

Periodic Table of the Elements

元素周期表

IA										VIII																																	
1 H Hydrogen 1s1 1.008										2 He Helium 1s2 4.003																																	
3 Li Lithium [He] 2s1 6.940		4 Be Beryllium [He] 2s2 9.012												5 B Boron [He] 2s2 2p1 10.81		6 C Carbon [He] 2s2 2p2 12.01		7 N Nitrogen [He] 2s2 2p3 14.01		8 O Oxygen [He] 2s2 2p4 16.00		9 F Fluorine [He] 2s2 2p5 19.00		10 Ne Neon [He] 2s2 2p6 20.18																			
11 Na Sodium [Ne] 3s1 22.99		12 Mg Magnesium [Ne] 3s2 24.31												13 Al Aluminium [Ne] 3s2 3p1 26.98		14 Si Silicon [Ne] 3s2 3p2 28.09		15 P Phosphorus [Ne] 3s2 3p3 30.97		16 S Sulphur [Ne] 3s2 3p4 32.06		17 Cl Chlorine [Ne] 3s2 3p5 35.45		18 Ar Argon [Ne] 3s2 3p6 39.95																			
19 K Potassium [Ar] 4s1 39.10		20 Ca Calcium [Ar] 4s2 40.08		IIIB 21 Sc Scandium [Ar] 3d1 4s2 44.96		IVB 22 Ti Titanium [Ar] 3d2 4s2 47.87		VB 23 V Vanadium [Ar] 3d3 4s2 50.94		VIB 24 Cr Chromium [Ar] 3d5 4s1 52.00		VIIB 25 Mn Manganese [Ar] 3d5 4s2 54.94		VIII 26 Fe Iron [Ar] 3d6 4s2 55.85		VIII 27 Co Cobalt [Ar] 3d7 4s2 58.93		VIII 28 Ni Nickel [Ar] 3d8 4s2 58.69		IB 29 Cu Copper [Ar] 3d10 4s1 63.55		IIB 30 Zn Zinc [Ar] 3d10 4s2 65.38		31 Ga Gallium [Ar] 3d10 4s2 4p1 69.72		32 Ge Germanium [Ar] 3d10 4s2 4p2 72.63		33 As Arsenic [Ar] 3d10 4s2 4p3 74.92		34 Se Selenium [Ar] 3d10 4s2 4p4 78.97		35 Br Bromine [Ar] 3d10 4s2 4p5 79.90		36 Kr Krypton [Ar] 3d10 4s2 4p6 83.80									
37 Rb Rubidium [Kr] 5s1 85.47		38 Sr Strontium [Kr] 5s2 87.62		39 Y Yttrium [Kr] 4d1 5s2 88.91		40 Zr Zirconium [Kr] 4d2 5s2 91.22		41 Nb Niobium [Kr] 4d4 5s1 92.91		42 Mo Molybdenum [Kr] 4d5 5s1 95.95		43 Tc Technetium [Kr] 4d5 5s2 (98)		44 Ru Ruthenium [Kr] 4d7 5s1 101.1		45 Rh Rhodium [Kr] 4d8 5s1 102.9		46 Pd Palladium [Kr] 4d10 106.4		47 Ag Silver [Kr] 4d10 5s1 107.9		48 Cd Cadmium [Kr] 4d10 5s2 112.4		49 In Indium [Kr] 4d10 5s2 5p1 114.8		50 Sn Tin [Kr] 4d10 5s2 5p2 118.7		51 Sb Antimony [Kr] 4d10 5s2 5p3 121.8		52 Te Tellurium [Kr] 4d10 5s2 5p4 127.6		53 I Iodine [Kr] 4d10 5s2 5p5 126.9		54 Xe Xenon [Kr] 4d10 5s2 5p6 131.3									
