

Polarity Worksheet

For each of the following pairs of molecules, determine which is most polar and explain your reason for making this choice:

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|--------------------------|----------------|--------------------------|
| 1) carbon dioxide | CO_2 | sulfur dioxide |
| 2) nitrogen trifluoride | NF_3 | oxygen difluoride |
| 3) boron trifluoride | BF_3 | ammonia |
| 4) chlorine | Cl_2 | phosphorus trihalide |
| 5) silicon dioxide | SiO_2 | carbon dioxide |
| 6) methane | CH_4 | CH_2Cl_2 |
| 7) silicon tetrafluoride | SiF_4 | HCl |
| 8) nitrogen trifluoride | NF_3 | phosphorus trifluoride |