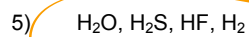
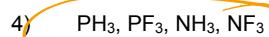
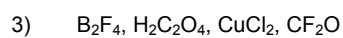
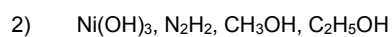


Ranking Molecules by Increasing Polarity

In each of the following problems, rank the molecules from lowest to highest polarity:



Ranking Molecules by Increasing Polarity

Solutions

In each of the following problems, rank the molecules from lowest to highest polarity:

- 1) PF_3 , LiOH , SF_2 , NF_3
 $\text{NF}_3 < \text{PF}_3 < \text{SF}_2 < \text{LiOH}$

- 2) Ni(OH)_3 , N_2H_2 , CH_3OH , $\text{C}_2\text{H}_5\text{OH}$
 $\text{N}_2\text{H}_2 < \text{C}_2\text{H}_5\text{OH} < \text{CH}_3\text{OH} < \text{Ni(OH)}_3$

- 3) B_2F_4 , $\text{H}_2\text{C}_2\text{O}_4$, CuCl_2 , CF_2O
 $\text{B}_2\text{F}_4 < \text{H}_2\text{C}_2\text{O}_4 < \text{CF}_2\text{O} < \text{CuCl}_2$

- 4) PH_3 , PF_3 , NH_3 , NF_3
 $\text{PH}_3 < \text{NH}_3 < \text{NF}_3 < \text{PF}_3$

- 5) H_2O , H_2S , HF , H_2
 $\text{H}_2 < \text{H}_2\text{S} < \text{H}_2\text{O} < \text{HF}$