

元素周期表

PERIODIC TABLE OF ELEMENTS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|--|---|--|--|--|--|---|--|---|---|---|--|--|--|--|---|---|--|---|--|---|--|---|---|--|---|
| IA | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | |
| 1 H 氢 Hydrogen 1.008 | | | | | | | | | | | 2 He 氦 Helium 4.008 | | | | | | | | | | | | | | | | | | |
| 3 Li 锂 Lithium 6.94 0.052 | 4 Be 铍 Beryllium 9.012 0.110 | | | | | | | | | | | 5 B 硼 Boron 10.81 0.185 | 6 C 碳 Carbon 12.01 0.282 | 7 N 氮 Nitrogen 14.01 0.392 | 8 O 氧 Oxygen 15.99 0.523 | 9 F 氟 Flourine 18.99 0.677 | 10 Ne 氖 Neon 20.17 0.861 | | | | | | | | | | | | |
| 11 Na 钠 Sodium 22.99 1.041 | 12 Mg 镁 Magnesium 24.31 1.254 | 13 Al 铝 Aluminum 26.99 1.487 | 14 Si 硅 Silicon 28.09 1.740 1.838 | 15 P 磷 Phosphorus 30.97 2.015 2.142 | 16 S 硫 Sulphur 32.06 2.307 2.468 | 17 Cl 氯 Chlorine 35.45 2.622 2.817 | 18 Ar 氩 Argon 39.94 2.957 3.191 | | | | | 19 K 钾 Potassium 39.1 3.312 3.589 | 20 Ca 钙 Calcium 40.08 3.690 4.012 0.341 0.344 | 21 Sc 钪 Scandium 44.96 4.088 4.459 0.395 0.399 | 22 Ti 钛 Titanium 47.90 4.508 4.931 0.452 0.458 | 23 V 钒 Vanadium 50.94 4.949 5.427 0.51 0.519 | 24 Cr 铬 Chromium 51.99 5.411 5.947 0.571 0.581 | 25 Mn 锰 Manganese 54.94 5.895 6.492 0.636 0.647 | 26 Fe 铁 Iron 55.84 6.400 7.059 0.704 0.717 | 27 Co 钴 Cobalt 58.93 6.925 7.649 0.775 0.790 | 28 Ni 镍 Nickel 58.7 7.472 8.265 0.849 0.866 | 29 Cu 铜 Copper 63.54 8.041 8.907 0.928 0.948 | 30 Zn 锌 Zinc 65.38 9.572 1.009 1.032 | 31 Ga 镓 Gallium 69.72 9.243 1.096 1.122 | 32 Ge 锗 Germanium 72.5 9.876 1.186 1.216 | 33 As 砷 Arsenic 74.92 10.53 1.282 1.317 | 34 Se 硒 Selenium 78.9 11.21 1.379 1.419 | 35 Br 溴 Bromine 79.90 11.91 1.48 1.526 | 36 Kr 氪 Krypton 83.8 12.63 14.12 1.587 1.638 |
| 37 Rb 铷 Rubidium 85.47 13.38 14.97 1.694 1.752 | 38 Sr 锶 Strontium 87.82 14.14 15.85 1.806 1.872 | 39 Y 钇 Yttrium 88.91 14.93 16.75 1.922 1.996 | 40 Zr 锆 Zirconium 91.22 15.75 17.69 18.65 19.63 2.042 2.166 2.124 2.302 1.792 | 41 Nb 铌 Niobium 92.91 16.58 18.65 19.63 2.293 2.293 2.257 2.462 1.902 | 42 Mo 钼 Molybdenum 95.94 17.44 19.63 2.293 2.395 2.623 2.015 | 43 Tc 锝# Technetium(99) 101.0 20.65 2.424 2.538 2.792 2.122 | 44 Ru 钌 Ruthenium 101.0 19.24 21.69 2.558 2.683 2.964 2.252 | 45 Rh 铑 Rhodium 102.9 20.17 22.76 2.696 2.834 3.144 2.376 | 46 Pd 钯 Palladium 106.4 21.12 23.86 2.838 2.990 3.328 2.503 | 47 Ag 银 Silver 107.9 22.10 24.99 2.984 3.151 3.519 2.633 | 48 Cd 镉 Cadmium 112.4 23.11 26.14 3.133 3.316 3.716 2.767 | 49 In 铟 Indium 114.8 24.14 27.38 3.287 3.487 3.92 2.904 | 50 Sn 锡 Tin 118.6 25.19 28.60 3.444 3.662 4.131 3.044 | 51 Sb 锑 Antimony 121.7 26.27 29.85 3.605 3.843 4.347 3.188 | 52 Te 碲 Tellurium 127.6 27.38 31.13 3.769 4.029 4.570 3.335 | 53 I 碘 Iodine 126.9 28.51 32.44 3.937 4.220 4.800 3.484 | 54 Xe 氙 Xenon 131.3 29.67 33.78 4.111 4.422 5.036 3.636 | | | | | | | | | | | | |
| 55 Cs 铯 Cesium 137.3 30.85 35.15 4.286 4.620 5.280 3.794 | 56 Ba 钡 Barium 137.3 32.07 36.55 4.467 4.828 5.531 3.953 | Ln 镧系 | 72 Hf 铪 Hafnium 178.4 55.38 63.56 7.898 9.021 10.51 6.958 | 73 Ta 钽 Tantalum 180.9 57.11 65.56 8.145 9.341 10.81 7.172 | 74 W 钨 Tungsten 183.8 58.86 67.59 8.396 9.670 11.28 7.386 | 75 Re 铼 Rhenium 186.2 60.66 69.66 8.651 10.01 11.68 7.602 | 76 Os 锇 Osmium 190.2 62.48 71.78 8.910 10.35 12.09 7.821 | 77 Ir 铱 Iridium 192.2 64.35 73.93 9.173 10.71 12.51 8.040 | 78 Pt 铂 Platinum 195.0 66.25 76.13 9.441 11.07 12.94 8.267 | 79 Au 金 Gold 197.0 68.19 78.37 9.711 11.44 13.38 8.493 | 80 Hg 汞 Mercury 200.5 70.16 80.66 9.987 11.82 13.82 8.720 | 81 Tl 铊 Thallium 204.3 72.18 82.99 10.27 12.21 14.28 8.952 | 82 Pb 铅 Lead 207.2 74.23 85.36 10.55 12.61 14.76 9.183 | 83 Bi 铋 Bismuth 208.9 76.32 87.77 10.84 13.02 15.24 9.419 | 84 Po 钋# Polonium (209) 78.46 90.24 11.13 13.44 15.74 9.662 | 85 At 砹# Astatine (210) 80.64 92.75 11.42 13.87 16.25 | 86 Rn 氡# Radon (222) 82.86 95.32 11.72 14.32 16.77 | | | | | | | | | | | | |
| 87 Fr 钫# Francium (223) 82.12 97.93 12.03 14.77 | 88 Ra 镭# Radium (226) 87.44 100.6 12.34 15.23 17.80 10.62 | An 锕系 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- 碱金属 Alkali Metals
- 非金属 Non-Metal
- 过渡金属 Transitional element
- 卤族元素 Halogen
- 镧系金属 Lanthanoids
- 锕系金属 Actinides
- 碱土金属 Alkaline earth
- 主族金属 Rare gases
- 稀有气体 Main group metal

