

元素周期表

— 快乐科研 品质之选 —

1 IA 1 H 氢 qīng Hydrogen 1s ¹ 1.01	2 IIA 4 He 氦 hài Helium 1s ² 4.00	3 IIIB 3 Li 锂 lì Lithium 2s ¹ 6.94	4 IIA 4 Be 铍 pí Beryllium 2s ² 9.01	5 VB 23 V 钒 fán Vanadium 3d ³ 4s ² 50.94	6 VIB 24 Cr 铬 gè Chromium 3d ⁵ 4s ¹ 52.00	7 VIIB 25 Mn 锰 měng Manganese 3d ⁵ 4s ² 54.94	8 VIII 26 Fe 铁 tiě Iron 3d ⁶ 4s ² 55.85	9 VIII 27 Co 钴 gǔ Cobalt 3d ⁷ 4s ² 58.93	10 VIII 28 Ni 镍 niè Nickel 3d ⁸ 4s ² 58.69	11 IB 29 Cu 铜 tóng Copper 3d ¹⁰ 4s ¹ 63.55	12 IIB 30 Zn 锌 xīn Zinc 3d ¹⁰ 4s ² 65.38	13 IIIA 5 B 硼 péng Boron 2s ² 2p ¹ 10.81	14 IVA 6 C 碳 tàn Carbon 2s ² 2p ² 12.01	15 VA 7 N 氮 dàn Nitrogen 2s ² 2p ³ 14.01	16 VIA 8 O 氧 yǎng Oxygen 2s ² 2p ⁴ 16.00	17 VIIA 9 F 氟 fú Fluorine 2s ² 2p ⁵ 19.00	18 VIIIA 10 Ne 氖 nǐ Neon 2s ² 2p ⁶ 20.18		
11 IA 11 Na 钠 nà Sodium 3s ¹ 22.99	12 IIA 12 Mg 镁 měi Magnesium 3s ² 24.31	19 IA 19 K 钾 jiǎ Potassium 4s ¹ 39.10	20 IIA 20 Ca 钙 gài Calcium 4s ² 40.08	21 IIIB 21 Sc 钪 kàng Scandium 3d ¹ 4s ² 44.96	22 IVB 22 Ti 钛 tài Titanium 3d ² 4s ² 47.87	23 VB 23 V 钒 fán Vanadium 3d ³ 4s ² 50.94	24 VIB 24 Cr 铬 gè Chromium 3d ⁵ 4s ¹ 52.00	25 VIIB 25 Mn 锰 měng Manganese 3d ⁵ 4s ² 54.94	26 VIII 26 Fe 铁 tiě Iron 3d ⁶ 4s ² 55.85	27 VIII 27 Co 钴 gǔ Cobalt 3d ⁷ 4s ² 58.93	28 VIII 28 Ni 镍 niè Nickel 3d ⁸ 4s ² 58.69	29 IB 29 Cu 铜 tóng Copper 3d ¹⁰ 4s ¹ 63.55	30 IIB 30 Zn 锌 xīn Zinc 3d ¹⁰ 4s ² 65.38	31 IIIA 31 Ga 镓 jiǎ Gallium 4s ² 4p ¹ 69.72	32 IVA 32 Ge 锗 zhè Germanium 4s ² 4p ² 72.61	33 VA 33 As 砷 shǐ Arsenic 4s ² 4p ³ 74.92	34 VIA 34 Se 硒 xī Selenium 4s ² 4p ⁴ 78.96	35 VIIA 35 Br 溴 xiù Bromine 4s ² 4p ⁵ 79.90	36 VIIIA 36 Kr 氪 kè Krypton 4s ² 4p ⁶ 83.80
37 IA 37 Rb 铷 rú Rubidium 5s ¹ 85.47	38 IIA 38 Sr 锶 sī Strontium 5s ² 87.62	39 IIIB 39 Y 钇 yī Yttrium 4d ¹ 5s ² 88.91	40 IVB 40 Zr 锆 gào Zirconium 4d ² 5s ² 91.22	41 VB 41 Nb 铌 ní Niobium 4d ⁴ 5s ¹ 92.91	42 VIB 42 Mo 钼 mù Molybdenum 4d ⁵ 5s ¹ 95.94	43 VIIB 43 Tc 锝 dé Technetium 4d ⁵ 5s ² [99]	44 VIII 44 Ru 钌 liǎo Ruthenium 4d ⁷ 5s ¹ 101.10	45 VIII 45 Rh 铑 láo Rhodium 4d ⁸ 5s ¹ 