55 Cs Caesium [Xe] 6s1 132.9		56 Ba Barium [Xe] 6s2 137.3												72 Hf Hafnium [Xe] 4f14 5d2 6s2 178.5		73 Ta Tantalum [Xe] 4f14 5d3 6s2 180.9		74 W Tungsten [Xe] 4f14 5d4 6s2 183.8		75 Re Rhenium [Xe] 4f14 5d5 6s2 186.2		76 Os Osmium [Xe] 4f14 5d6 6s2 190.2		77 Ir Iridium [Xe] 4f14 5d7 6s2 190.2		78 Pt Platinum [Xe] 4f14 5d9 6s1 195.1		79 Au Gold [Xe] 4f14 5d10 6s1 197.0		80 Hg Mercury [Xe] 4f14 5d10 6s2 200.6		81 Tl Thallium [Hg] 6p1 204.4		82 Pb Lead [Hg] 6p2 207.2		83 Bi Bismuth [Hg] 6p3 209.0		84 Po Polonium [Hg] 6p4 (209)		85 At Astatine [Hg] 6p5 (210)		86 Rn Radon [Hg] 6p6 (222)	
87 Fr Francium [Rn] 7s1 (223)		88 Ra Radium [Rn] 7s2 (226)		104 Rf Rutherfordium [Rn] 5f14 6d2 7s2 (267)		105 Db Dubnium [Rn] 5f14 6d3 7s2 (268)		106 Sg Seaborgium [Rn] 5f14 6d4 7s2 (271)		107 Bh Bohrium [Rn] 5f14 6d5 7s2 (270)		108 Hs Hassium [Rn] 5f14 6d6 7s2 (269)		109 Mt Meitnerium [Rn] 5f14 6d7 7s2 (278)		110 Ds Darmstadtium [Rn] 5f14 6d8 7s2 (281)		111 Rg Roentgenium [Xe] 4f7 5d10 6s2 (282)		112 Cn Copernicium [Xe] 4f9 5d10 6s2 (285)		113 Nh Nihonium [Xe] 4f10 5d10 6s2 (286)		114 Fl Flerovium [Xe] 4f11 5d10 6s2 (289)		115 Mc Moscovium [Xe] 4f12 5d10 6s2 (289)		116 Lv Livermorium [Xe] 4f13 5d10 6s2 (293)		117 Ts Tennessine [Xe] 4f14 5d10 6s2 (294)		118 Og Oganesson [Xe] 4f14 5d10 6s2 (294)											
		57 La Lanthanum [Xe] 5d1 6s2 138.9		58 Ce Cerium [Xe] 4f1 5d1 6s2 140.1		59 Pr Praseodymium [Xe] 4f3 6s2 140.9		60 Nd Neodymium [Xe] 4f4 6s2 144.2		61 Pm Promethium [Xe] 4f5 6s2 (145)		62 Sm Samarium [Xe] 4f6 6s2 150.4		63 Eu Europium [Xe] 4f7 6s2 152.0		64 Gd Gadolinium [Xe] 4f7 5d1 6s2 157.3		65 Tb Terbium [Xe] 4f9 6s2 158.9		66 Dy Dysprosium [Xe] 4f10 6s2 162.5		67 Ho Holmium [Xe] 4f11 6s2 164.9		68 Er Erbium [Xe] 4f12 6s2 167.3		69 Tm Thulium [Xe] 4f13 6s2 168.9		70 Yb Ytterbium [Xe] 4f14 6s2 173.0		71 Lu Lutetium [Xe] 4f14 5d1 6s2 175.0													
