

元素周期表
Periodic Table of the Elements

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|-------|---|--|---|--|--|--|---|--|--|---|---|--|---|--|---|---|---|---|---|--|---|--|--|--|--|--|
| 1 I A | | | | | | | | | | | | | | | | 18 0 | | | | | | | | | | |
| 1 | 1 1.008 H 氢 Hydrogen 1s ¹ | 2 II A | | | | | | | | | | | | | | 13 III A 14 IV A 15 V A 16 VIA 17 VII A | | | | | | | | | | 2 4.003 He 氦 Helium 1s ² |
| | 3 6.94 Li 锂 Lithium [He]2s ¹ | 4 9.012 Be 铍 Beryllium [He]2s ² | | | | | | | | | | | | | | | 5 10.81 B 硼 Boron [He]2s ² 2p ¹ | 6 12.01 C 碳 Carbon [He]2s ² 2p ² | 7 14.01 N 氮 Nitrogen [He]2s ² 2p ³ | 8 16.00 O 氧 Oxygen [He]2s ² 2p ⁴ | 9 19.00 F 氟 Fluorine [He]2s ² 2p ⁵ | 10 20.18 Ne 氖 Neon [He]2s ² 2p ⁶ | | | | |
| | 11 22.99 Na 钠 Sodium [Ne]3s ¹ | 12 24.31 Mg 镁 Magnesium [Ne]3s ² | 3 IIIB 4 IVB 5 VB 6 VIB 7 VIIB 8 VIII 9 VIII 10 VIII 11 IB 12 IIB | | | | | | | | | | | | | | 13 26.98 Al 铝 Aluminium [Ne]3s ² 3p ¹ | 14 28.09 Si 硅 Silicon [Ne]3s ² 3p ² | 15 30.97 P 磷 Phosphorus [Ne]3s ² 3p ³ | 16 32.06 S 硫 Sulfur [Ne]3s ² 3p ⁴ | 17 35.45 Cl 氯 Chlorine [Ne]3s ² 3p ⁵ | 18 39.95 Ar 氩 Argon [Ne]3s ² 3p ⁶ | | | | |
| 4 | 19 39.10 K 钾 Potassium [Ar]4s ¹ | 20 40.08 Ca 钙 Calcium [Ar]4s ² | 21 44.96 Sc 钪 Scandium [Ar]3d ¹ 4s ² | 22 47.87 Ti 钛 Titanium [Ar]3d ² 4s ² | 23 50.94 V 钒 Vanadium [Ar]3d ³ 4s ² | 24 52.00 Cr 铬 Chromium [Ar]3d ⁵ 4s ¹ | 25 54.94 Mn 锰 Manganese [Ar]3d ⁵ 4s ² | 26 55.85 Fe 铁 Iron [Ar]3d ⁶ 4s ² | 27 58.93 Co 钴 Cobalt [Ar]3d ⁷ 4s ² | 28 58.69 Ni 镍 Nickel [Ar]3d ⁸ 4s ² | 29 63.55 Cu 铜 Copper [Ar]3d ¹⁰ 4s ¹ | 30 65.38 Zn 锌 Zinc [Ar]3d ¹⁰ 4s ² | 31 69.72 Ga 镓 Gallium [Ar]3d ¹⁰ 4s ² 4p ¹ | 32 72.63 Ge 锗 Germanium [Ar]3d ¹⁰ 4s ² 4p ² | 33 74.92 As 砷 Arsenic [Ar]3d ¹⁰ 4s ² 4p ³ | 34 78.97 Se 硒 Selenium [Ar]3d ¹⁰ 4s ² 4p ⁴ | 35 79.90 Br 溴 Bromine [Ar]3d ¹⁰ 4s ² 4p ⁵ | 36 83.80 Kr 氪 Krypton [Ar]3d ¹⁰ 4s ² 4p ⁶ | | | | | | | | |
