

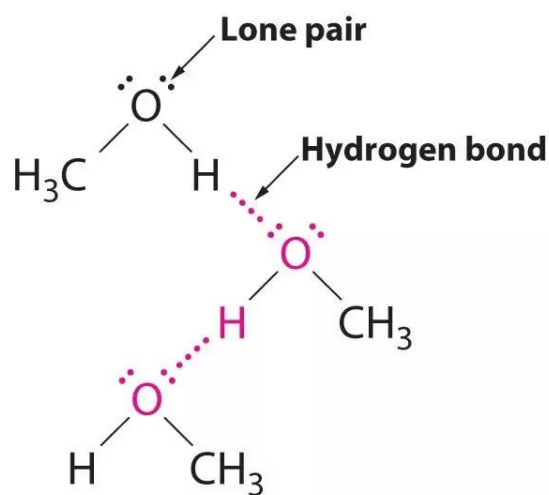
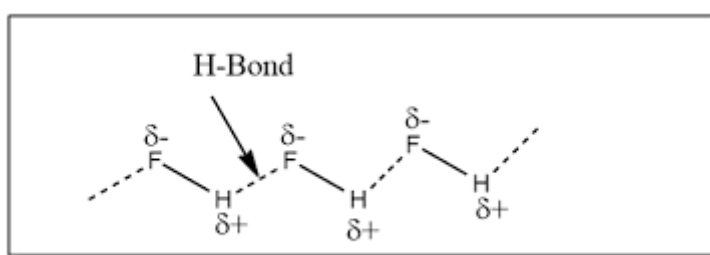
Question 10

10. Which of the following compounds would be expected to form intermolecular hydrogen bonds in the liquid state?

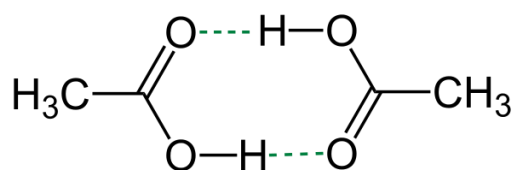
- (a) CH_3OCH_3 (dimethyl ether)
- (b) CH_4
- (c) HF
- (d) $\text{CH}_3\text{CO}_2\text{H}$ (acetic acid)
- (e) Br_2
- (f) CH_3OH (methanol)

Answer:

HF , $\text{CH}_3\text{CO}_2\text{H}$, CH_3OH because H is attached to the most electronegative O, F atoms.



Hydrogen bonding in methanol



Hydrogen bonding in Acetic acid