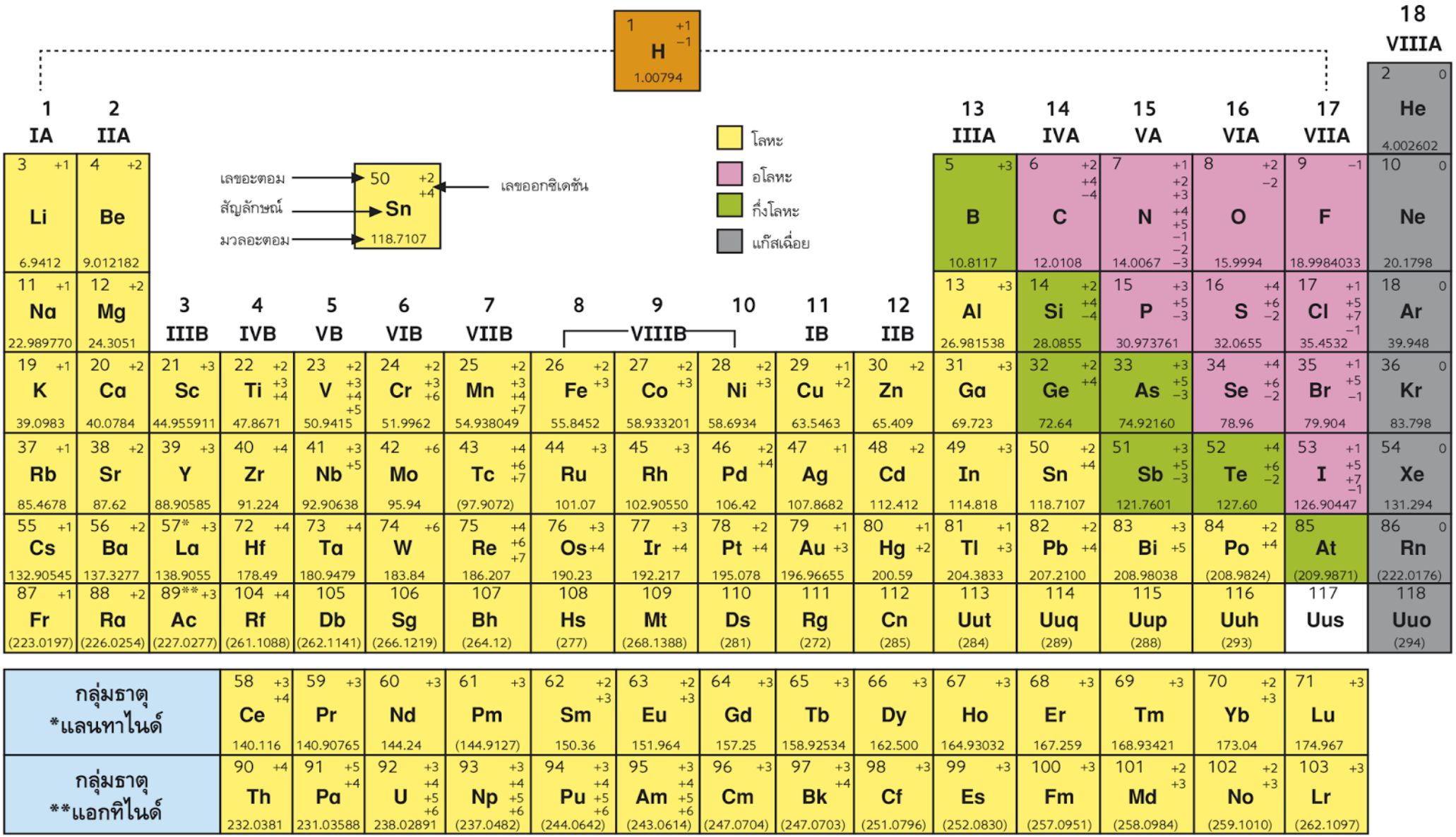

1 +1 −1 H 1.00794
เลขอะตอม
สัญลักษณ์
มวลอะตอม
50 +2 +4 Sn 118.7107
เลขออกซิเดชัน
โลหะ
อโลหะ
กึ่งโลหะ
แก๊สเฉื่อย
1 IA
2 IIA
3 IIIB
4 IVB
5 VB
6 VIB
7 VIIB
8
9 VIIIB
10
11 IB
12 IIB
13 IIIA
14 IVA
15 VA
16 VIA
17 VIIA
18 VIIIA
3 +1 Li 6.9412
4 +2 Be 9.012182
5 +3 B 10.8117
6 +2 +4 −4 C 12.0108
7 +1 +2 +3 +4 +5 −1 −2 −3 N 14.0067
8 +2 −2 O 15.9994
9 −1 F 18.9984033
2 0 He 4.002602
10 0 Ne 20.1798
11 +1 Na 22.989770
12 +2 Mg 24.3051
13 +3 Al 26.981538
14 +2 +4 −4 Si 28.0855
15 +3 +5 −3 P 30.973761
16 +4 +6 −2 S 32.0655
17 +1 +5 +7 −1 Cl 35.4532
18 0 Ar 39.948
19 +1 K 39.0983
20 +2 Ca 40.0784
21 +3 Sc 44.955911
22 +2 +3 +4 Ti 47.8671
23 +2 +3 +4 +5 V 50.9415
24 +2 +3 +6 Cr 51.9962
25 +2 +3 +4 +7 Mn 54.938049
26 +2 +3 Fe 55.8452
27 +2 +3 Co 58.933201
28 +2 +3 Ni 58.6934
29 +1 +2 Cu 63.5463
30 +2 Zn 65.409
31 +3 Ga 69.723
32 +2 +4 Ge 72.64
33 +3 +5 −3 As 74.92160
34 +4 +6 −2 Se 78.96
35 +1 +5 −1 Br 79.904
36 0 Kr 83.798
37 +1 Rb 85.4678
38 +2 Sr 87.62
39 +3 Y 88.90585
40 +4 Zr 91.224
41 +3 +5 Nb 92.90638
42 +6 Mo 95.94
43 +4 +6 +7 Tc (97.9072)
44 +3 Ru 101.07
45 +3 Rh 102.90550
46 +2 +4 Pd 106.42
47 +1 Ag 107.8682
48 +2 Cd 112.412
49 +3 In 114.818
50 +2 +4 Sn 118.7107
51 +3 +5 −3 Sb 121.7601
52 +4 +6 −2 Te 127.60
53 +1 +5 +7 −1 I 126.90447
