
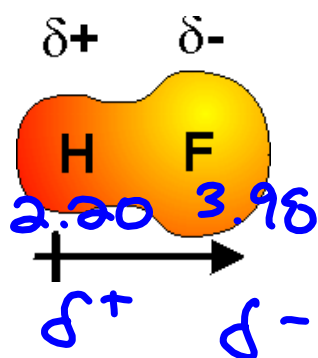


<h1>Ionic</h1> <p>charged part: "salt"</p> <p>name: no prefixes</p>	<h1>Covalent</h1> <p>name: prefixed "sugar"</p>
Structure: metal : nonmetal crystal lattice 	Structure: all nonmetals Lewis Structures $H - \overset{\cdot\cdot}{\underset{\cdot\cdot}{O}} - H$ "molecules"
Boiling/Melting Point: high m.p./b.p.	Boiling/Melting Point: low m.p./b.p.
Solubility: soluble in H_2O	Solubility: depends on polarity
Conductivity: good conductors	Conductivity: nonconductors

Polar Bonds:

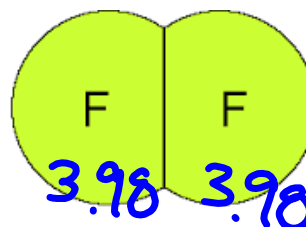
covalent
polar bond: a bond that has a slightly positive side and a slightly negative side, creating a pole (electrons are not shared equally)



Nonpolar Bonds:

nonpolar bond: the electrons are shared equally

electronegativity difference: < 0.4



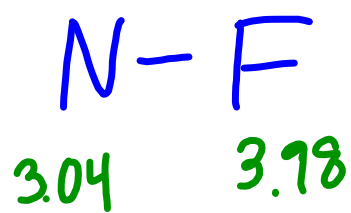
Bond Polarity:

nonpolar covalent bond: <0.4

polar covalent bond: >0.4

ionic bond: >1.7

 is there a metal?



polar cov.