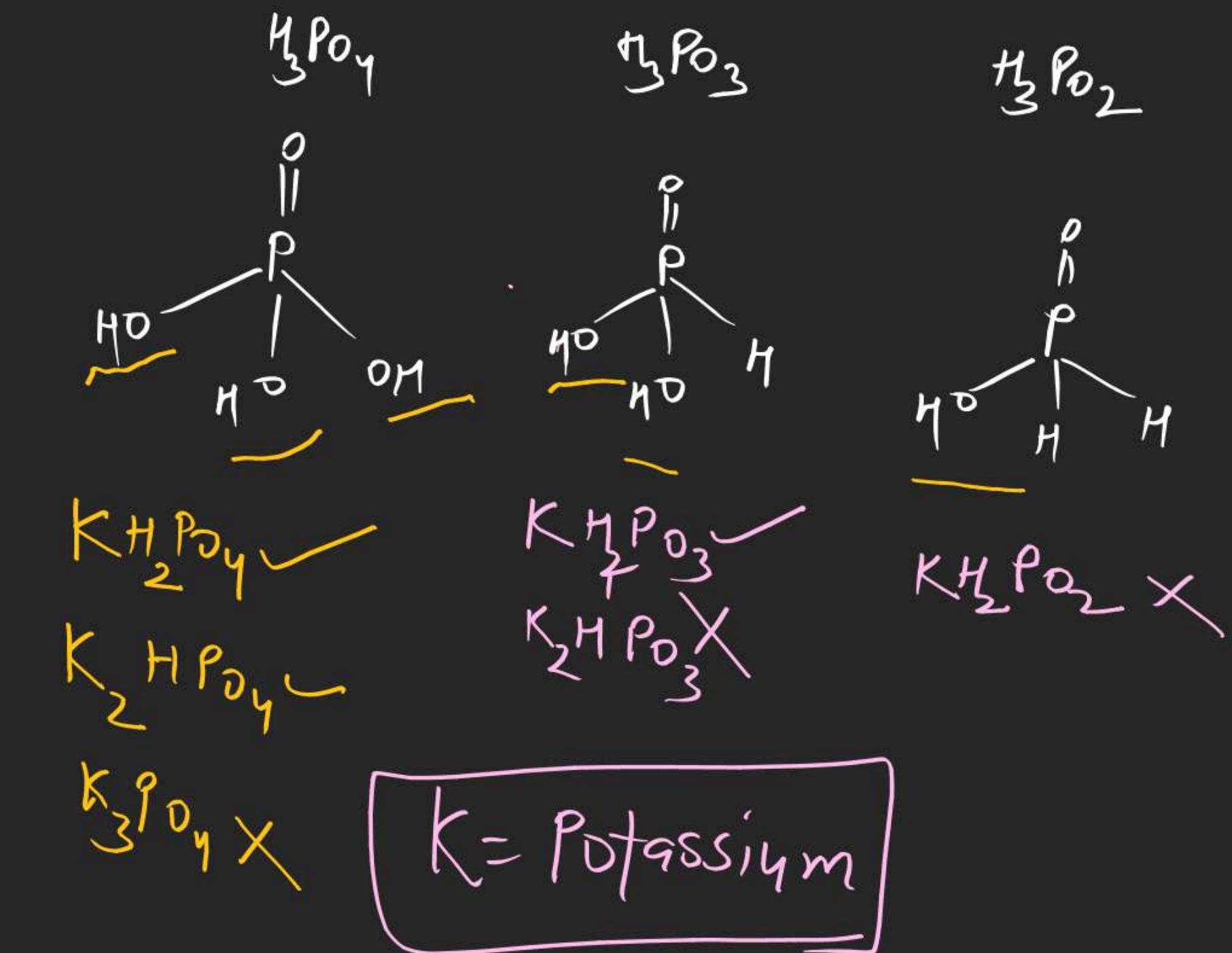
$$\text{H}_2\text{O} > \text{H}_2\text{S} > \text{H}_2\text{Se} > \text{H}_2\text{Te}$$