		89 Ac Actinium [Rn] 6d1 7s2 (227)		90 Th Thorium [Rn] 6d2 7s2 232.0		91 Pa Protactinium [Rn] 5f2 6d1 7s2 231.0		92 U Uranium [Rn] 5f3 6d1 7s2 238.0		93 Np Neptunium [Rn] 5f4 6d1 7s2 (237)		94 Pu Plutonium [Rn] 5f6 7s2 (244)		95 Am Americium [Rn] 5f7 7s2 (243)		96 Cm Curium [Rn] 5f7 6d1 7s2 (247)		97 Bk Berkelium [Rn] 5f9 7s2 (247)		98 Cf Californium [Rn] 5f10 7s2 (251)		99 Es Einsteinium [Rn] 5f11 7s2 (252)		100 Fm Fermium [Rn] 5f12 7s2 (257)		101 Md Mendelevium [Rn] 5f13 7s2 (258)		102 No Nobelium [Rn] 5f14 7s2 (259)		103 Lr Lawrencium [Rn] 5f14 7s2 7p1 (266)													

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IIA																				VIIIA																	
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11 Na 钠 nà [Ne] 3s1 22.99	12 Mg 镁 měi [Ne] 3s2 24.31																			13 Al 铝 lǚ [Ne] 3s2 3p1 26.98	14 Si 硅 guī [Ne] 3s2 3p2 28.09	15 P 磷 lín [Ne] 3s2 3p3 30.97	16 S 硫 liú [Ne] 3s2 3p4 32.06	17 Cl 氯 lǜ [Ne] 3s2 3p5 35.45	18 Ar 氩 yà [Ne] 3s2 3p6 39.95												
IIIB			IVB			VB			VIB			VIIIB			VIII			VIII			VIII			IB		IIB											
19 K 钾 jiǎ [Ar] 4s1 39.10	20 Ca 钙 gài [Ar] 4s2 40.08	21 Sc 钪 kàng [Ar] 3d1 4s2 44.96	22 Ti 钛 tài [Ar] 3d2 4s2 47.87	23 V 钒 fán [Ar] 3d3 4s2 50.94	24 Cr 铬 gè [Ar] 3d5 4s1 52.00	25 Mn 锰 měng [Ar] 3d5 4s2 54.94	26 Fe 铁 tiě [Ar] 3d6 4s2 55.85	27 Co 钴 gǔ [Ar] 3d7 4s2 58.93	28 Ni 镍 niè [Ar] 3d8 4s2 58.69	29 Cu 铜 tóng [Ar] 3d10 4s1 63.55	30 Zn 锌 xīn [Ar] 3d10 4s2 65.38	31 Ga 镓 jiā [Ar] 3d10 4s2 4p1 69.72	32 Ge 锗 zhě [Ar] 3d10 4s2 4p2 72.63	33 As 砷 shēn [Ar] 3d10 4s2 4p3 74.92	34 Se 硒 xī [Ar] 3d10 4s2 4p4 78.97	35 Br 溴 xiù [Ar] 3d10 4s2 4p5 79.90	36 Kr 氪 kè [Ar] 3d10 4s2 4p6 83.80																				
37 Rb 铷 rú [Kr] 5s1 85.47	38 Sr 锶 sī [Kr] 5s2 87.62	39 Y 钇 yǐ [Kr] 4d1 5s2 88.91	40 Zr 锆 gào [Kr] 4d2 5s2 91.22	41 Nb 铌 ní [Kr] 4d4 5s1 92.91	42 Mo 钼 mù [Kr] 4d5 5s1 95.95	43 Tc 锝 dé [Kr] 4d5 5s2 (98)	44 Ru 钌 liǎo [Kr] 4d7 5s1 101.1	45 Rh 铑 lǎo [Kr] 4d8 5s1 102.9	46 Pd 钯 bǎ [Kr] 4d10 106.4	47 Ag 银 yín [Kr] 4d10 5s1 107.9	48 Cd 镉 gé [Kr] 4d10 5s2 112.4	49 In 铟 yīn [Kr] 4d10 5s2 5p1 114.8	50 Sn 锡 xī [Kr] 4d10 5s2 5p2 118.7	51 Sb 锑 tī [Kr] 4d10 5s2 5p3 121.8	52 Te 碲 dì [Kr] 4d10 5s2 5p4 127.6	53 I 碘 diǎn [Kr] 4d10 5s2 5p5 126.9	54 Xe 氙 xiān [Kr] 4d10 5s2 5p6 131.3																				
