

Chemistry 122: Chemical Principles II

Practice problems: VSEPR and polarity

For each molecule, determine the shape and indicate whether the molecule will be polar or non-polar.

1. SO_2
2. CCl_4
3. CHCl_3
4. TeCl_2
5. NH_3
6. CO_2
7. BF_3

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Answers:

1. bent, polar (slightly)
2. tetrahedral, non-polar
3. tetrahedral, polar
4. bent, polar
5. trigonal pyramidal, polar
6. linear, non-polar
7. trigonal planar, non-polar