

Periodic Table of the Elements

First Ionization Energy, in kJ/mol

	1																18	
1	H 1312.0																He 2372.3	
2	Li 520.2	Be 899.5										B 800.6	C 1086.5	N 1402.3	O 1313.9	F 1681.0	Ne 2080.7	
3	Na 495.8	Mg 737.7										Al 577.5	Si 786.5	P 1011.8	S 999.6	Cl 1251.2	Ar 1520.6	
4	K 418.8	Ca 589.8	Sc 633.1	Ti 658.8	V 650.9	Cr 652.9	Mn 717.3	Fe 762.5	Co 760.4	Ni 737.1	Cu 745.5	Zn 906.4	Ga 578.8	Ge 762	As 947.0	Se 941.0	Br 1139.9	Kr 1350.8
5	Rb 403.0	Sr 549.5	Y 600	Zr 640.1	Nb 652.1	Mo 684.3	Tc 702	Ru 710.2	Rh 719.7	Pd 804.4	Ag 713.0	Cd 867.8	In 558.3	Sn 708.6	Sb 834	Te 869.3	I 1008.4	Xe 1170.4
6	Cs 375.7	Ba 502.9	Lu 523.5	Hf 658.5	Ta 761	W 770	Re 760	Os 840	Ir 880	Pt 870	Au 890.1	Hg 1007.1	Tl 589.4	Pb 715.6	Bi 703	Po 812.1	At 899.0	Rn 1037
7	Fr 380	Ra 509.3	Lr 470	Rf 580	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og

Lanthanides	La 538.1	Ce 534.4	Pr 527	Nd 533.1	Pm 540	Sm 544.5	Eu 547.1	Gd 593.4	Tb 565.8	Dy 573.0	Ho 581.0	Er 589.3	Tm 596.7	Yb 603.4
Actinides	Ac 499	Th 587	Pa 568	U 597.6	Np 604.5	Pu 584.7	Am 578	Cm 581	Bk 601	Cf 608	Es 619	Fm 627	Md 635	No 642

- Main groups 1–2
(*s* block)
- Main groups 13–18
(*p* block)
- Transition metals
(*d* block)
- Lanthanides
(*f* block)