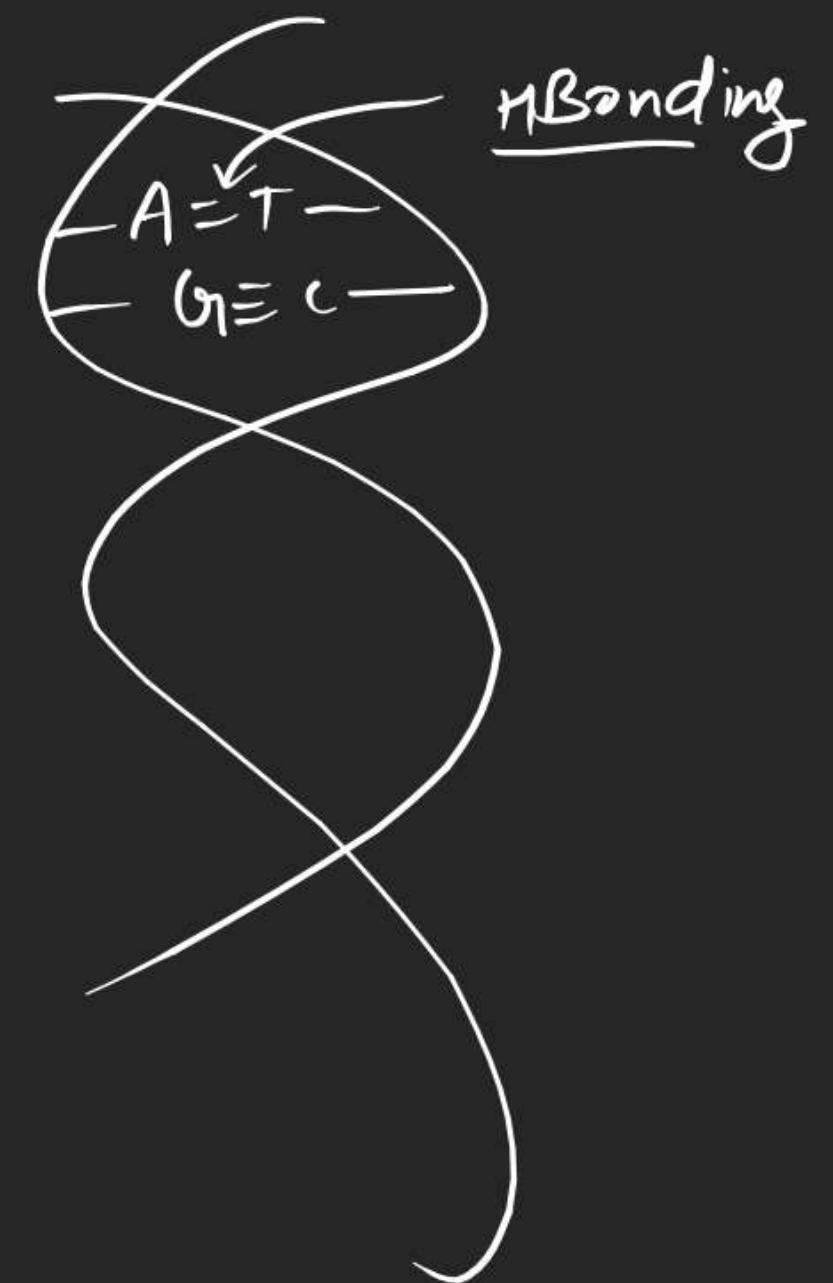
out      B.p order



due to H-Bonding



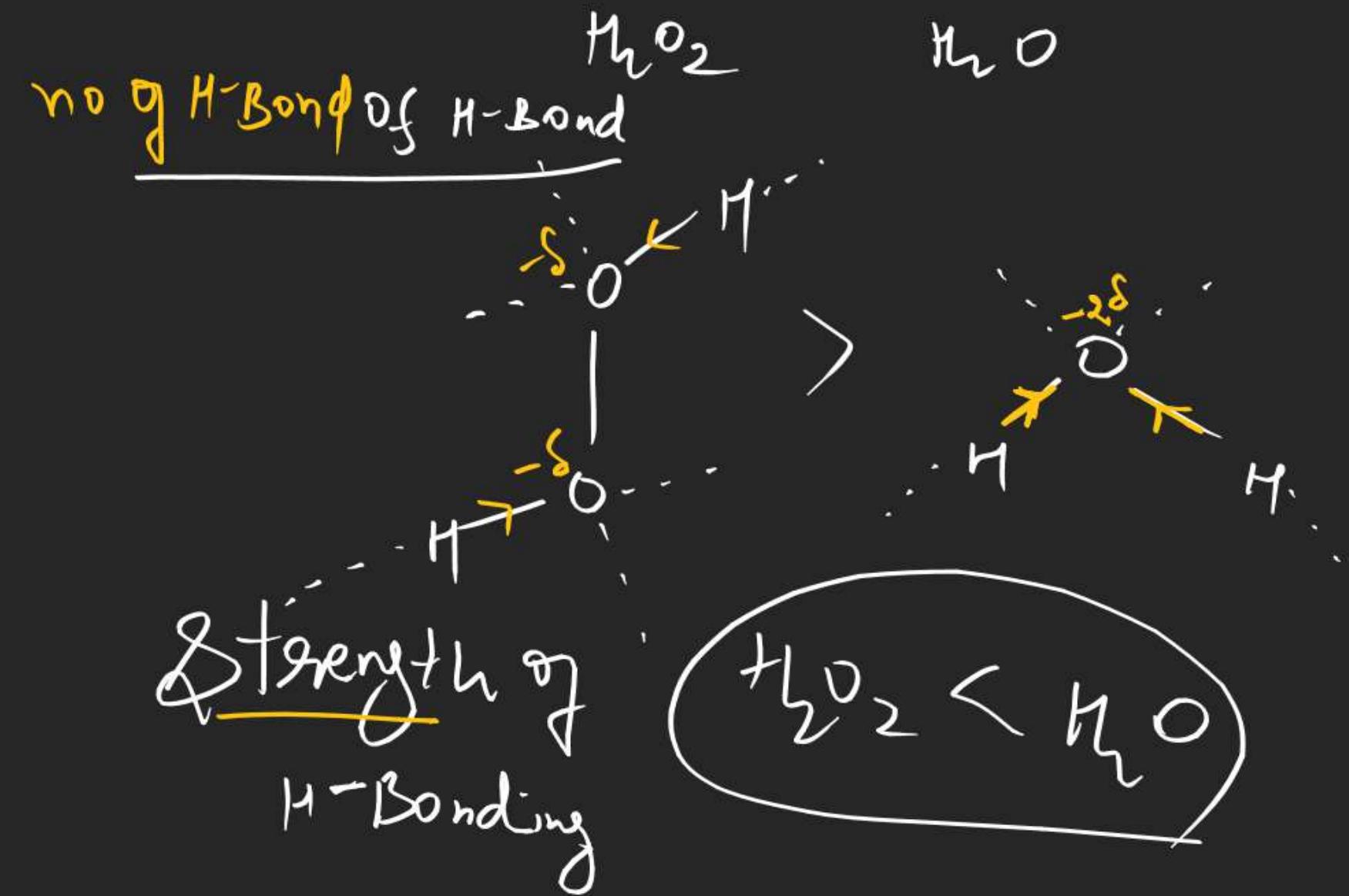