54 0 Xe 131.294
55 +1 Cs 132.90545
56 +2 Ba 137.3277
57* +3 La 138.9055
72 +4 Hf 178.49
73 +4 Ta 180.9479
74 +6 W 183.84
75 +4 +6 +7 Re 186.207
76 +3 +4 Os 190.23
77 +3 +4 Ir 192.217
78 +2 +4 Pt 195.078
79 +1 +3 Au 196.96655
80 +1 +2 Hg 200.59
81 +1 +3 Tl 204.3833
82 +2 +4 Pb 207.2100
83 +3 +5 Bi 208.98038
84 +2 +4 Po (208.9824)
85 At (209.9871)
86 0 Rn (222.0176)
87 +1 Fr (223.0197)
88 +2 Ra (226.0254)
89** +3 Ac (227.0277)
104 +4 Rf (261.1088)
105 Db (262.1141)
106 Sg (266.1219)
107 Bh (264.12)
108 Hs (277)
109 Mt (268.1388)
110 Ds (281)
111 Rg (272)
112 Cn (285)
113 Uut (284)
114 Uuq (289)
115 Uup (288)
116 Uuh (293)
117 Uus
118 Uuo (294)
กลุ่มธาตุ *แลนทาไนด์
58 +3 +4 Ce 140.116
59 +3 Pr 140.90765
60 +3 Nd 144.24
61 +3 Pm (144.9127)
62 +2 +3 Sm 150.36
63 +2 +3 Eu 151.964
64 +3 Gd 157.25
65 +3 Tb 158.92534
66 +3 Dy 162.500
67 +3 Ho 164.93032
68 +3 Er 167.259
69 +3 Tm 168.93421
70 +2 +3 Yb 173.04
71 +3 Lu 174.967
กลุ่มธาตุ **แอกทิไนด์
90 +4 Th 232.0381
91 +5 +4 Pa 231.03588
92 +3 +4 +5 +6 U 238.02891
93 +3 +4 +5 +6 Np (237.0482)
94 +3 +4 +5 +6 Pu (244.0642)
95 +3 +4 +5 +6 Am (243.0614)
96 +3 Cm (247.0704)
97 +3 +4 Bk (247.0703)
98 +3 Cf (251.0796)
99 +3 Es (252.0830)
100 +3 Fm (257.0951)
101 +2 +3 Md (258.0984)
102 +2 +3 No (259.1010)
103 +3 Lr (262.1097)

