

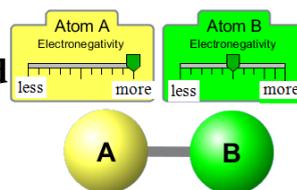
Molecule Polarity

Learning Goals: Students will be able to:

- Define bond polarity and molecular polarity
- Explain the relationships between bond polarity and molecular polarity
- Identify tools/representations to approximate bond and molecular polarity
 - Use these common tools to approximate and compare polarity
- Use standard notation to indicate polarity
- Identify the bonds between atoms as nonpolar covalent, moderately polar covalent, very polar covalent, or ionic.

by Trish Loeblein updated October 2011

1. Which would represent the correct dipole?

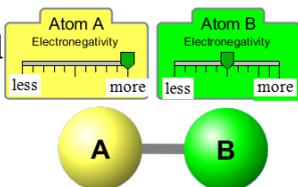


A. \longrightarrow

B. \longleftarrow

C. There is no dipole

2. Which would be the best description for the bond?



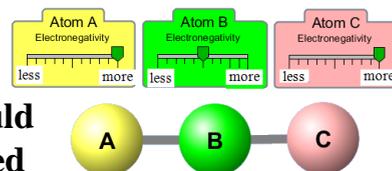
A. nonpolar covalent

B. moderately polar covalent

C. very polar covalent

D. ionic

3. The molecule shown would be described with



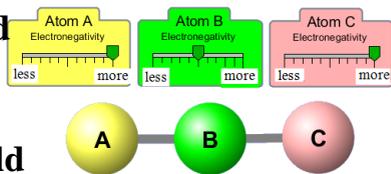
A. polar bonds, nonpolar molecule

B. nonpolar bonds, nonpolar molecule

C. polar bonds, polar molecule

D. nonpolar bonds, polar molecule

4. The bond dipole and molecular dipole would be



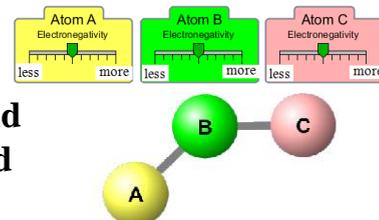
A. \longleftrightarrow \longrightarrow , no molecule dipole

B. \longleftrightarrow \longrightarrow , \longrightarrow

C. \longrightarrow \longleftarrow , no molecule dipole

D. \longrightarrow \longleftarrow , \longrightarrow

5. The molecule shown would be described with



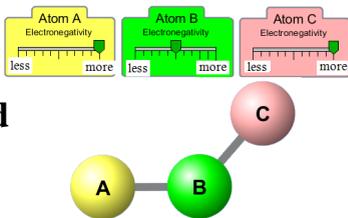
A. polar bonds, nonpolar molecule

B. nonpolar bonds, nonpolar molecule

C. polar bonds, polar molecule

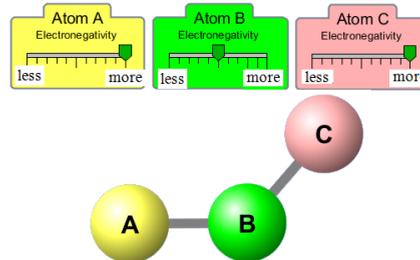
D. nonpolar bonds, polar molecule

6. The molecule shown would be described with



- A. polar bonds, nonpolar molecule
- B. nonpolar bonds, nonpolar molecule
- C. polar bonds, polar molecule
- D. nonpolar bonds, polar molecule

7. Draw the dipole representations



7ans. Draw the dipole representations