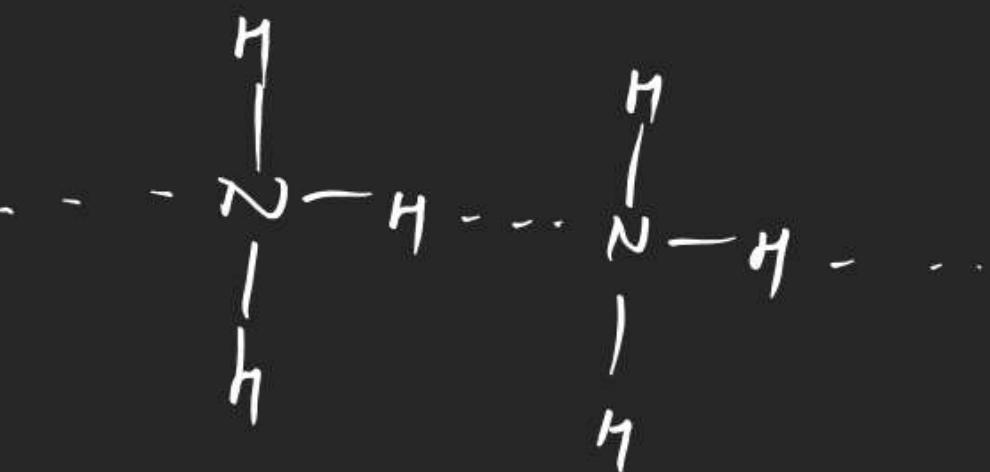
Critical temp  $\propto$  att b/w molecule

order.

