

ELECTRONEGATIVITY & BOND TYPES

Determine whether the following bonds are ionic, nonpolar covalent or polar covalent using the element's Electronegativity Values.

<u>Type of Bond</u>	<u>EN (Difference in EN between two atoms)</u>
Non-polar Covalent	0 – 0.5
Polar Covalent	0.5 – 2.0
Ionic	2.0 – 4.0

ELECTRONEGATIVITY

		H 2.2				He	
Li 0.98	Be 1.57	B 2.04	C 2.55	N 3.04	O 3.44	F 3.98	Ne
Na 0.93	Mg 1.31	Al 1.61	Si 1.90	P 2.19	S 2.58	Cl 3.16	Ar
K 0.82	Ca 1.00	Ga 1.81	Ge 2.01	As 2.18	Se 2.55	Br 2.96	Kr 2.9
Rb 0.82	Sr 0.95	In 1.78	Sn 1.96	Sb 2.05	Te 2.1	I 2.66	Xe 2.6
Cs 0.79	Ba 0.89	Tl 2.04	Pb 2.33	Bi 2.02	Po 2.0	At 2.2	Rn

- Bond between Li and F
- Bond between Na and Br
- Bond between N and N
- Bond between O and O
- Bond between C and O
- Bond between C and H
- Bond between S and H
- Bond between Mg and F