IUPAC Periodic Table of the Elements

1																	18
1 H hydrogen 1.008 [1.0078, 1.0082]	2		Key: atomic number **Symbol** **name** conventional atomic weight standard atomic weight									13	14	15	16	17	2 He helium 4.0026
3 Li lithium 6.94 [6.938, 6.997]	4 Be beryllium 9.0122											5 B boron 10.81 [10.806, 10.821]	6 C carbon 12.011 [12.009, 12.012]	7 N nitrogen 14.007 [14.006, 14.008]	8 O oxygen 15.999 [15.999, 16.000]	9 F fluorine 18.998	10 Ne neon 20.180
11 Na sodium 22.990	12 Mg magnesium 24.305 [24.304, 24.307]	3	4	5	6	7	8	9	10	11	12	13 Al aluminium 26.982	14 Si silicon 28.085 [28.084, 28.086]	15 P phosphorus 30.974	16 S sulfur 32.06 [32.059, 32.076]	17 Cl chlorine 35.45 [35.446, 35.457]	18 Ar argon 39.948
19 K potassium 39.098	20 Ca calcium 40.078(4)	21 Sc scandium 44.956	22 Ti titanium 47.867	23 V vanadium 50.942	24 Cr chromium 51.996	25 Mn manganese 54.938	26 Fe iron 55.845(2)	27 Co cobalt 58.933	28 Ni nickel 58.693	29 Cu copper 63.546(3)	30 Zn zinc 65.38(2)	31 Ga gallium 69.723	32 Ge germanium 72.630(8)	33 As arsenic 74.922	34 Se selenium 78.971(8)	35 Br bromine 79.904 [79.901, 79.907]	36 Kr krypton 83.798(2)
37 Rb rubidium 85.468	38 Sr strontium 87.62	39 Y yttrium 88.906	40 Zr zirconium 91.224(2)	41 Nb niobium 92.906	42 Mo molybdenum 95.95	43 Tc technetium	44 Ru ruthenium 101.07(2)	45 Rh rhodium 102.91	46 Pd palladium 106.42	47 Ag silver 107.87	48 Cd cadmium 112.41	49 In indium 114.82	50 Sn tin 118.71	51 Sb antimony 121.76	52 Te tellurium 127.60(3)	53 I iodine 126.90	54 Xe xenon 131.29
55 Cs caesium 132.91	56 Ba barium 137.33	57-71 lanthanoids	72 Hf hafnium 178.49(2)	73 Ta tantalum 180.95	74 W tungsten 183.84	75 Re rhenium 186.21	76 Os osmium 190.23(3)	77 Ir iridium 192.22	78 Pt platinum 195.08	79 Au gold 196.97	80 Hg mercury 200.59	81 Tl thallium 204.38 [204.38, 204.39]	82 Pb lead 207.2	83 Bi bismuth 208.98	84 Po polonium	85 At astatine	86 Rn radon
87 Fr francium	88 Ra radium	89-103 actinoids	104 Rf rutherfordium	105 Db dubnium	106 Sg seaborgium	107 Bh bohrium	108 Hs hassium	109 Mt meitnerium	110 Ds darmstadtium	111 Rg roentgenium	112 Cn copernicium	113 Nh nihonium	114 Fl flerovium	115 Mc moscovium	116 Lv livermorium	117 Ts tennessine	118 Og oganesson

57 La lanthanum 138.91	58 Ce cerium 140.12	59 Pr praseodymium 140.91	60 Nd neodymium 144.24	61 Pm promethium	62 Sm samarium 150.36(2)	63 Eu europium 151.96	64 Gd gadolinium 157.25(3)	65 Tb terbium 158.93	66 Dy dysprosium 162.50	67 Ho holmium 164.93	68 Er erbium 167.26	69 Tm thulium 168.93	70 Yb ytterbium 173.05	71 Lu lutetium 174.97
89 Ac actinium	90 Th thorium 232.04	91 Pa protactinium 231.04	92 U uranium 238.03	93 Np neptunium	94 Pu plutonium	95 Am americium	96 Cm curium	97 Bk berkelium	98 Cf californium	99 Es einsteinium	100 Fm fermium	101 Md mendelevium	102 No nobelium	103 Lr lawrencium

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