$$\frac{O}{C} < \frac{O_2}{m_O}$$



order of B.P

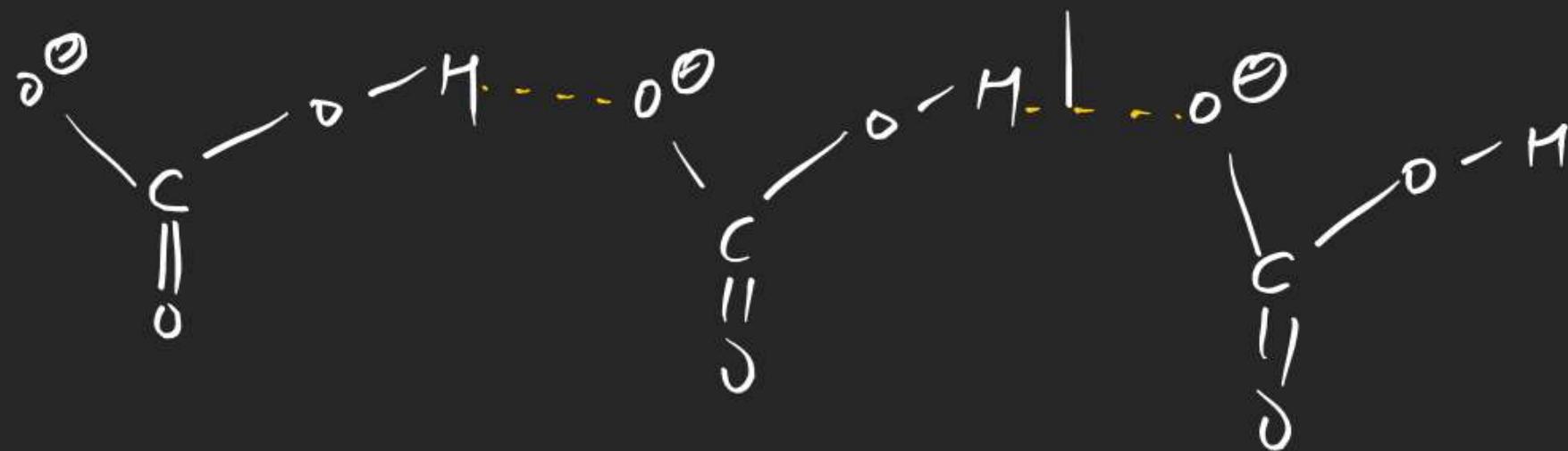


## Strength of H-Bonding