102.90	46 VIII 46 Pd 钯 bá Palladium 4d ¹⁰ 106.40	47 IB 47 Ag 银 yín Silver 4d ¹⁰ 5s ¹ 107.90	48 IIB 48 Cd 镉 gé Cadmium 4d ¹⁰ 5s ² 112.40	49 IIIA 49 In 铟 yīn Indium 5s ² 5p ¹ 114.80	50 IVA 50 Sn 锡 xī Tin 5s ² 5p ² 118.70	51 VA 51 Sb 锑 qī Antimony 5s ² 5p ³ 121.80	52 VIA 52 Te 碲 dì Tellurium 5s ² 5p ⁴ 127.60	53 VIIA 53 I 碘 diàn Iodine 5s ² 5p ⁵ 126.90	54 VIIIA 54 Xe 氙 xiān Xenon 5s ² 5p ⁶ 131.30		
55 IA 55 Cs 铯 sè Cesium 6s ¹ 132.90	56 IIA 56 Ba 钡 bài Barium 6s ² 137.30	57-71 La-Lu 镧系 La-Lu	72 IVB 72 Hf 铪 hā Hafnium 5d ² 6s ² 178.50	73 VB 73 Ta 钽 tǎn Tantalum 5d ⁴ 6s ² 180.95	74 VIB 74 W 钨 wū Tungsten 5d ⁴ 6s ² 183.80	75 VIIB 75 Re 铼 lái Rhenium 5d ⁵ 6s ² 186.20	76 VIII 76 Os 锇 è Osmium 5d ⁶ 6s ² 190.20	77 VIII 77 Ir 铱 yī Iridium 5d ⁷ 6s ² 192.20	78 VIII 78 Pt 铂 bó Platinum 5d ⁹ 6s ¹ 195.10	79 IB 79 Au 金 jīn Gold 5d ¹⁰ 6s ¹ 197.00	80 IIB 80 Hg 汞 gǒng Mercury 5d ¹⁰ 6s ² 200.60	81 IIIA 81 Tl 铊 tā Thallium 6s ² 6p ¹ 204.40	82 IVA 82 Pb 铅 qiān Lead 6s ² 6p ² 207.20	83 VA 83 Bi 铋 bì Bismuth 6s ² 6p ³ 209.00	84 VIA 84 Po 钋 pō Polonium 6s ² 6p ⁴ [209]	85 VIIA 85 At 砹 ài Astatine 6s ² 6p ⁵ [210]	86 VIIIA 86 Rn 氡 dōng Radon 6s ² 6p ⁶ [222]		
87 IA 87 Fr 钫 fāng Francium 7s ¹ [223]	88 IIA 88 Ra 镭 lái Radium 7s ² [226]	89-103 Ac-Lr 锕系 Ac-Lr	104 IVB 104 Rf 钚 zhù Rutherfordium 5d ⁴ 7s ² [261]	105 VB 105 Db 𨭎 dū Dubnium 5d ⁴ 7s ² [262]	106 VIB 106 Sg 𨭉 sē Seaborgium 5d ⁴ 7s ² [266]	107 VIIB 107 Bh 𨭊 bh Bohrium 5d ⁴ 7s ² [264]	108 VIII 108 Hs 𨭋 hs Hassium 5d ⁶ 7s ² [277]	109 VIII 109 Mt 𨭌 mt Meitnerium 5d ⁷ 7s ² [268]	110 VIII 110 Ds 𨭎 ds Darmstadtium 5d ⁸ 7s ² [281]	111 IB 111 Rg 𨭏 rg Roentgenium 5d ⁹ 7s ² [272]	112 IIB 112 Cn 𨭐 cn Copernicium 5d ¹⁰ 7s ² [285]	113 IIIA 113 Uut 𨭑 ut Ununtrium 5d ¹⁰ 7s ² [286]	114 IVA 114 Uuq 𨭒 uq Ununquadium 5d ¹⁰ 7s ² [289]	115 VA 115 Uup 𨭓 up Ununpentium 5d ¹⁰ 7s ² [290]	116 VIA 116 Uuh 𨭔 uh Ununhexium 5d ¹⁰ 7s ² [293]	117 VIIA 117 Uus 𨭕 us Ununseptium 5d ¹⁰ 7s ² [294]	118 VIIIA 118 Uuo 𨭖 uo Ununoctium 5d ¹⁰ 7s ² [294]		