| | 37 85.47 Rb 铷 Rubidium [Kr]5s ¹ | 38 87.62 Sr 锶 Strontium [Kr]5s ² | 39 88.91 Y 钇 Yttrium [Kr]4d ¹ 5s ² | 40 91.22 Zr 锆 Zirconium [Kr]4d ² 5s ² | 41 92.91 Nb 铌 Niobium [Kr]4d ⁴ 5s ¹ | 42 95.95 Mo 钼 Molybdenum [Kr]4d ⁵ 5s ¹ | 43 [97] Tc 锝 Technetium [Kr]4d ⁵ 5s ² | 44 101.1 Ru 钌 Ruthenium [Kr]4d ⁷ 5s ¹ | 45 102.9 Rh 铑 Rhodium [Kr]4d ⁸ 5s ¹ | 46 106.4 Pd 钯 Palladium [Kr]4d ¹⁰ | 47 107.9 Ag 银 Silver [Kr]4d ¹⁰ 5s ¹ | 48 112.4 Cd 镉 Cadmium [Kr]4d ¹⁰ 5s ² | 49 114.8 In 铟 Indium [Kr]4d ¹⁰ 5s ² 5p ¹ | 50 118.7 Sn 锡 Tin [Kr]4d ¹⁰ 5s ² 5p ² | 51 121.8 Sb 锑 Antimony [Kr]4d ¹⁰ 5s ² 5p ³ | 52 127.6 Te 碲 Tellurium [Kr]4d ¹⁰ 5s ² 5p ⁴ | 53 126.9 I 碘 Iodine [Kr]4d ¹⁰ 5s ² 5p ⁵ | 54 131.3 Xe 氙 Xenon [Kr]4d ¹⁰ 5s ² 5p ⁶ | | | | | | | | |
| | 55 132.9 Cs 铯 Caesium [Xe]6s ¹ | 56 137.3 Ba 钡 Barium [Xe]6s ² | 57-71 La-Lu 镧系 Lanthanoids | | 72 178.5 Hf 铪 Hafnium [Xe]4f ¹⁴ 5d ² 6s ² | 73 180.9 Ta 钽 Tantalum [Xe]4f ¹⁴ 5d ³ 6s ² | 74 183.8 W 钨 Tungsten [Xe]4f ¹⁴ 5d ⁴ 6s ² | 75 186.2 Re 铼 Rhenium [Xe]4f ¹⁴ 5d ⁵ 6s ² | 76 190.2 Os 锇 Osmium [Xe]4f ¹⁴ 5d ⁶ 6s ² | 77 192.2 Ir 铱 Iridium [Xe]4f ¹⁴ 5d ⁷ 6s ² | 78 195.1 Pt 铂 Platinum [Xe]4f ¹⁴ 5d ⁹ 6s ¹ | 79 197.0 Au 金 Gold [Xe]4f ¹⁴ 5d ¹⁰ 6s ¹ | 80 200.6 Hg 汞 Mercury [Xe]4f ¹⁴ 5d ¹⁰ 6s ² | 81 204.4 Tl 铊 Thallium [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ¹ | 82 207.2 Pb 铅 Lead [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ² | 83 209.0 Bi 铋 Bismuth [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ³ | 84 [209] Po 钋 Polonium [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴ | 85 [210] At 砹 Astatine [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵ | 86 [222] Rn 氡 Radon [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶ | | | | | | | |
| 6 | 87 [223] Fr 钫 Francium [Rn]7s ¹ | 88 [226] Ra 镭 Radium [Rn]7s ² | 89-103 Ac-Lr 锕系 Actinoids | | 104 [267] Rf 𬬪 Rutherfordium [Rn]5f ¹⁴ 6d ² 7s ² | 105 [268] Db 𬬭 Dubnium [Rn]5f ¹⁴ 6d ³ 7s ² | 106 [269] Sg 𬬮 Seaborgium [Rn]5f ¹⁴ 6d ⁴ 7s ² | 107 [270] Bh 𬬯 Bohrium [Rn]5f ¹⁴ 6d ⁵ 7s ² | 108 [269] Hs 𬬰 Hassium [Rn]5f ¹⁴ 6d ⁶ 7s ² | 109 [277] Mt 𬬱 Meitnerium [Rn]5f ¹⁴ 6d ⁷ 7s ² | 110 [281] Ds 𬬲 Darmstadtium [Rn]5f ¹⁴ 6d ⁸ 7s ² | 111 [282] Rg 𬬳 Roentgenium [Rn]5f ¹⁴ 6d ⁹ 7s ² | 112 [285] Cn 𬬴 Copernicium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² | 113 [286] Nh 𬬵 Nihonium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ¹ | 114 [289] Fl 𬬶 Flerovium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ² | 115 [290] Mc 𬬷 Moscovium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ³ | 116 [293] Lv 𬬸 Livermorium [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴ | 117 [294] Ts 𬬹 Tennessee [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵ | 118 [294] Og 𬬺 Oganesson [Rn]5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶ | | | | | | | |

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| 57 138.9 La 镧 Lanthanum [Xe]5d ¹ 6s ² | 58 140.1 Ce 铈 Cerium [Xe]4f ¹ 5d ¹ 6s ² | 59 140.9 Pr 镨 Praseodymium [Xe]4f ² 6s ² | 60 144.2 Nd 钕 Neodymium [Xe]4f ⁴ 6s ² | 61 [145] Pm 钷 Promethium [Xe]4f ⁵ 6s ² | 62 150.4 Sm 钐 Samarium [Xe]4f ⁶ 6s ² | 63 152.0 Eu 铕 Europium [Xe]4f ⁷ 6s ² | 64 157.3 Gd 钆 Gadolinium [Xe]4f ⁷ 5d ¹ 6s ² | 65 158.9 Tb 铽 Terbium [Xe]4f ⁹ 6s ² | 66 162.5 Dy 镝 Dysprosium [Xe]4f ¹⁰ 6s ² | 67 164.9 Ho 钬 Holmium [Xe]4f ¹¹ 6s ² | 68 167.3 Er 铒 Erbium [Xe]4f ¹² 6s ² | 69 168.9 Tm 铥 Thulium [Xe]4f ¹³ 6s ² | 70 173.1 Yb 镱 Ytterbium [Xe]4f ¹⁴ 6s ² | 71 175.0 Lu 镥 Lutetium [Xe]4f ¹⁴ 5d ¹ 6s ² |
| 89 [227] Ac 锕 Actinium [Rn]6d ¹ 7s ² | 90 232.0 Th 钍 Thorium [Rn]6d ² 7s ² | 91 231.0 Pa 镤 Protactinium [Rn]5f ² 6d ¹ 7s ² | 92 238.0 U 铀 Uranium [Rn]5f ³ 6d ¹ 7s ² | 93 [237] Np 镎 Neptunium [Rn]5f ⁴ 6d ¹ 7s ² | 94 [244] Pu 钚 Plutonium [Rn]5f ⁶ 7s ² | 95 [243] Am 镅 Americium [Rn]5f ⁷ 7s ² | 96 [247] Cm 锔 Curium [Rn]5f ⁷ 6d ¹ 7s ² | 97 [247] Bk 锫 Berkelium [Rn]5f ⁹ 7s ² | 98 [251] Cf 锿 Californium [Rn]5f ¹⁰ 7s ² | 99 [252] Es 镱 Einsteinium [Rn]5f ¹¹ 7s ² | 100 [252] Fm 镆 Fermium [Rn]5f ¹² 7s ² | 101 [258] Md 镎 Mendelevium [Rn]5f ¹³ 7s ² | 102 [259] No 镎 Nobelium [Rn]5f ¹⁴ 7s ² | 103 [262] Lr 铹 Lawrencium [Rn]5f ¹⁴ 7s ² 7p ¹ |