注1: #表示放射性元素(#Radioactive Elements), *表示人造元素(*Man Made Elements)

注2: 数字顺序依次代表原子量, K α 、K β 、L α 、L β 、L γ 、L ϵ

(All the Numbers are ordered one by one in this way, Atomic Number Element Symbol, Atomic Weight, K α , K β , L α , L β , L γ , L ϵ)

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|-------|--|--|---|--|--|---|---|---|--|---|--|---|--|--|---|
| Ln 镧系 | 57 La 镧 Lanthanum 138.9 33.30 37.99 4.651 5.043 5.789 4.124 | 58 Ce 铈 Cerium 140.1 34.57 39.45 4.840 5.262 6.052 4.287 | 59 Pr 镨 Praseodymium 140.9 35.86 40.95 4.840 5.489 6.322 4.452 | 60 Nd 钕 Neodymium 144.2 37.19 42.48 5.230 5.722 6.602 4.632 | 61 Pm 钷# Promethium (147) 38.54 44.05 5.431 5.956 6.891 4.816 | 62 Sm 钐 Samarium 150.4 39.91 45.65 5.636 6.206 7.180 4.994 | 63 Eu 铕 Europium 152.0 41.32 47.28 5.846 6.456 7.478 5.176 | 64 Gd 钆 Gadolinium 157.2 42.76 48.95 6.059 6.714 7.778 5.361 | 65 Tb 铽 Terbium 158.9 44.23 50.65 6.275 6.979 8.104 5.546 | 66 Dy 镝 Dysprosium 162.5 45.73 52.38 6.495 7.249 8.418 5.742 | 67 Ho 铥 Holmium 164.9 47.26 54.16 6.720 7.528 8.748 5.942 | 68 Er 铒 Erbium 167.2 48.82 55.96 6.948 7.810 9.089 6.152 | 69 Tm 铥 Thulium 168.9 50.41 57.81 7.181 8.103 9.424 6.341 | 70 Yb 镱 Ytterbium 173.0 52.04 59.69 7.414 8.401 9.779 6.544 | 71 Lu 镥 Lutetium 175.0 53.59 61.61 7.654 8.708 10.14 6.752 |
| An 锕系 | 89 Ac 锕# Actinium (227) 89.79 103.3 12.65 15.71 18.41 | 90 Th 钍# Thorium (232) 92.19 106.1 12.97 16.2 18.98 11.12 | 91 Pa 镤# Protactinium 231.0 94.64 108.9 13.29 16.7 19.55 11.36 | 92 U 铀# Uranium 238.0 97.14 111.8 13.61 17.22 20.16 11.62 | 93 Np 镎# Neptunium (237) 99.69 114.7 13.95 17.74 20.77 11.89 | 94 Pu 钚# Plutonium (244) 102.3 117.7 14.28 18.28 21.40 12.12 | 95 Am 镅# Americium (243) 104.9 120.8 14.62 18.83 22.04 12.38 | 96 Cm 锔# Curium (247) 107.7 123.9 14.96 19.39 22.69 | 97 Bk 锫# Berkelium (247) 110.5 127.1 15.31 19.97 23.37 | 98 Cf 锿# Californium (251) 113.3 130.4 15.66 20.56 24.06 | 99 Es 镅# Einsteinium (252) 116.2 133.7 16.02 21.17 24.76 | 100 Fm 镆# Fermium (257) 119.2 137.2 16.38 21.79 25.47 | | | |