樂研
- leyan.com.cn -
400-821-0725
product@leyan.com.cn
www.leyan.com.cn

57-71 La-Lu 镧系 La-Lu	57 镧 lán Lanthanum 5d ¹ 6s ² 138.90	58 铈 shì Cerium 4f ¹ 5d ¹ 6s ² 140.10	59 镨 pǔ Praseodymium 4f ² 6s ² 140.90	60 钕 nǐ Neodymium 4f ⁴ 6s ² 144.20	61 钷 pǐ Promethium 4f ⁵ 6s ² [145]	62 钐 shān Samarium 4f ⁶ 6s ² 150.40	63 铕 yōu Europium 4f ⁷ 6s ² 152.00	64 钆 gá Gadolinium 4f ⁷ 5d ¹ 6s ² 157.30	65 铽 tè Terbium 4f ⁹ 6s ² 158.90	66 镱 yì Dysprosium 4f ¹⁰ 6s ² 162.50	67 铥 diū Holmium 4f ¹¹ 6s ² 164.90	68 铒 ěr Erbium 4f ¹² 6s ² 167.30	69 铥 diū Thulium 4f ¹³ 6s ² 168.90	70 镱 yì Ytterbium 4f ¹⁴ 6s ² 173.00	71 镱 lù Lutetium 4f ¹⁴ 5d ¹ 6s ² 175.00
89-103 Ac-Lr 锕系 Ac-Lr	89 锕 ā Actinium 6d ¹ 7s ² [227]	90 钍 thù Thorium 6d ² 7s ² [232]	91 镤 pǔ Protactinium 5f ¹ 6d ¹ 7s ² [231]	92 铀 yóu Uranium 5f ³ 6d ¹ 7s ² [238]	93 镎 nǎ Neptunium 5f ⁴ 6d ¹ 7s ² [237]	94 钚 zhù Plutonium 5f ⁶ 7s ² [244]	95 镅 mèi Americium 5f ⁷ 7s ² [243]	96 锔 jù Curium 5f ⁸ 7s ² [247]	97 锿 ěi Berkelium 5f ⁹ 7s ² [247]	98 锿 kāi Californium 5f ¹⁰ 7s ² [251]	99 锿 āi Einsteinium 5f ¹¹ 7s ² [252]	100 镆 fèi Fermium 5f ¹² 7s ² [257]	101 镈 bù Mendelevium 5f ¹³ 7s ² [258]	102 镉 nuò Nobelium 5f ¹⁴ 7s ² [259]	103 镱 láo Lawrencium 5f ¹⁴ 6d ¹ 7s ² [260]

Common Constants					
Absolute Zero	-273.15 °C	Gravitation Constant	G	6.67428x10 ⁻¹¹ m ³ kg ⁻¹ s ⁻²	
Atomic Mass Unit	m _u	1.660539x10 ⁻²⁷ kg	Molar Gas Constant	R	8.314472 J mol ⁻¹ K ⁻¹
Avogadro Constant	N _A	6.022142x10 ²³ mol ⁻¹	Molar Volume (Ideal Gas)	V _m	0.02241410 m ³ /mol
Base of Natural Logarithms	e	2.718281828	PI	P	3.14159265358979
Boltzmann constant	k	1.380650x10 ⁻²³ J/K	Planck Constant	h	6.626069x10 ⁻³⁴ J s
Electron Mass	m _e	9.10938215x10 ⁻³¹ kg	Proton-Electron Mass Ratio	m _p /m _e	1836.15267247
Electron Radius (Classical)	r ₀	2.8179403x10 ⁻¹⁵ m	Rydberg Constant	R _∞	10 973 732 m ⁻¹
Electron Volt	eV	1.602176x10 ⁻¹⁹ J	R _{∞hc}	3.289842x10 ¹⁵ Hz	
Elementary Charge	e	1.602176x10 ⁻¹⁹ C	Second Radiation Constant	ch/k	0.01438769 m K
Faraday Constant	f	96 485.3399 C/mol	Speed of Light in a Vacuum	c	299 792 458 m/s
fine-structure constant	α	0.0072973525	Speed of sound in air at STP		343.2 m/s
First Radiation Constant	2πhc ²	3.7417749x10 ⁻¹⁶ W m ²	Standard Pressure		101 325 Pa

□ 金属 □ 非金属 □ 放射性元素

原子序数 元素中文名称/读音 元素符号 外层电子排布
 元素名称 相对原子质量 化合价 同位素质量数(质子数+中子数)
 密度 电负性 电离能(eV) 熔点/沸点(°C) 注: 固体密度单位是 g/cm³; 气体密度单位是 g/L 或者 Kg/m³ (在0摄氏度的条件下)

● 黑色标注: 该核素稳定
● 红色标注: 该核素具有放射性

● 同位素丰度(同位素的摩尔分数)