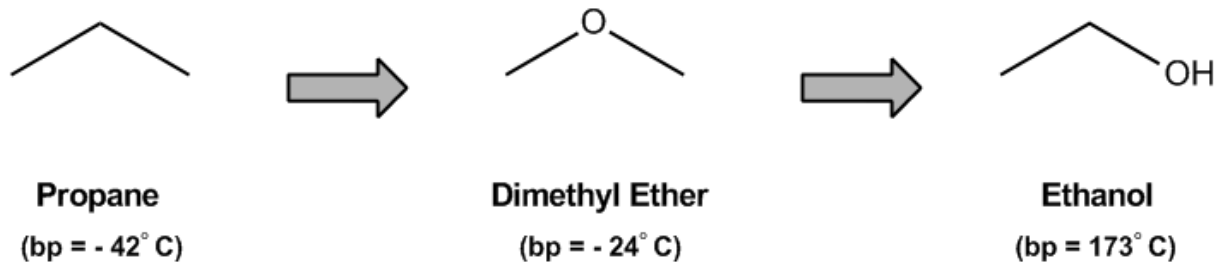


## CONCEPT: INTERMOLECULAR FORCES

- IMF's are what make molecules \_\_\_\_\_. Without them everything would be \_\_\_\_\_



- Boiling point / melting point questions are always directly referring to the strength of \_\_\_\_\_ between molecules.

1. Hydrogen Bonding – (H) Bound to small, highly electronegative atoms: \_\_\_\_\_

2. Dipole-dipole (**net dipole** force)

3. Van der Waals (London Dispersion Forces)

□ Increase with:

a. Size

b. Ring > Chain > Branched

**PRACTICE:** Which of the following pairs of molecules would have the highest boiling point?

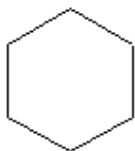
1.



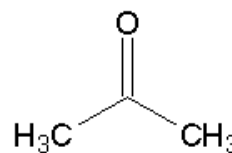
OR



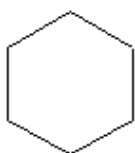
2.



OR



3.



OR



4.



OR

