Intermolecular Forces Worksheet

1) Using your knowledge of molecular structure, identify the main intermolecular force in the following compounds. You may find it useful to draw Lewis structures to find your answer.

   a) PF_3 _____

   b) H_2CO _____

   c) HF _____

2) Explain how dipole-dipole forces cause molecules to be attracted to one another.

3) Rank the following compounds from lowest to highest boiling point: calcium carbonate, methane, methanol (CH_4O), dimethyl ether (CH_3OCH_3).

4) Explain why nonpolar molecules usually have much lower surface tension than polar ones.

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