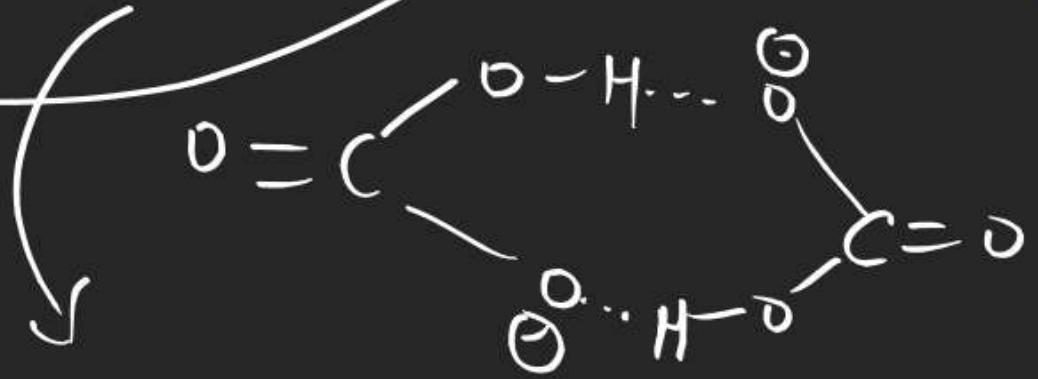


$\text{NaHCO}_3(s)$ 

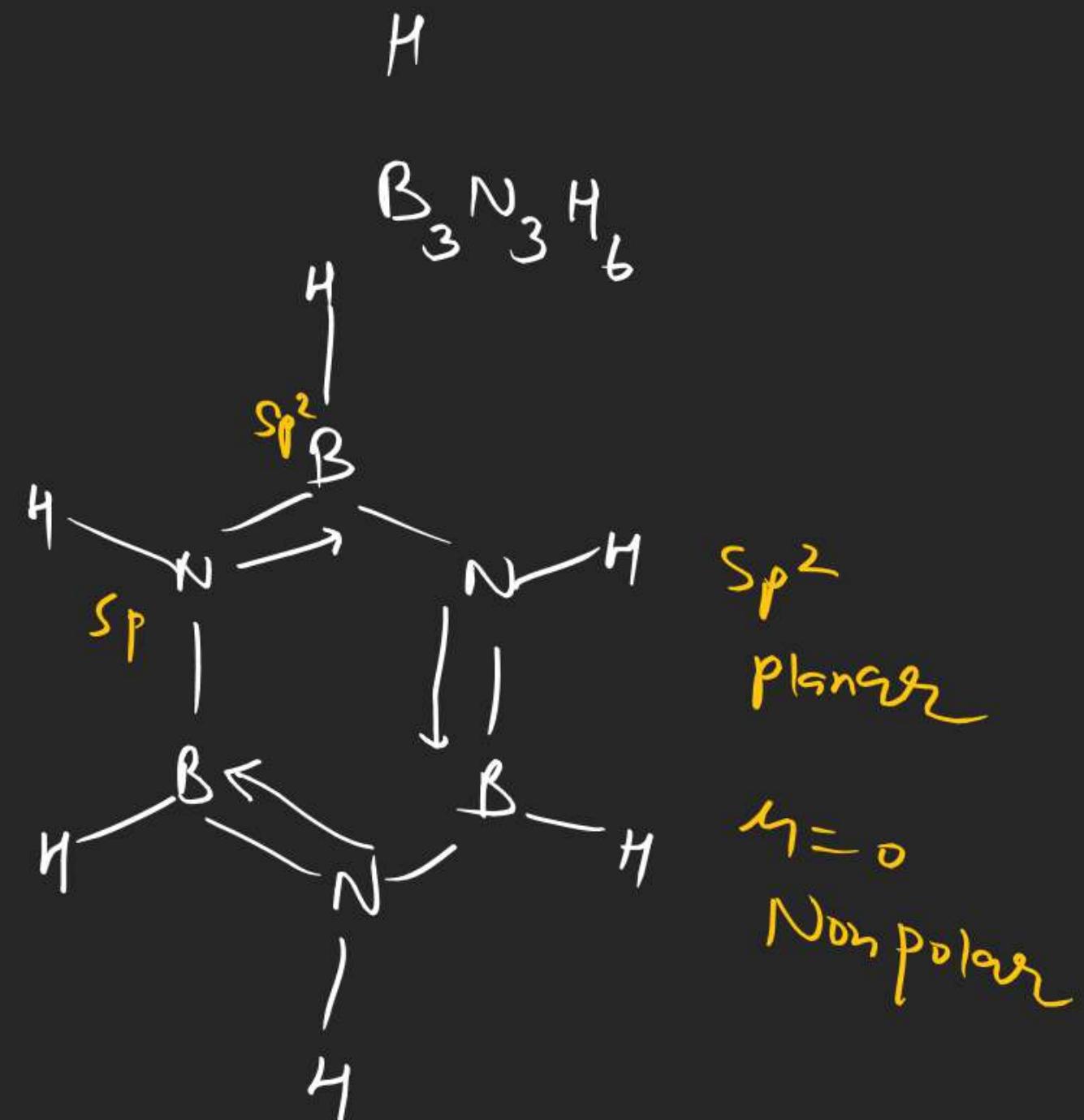
Ion-dipole (H Bonding)

