11.4 The Nature of Intermolecular Forces

8.6 - Molecular Polarity - Chem 111 Review! - Bond Polarity

Requirement: Oll you need is a polar covalent bond. That is a bond in which the constituent atoms have different electromegativities.



[-0 bond is polar as there is a difference in electronegativity between [and 0. Oxygen is more electronegative Than carbon.

N-N bond is nonpolar.
There is no difference in electronegativity.

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8.6 – Molecular Polarity – Chem 111 Review! – Molecular Polarity

Molecule polar if I Polar bonds > 0 ... lector sum ... the molecule has a Dipole Moment.

Simply fying Molecular Polarity with 3 simple questions _ note that this is an over simplification.

Q1: Does the molecule have a polar land?

No: Nonpolar

YES: Om to question 2.

Q2: Does the contral atom have a lone pair(s)?

No: Om to question 3.

YES: Polar *1: Inve if the contral atom obeys the Octet Rule. Jake care if the contral atom is beyond the octet.

Q3. One the terminal atoms around the contral atom all the same?

No: Polar*1

YES: Nonpolar

How many of the following molecules are polar?

