

Revised August 2010



Electronegativities



Electronegativity – the ability of an atom (within a covalent bond) to attract electrons to itself

| Electronegativities on the Pauling scale (Higher values are more likely to attract electrons) | | | | | | | | | | | | | | | | | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|
| 1 H 2.1 | | | | | | | | | | | | | | | | | 2 He |
| 3 Li 1.0 | 4 Be 1.5 | | | | | | | | | | | 5 B 2.0 | 6 C 2.5 | 7 N 3.0 | 8 O 3.5 | 9 F 4.0 | 10 Ne |
| 11 Na 0.9 | 12 Mg 1.2 | | | | | | | | | | | 13 Al 1.5 | 14 Si 1.8 | 15 P 2.1 | 16 S 2.5 | 17 Cl 3.0 | 18 Ar |
| 19 K 0.8 | 20 Ca 1.0 | 21 Sc 1.3 | 22 Ti 1.5 | 23 V 1.6 | 24 Cr 1.6 | 25 Mn 1.5 | 26 Fe 1.8 | 27 Co 1.8 | 28 Ni 1.8 | 29 Cu 1.9 | 30 Zn 1.6 | 31 Ga 1.6 | 32 Ge 1.8 | 33 As 2.0 | 34 Se 2.4 | 35 Br 2.8 | 36 Kr |
| 37 Rb 0.8 | 38 Sr 1.0 | 39 Y 1.2 | 40 Zr 1.4 | 41 Nb 1.6 | 42 Mo 1.8 | 43 Tc 1.9 | 44 Ru 2.2 | 45 Rh 2.2 | 46 Pd 2.2 | 47 Ag 1.9 | 48 Cd 1.7 | 49 In 1.7 | 50 Sn 1.8 | 51 Sb 1.9 | 52 Te 2.1 | 53 I 2.5 | 54 Xe |
| 55 Cs 0.7 | 56 Ba 0.9 | | | | | | | | | | | | | | | | |