55 Cs 铯 sè [Xe] 6s1 132.9	56 Ba 钡 bèi [Xe] 6s2 137.3																			72 Hf 铪 hā [Xe] 4f14 5d2 6s2 178.5	73 Ta 钽 tǎn [Xe] 4f14 5d3 6s2 180.9	74 W 钨 wū [Xe] 4f14 5d4 6s2 183.8	75 Re 铼 lái [Xe] 4f14 5d5 6s2 186.2	76 Os 锇 é [Xe] 4f14 5d6 6s2 190.2	77 Ir 铱 yī [Xe] 4f14 5d7 6s2 190.2	78 Pt 铂 bó [Xe] 4f14 5d9 6s1 195.1	79 Au 金 jīn [Xe] 4f14 5d10 6s1 197.0	80 Hg 汞 gǒng [Xe] 4f14 5d10 6s2 200.6	81 Tl 铊 tā [Hg] 6p1 204.4	82 Pb 铅 qiān [Hg] 6p2 207.2	83 Bi 铋 bǐ [Hg] 6p3 209.0	84 Po 钋 pō [Hg] 6p4 (209)	85 At 砹 ài [Hg] 6p5 (210)	86 Rn 氡 dōng [Hg] 6p6 (222)			
87 Fr 钫 fāng [Rn] 7s1 (223)	88 Ra 镭 léi [Rn] 7s2 (226)																			104 Rf 𨭇 lú [Rn] 5f14 6d2 7s2 (267)	105 Db 𨭈 dù [Rn] 5f14 6d3 7s2 (268)	106 Sg 𨭉 xǐ [Rn] 5f14 6d4 7s2 (271)	107 Bh 𨭊 bō [Rn] 5f14 6d5 7s2 (270)	108 Hs 𨭋 hēi [Rn] 5f14 6d6 7s2 (269)	109 Mt 𨭌 mài [Rn] 5f14 6d7 7s2 (278)	110 Ds 𨭍 dá [Rn] 5f14 6d8 7s2 (281)	111 Rg 𨭎 lún [Rn] 5f14 6d9 7s2 (282)	112 Cn 𨭏 gē [Rn] 5f14 6d10 7s2 (285)	113 Nh 𨭐 nǐ [Rn] 5f14 6d10 7s2 7p1 (286)	114 Fl 𨭑 fū [Rn] 5f14 6d10 7s2 7p2 (289)	115 Mc 𨭒 mò [Rn] 5f14 6d10 7s2 7p3 (289)	116 Lv 𨭓 lì [Rn] 5f14 6d10 7s2 7p4 (293)	117 Ts 𨭔 tián [Rn] 5f14 6d10 7s2 7p5 (294)	118 Og 𨭕 ào [Rn] 5f14 6d10 7s2 7p6 (294)			
		57 La 镧 lán [Xe] 5d1 6s2 138.9	58 Ce 铈 shì [Xe] 4f1 5d1 6s2 140.1	59 Pr 镨 pǔ [Xe] 4f3 6s2 140.9	60 Nd 钕 nǐ [Xe] 4f4 6s2 144.2	61 Pm 钷 pǐ [Xe] 4f5 6s2 (145)	62 Sm 钐 shān [Xe] 4f6 6s2 150.4	63 Eu 铕 yǒu [Xe] 4f7 6s2 152.0	64 Gd 钆 gá [Xe] 4f7 5d1 6s2 157.3	65 Tb 铽 tè [Xe] 4f9 6s2 158.9	66 Dy 镝 dī [Xe] 4f10 6s2 162.5	67 Ho 钬 hùo [Xe] 4f11 6s2 164.9	68 Er 铒 ěr [Xe] 4f12 6s2 167.3	69 Tm 铥 diū [Xe] 4f13 6s2 168.9	70 Yb 镱 yì [Xe] 4f14 6s2 173.0	71 Lu 镱 lú [Xe] 4f14 5d1 6s2 175.0																					
89 Ac 锕 ā [Rn] 6d1 7s2 (227)	90 Th 钍 tǔ [Rn] 6d2 7s2 232.0	91 Pa 镤 pú [Rn] 5f2 6d1 7s2 231.0	92 U 铀 yōu [Rn] 5f3 6d1 7s2 238.0	93 Np 镎 ná [Rn] 5f4 6d1 7s2 (237)	94 Pu 钷 bù [Rn] 5f6 7s2 (244)	95 Am 镅 méi [Rn] 5f7 7s2 (243)	96 Cm 锔 jū [Rn] 5f7 6d1 7s2 (247)	97 Bk 锫 péi [Rn] 5f9 7s2 (247)	98 Cf 锿 kāi [Rn] 5f10 7s2 (251)	99 Es 镱 āi [Rn] 5f11 7s2 (252)	100 Fm 镆 fèi [Rn] 5f12 7s2 (257)	101 Md 钎 mén [Rn] 5f13 7s2 (258)	102 No 锘 nuò [Rn] 5f14 7s2 (259)	103 Lr 铹 láo [Rn] 5f14 7s2 7p1 (266)																							