
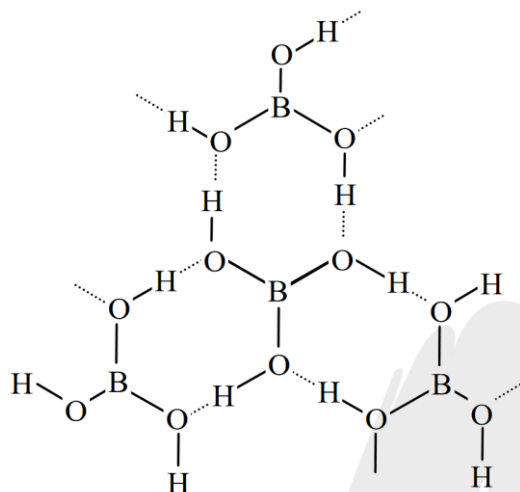


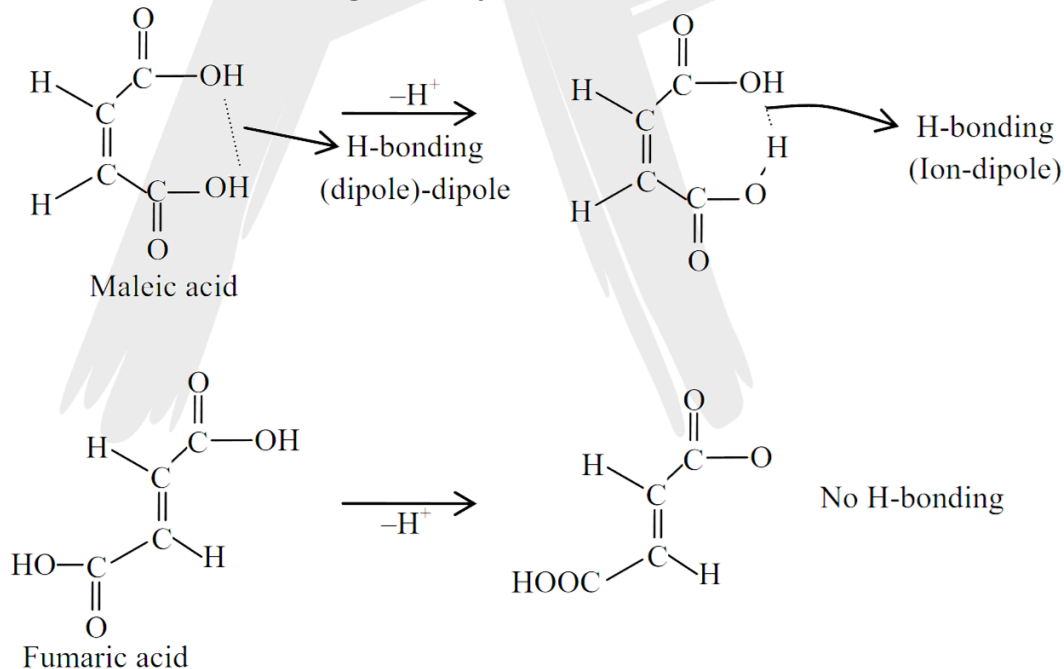
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1.

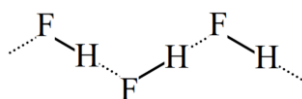


2. Inter molecular H-Bonding in case of para nitro phenol is strong enough to increase boiling point which is not favoured in o-nitro phenol.


3. Maleic acid anion gets stabilize due to intra molecular H-bonding which is not possible in anion of Fumaric acid. SoH releasing tendency is more in case of maleic acid.



4. Due to strong H-Bonding in H – F, there is strong intermolecular attraction force.



5. Due to H-Bonding in  $NH_3$ , it can be easily liquify.

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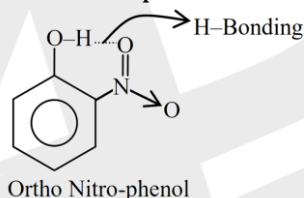
6. Density of ice is higher than that of water due to cage like structure of ice volume of ice increases and density decreases.
7. On heating ice in temperature range  $0 - 4^{\circ}\text{C}$  H-bonds of ice break down, which decreases volume, hence density of  $\text{H}_2\text{O}$  increases. On heating ice after  $4^{\circ}\text{C}$  thermal vibrations of  $\text{H}_2\text{O}$  molecules increases which increases effective volume of ice, so density of ice again decreases.
8.  $\text{H} - \text{I}$  bond is weak as compare to  $\text{H} - \text{F}$  so it can be dissociated easily and can give  $\text{H}^+$  easily.
9. The organic matter in wood participate in H-bonding with water molecules in ice-cream.



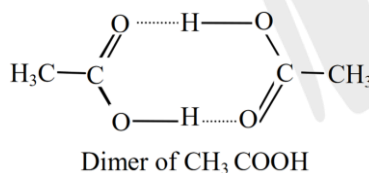
H-bonding

But  $\text{K}\text{H}\text{Br}_2$  &  $\text{K}\text{HI}_2$  can't form H-Bond.

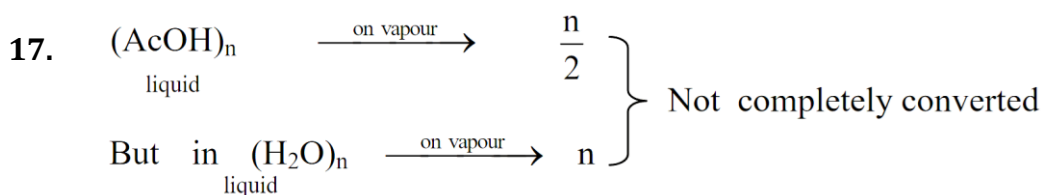
11. In o-Nitrophenol intra molecular H-bond is present which decreases it's solubility in water.



12. In o-hydroxy benzaldehyde intramolecular H-bond is present which is less stronger than intermolecular H-bond in p-hydroxy benzaldehyde.
13. Extent of H-bonding in glycerol is more as compare to ethanol so it is more viscous.
14. Due to H-bonding in  $\text{H}_2\text{O}$
15. Due to H-bonding in acetic acid it forms dimer so overall molecular weight is just double of original



16. Due to bigger size of 'Cl' atom it's interaction is not enough to evolve the amount of energy which lies in the range of H-bond.



Here all  $\text{H}_2\text{O}$  molecule gets vaporised. So change is more

18. As extent of H-bond is more in  $\text{H}_2\text{O}$  as compare to  $\text{HF}$ , heat of vaporisation of water is higher than  $\text{HF}$ .