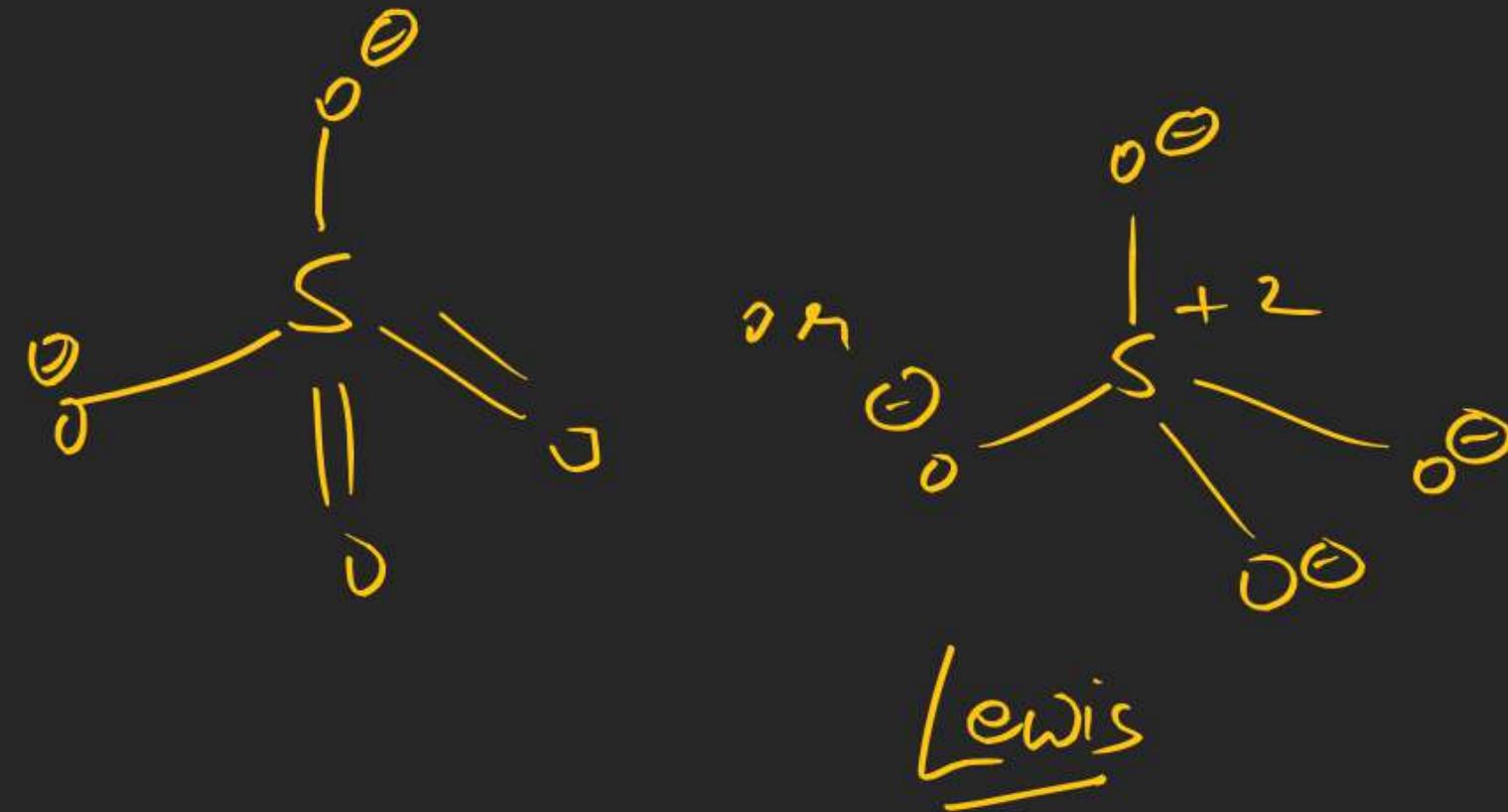
 $\text{NaHCO}_3(\text{solid})$  $\text{KHCO}_3$   $\text{RbHCO}_3$  ( $\text{NH}_4\text{CO}_3$ )

Solid Polymeric Structure of  $\text{NaHCO}_3$   
due to Massive H-Bond [∞ - H-Bonding]



compact H-Bonding





$XeF_8^{-2} \Rightarrow$  Square antiprismatic

