

Ionization Energies Determined by Photoelectron Spectroscopy

Element	Ionization Energies in MJ/mol		
	1s	2s	2p
H	1.31		
He	2.37		
Li	6.26	0.52	
Be	11.5	0.90	
B	19.3	1.36	0.80
C	28.6	1.72	1.09
N	39.6	2.45	1.40
O	52.6	3.12	1.31
F	67.2	3.88	1.68
Ne	84.0	4.68	2.08

Average Valence Electron Energies (MJ/mol)

H 1.31							He 2.37
Li 0.52	Be 0.90	B 1.17	C 1.41	N 1.82	O 1.91	F 2.31	Ne 2.73
Na 0.50	Mg 0.74	Al 0.92	Si 1.13	P 1.39	S 1.35	Cl 1.59	Ar 1.85
K 0.42	Ca 0.59	Ga 1.00	Ge 1.07	As 1.26	Se 1.3	Br 1.53	Kr 1.69
Rb 0.40	Sr 0.55	In 0.94	Sn 1.04	Sb 1.13	Te 1.2	I 1.35	Xe 1.47