

PERIODIC TABLE Atomic Properties of the Elements

Frequently used fundamental physical constants
For the most accurate values of these and other constants, visit physics.nist.gov/constants
1 second = 9 192 631 770 periods of radiation corresponding to the transition between the two hyperfine levels of the ground state of ¹³³Cs

speed of light in vacuum	c	299 792 458 m s ⁻¹ (exact)
Planck constant	h	6.626 070 15 × 10 ⁻³⁴ J s (exact)
elementary charge	e	1.602 176 634 × 10 ⁻¹⁹ C (exact)
electron mass	m_e	9.109 382 91 × 10 ⁻³¹ kg
proton mass	m_p	1.672 621 9 × 10 ⁻²⁷ kg
fine-structure constant	α	7.297 352 569 8 × 10 ⁻³
Rydberg constant	R_∞	10 973 731.568 162 × 10 ¹⁰ m ⁻¹
	R_H	1.097 373 156 816 × 10 ⁷ m ⁻¹
Boltzmann constant	k	1.380 658 × 10 ⁻²³ J K ⁻¹

■ Solids
■ Liquids
■ Gases
■ Artificially Prepared

Physics Laboratory physics.nist.gov		Standard Reference Data www.nist.gov/stdref/				
13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA	
5 B Boron 10.811 [10.811] [10.811]	6 C Carbon 12.011 [12.011] [12.011]	7 N Nitrogen 14.007 [14.007] [14.007]	8 O Oxygen 15.999 [15.999] [15.999]	9 F Fluorine 18.998 [18.998] [18.998]	10 Ne Neon 20.180 [20.180] [20.180]	
13 Al Aluminum 26.982 [26.982] [26.982]	14 Si Silicon 28.086 [28.086] [28.086]	15 P Phosphorus 30.974 [30.974] [30.974]	16 S Sulfur 32.06 [32.06] [32.06]	17 Cl Chlorine 35.45 [35.45] [35.45]	18 Ar Argon 39.948 [39.948] [39.948]	
31 Ga Gallium 69.723 [69.723] [69.723]	32 Ge Germanium 72.63 [72.63] [72.63]	33 As Arsenic 74.922 [74.922] [74.922]	34 Se Selenium 78.96 [78.96] [78.96]	35 Br Bromine 79.904 [79.904] [79.904]	36 Kr Krypton 83.798 [83.798] [83.798]	
49 In Indium 114.818 [114.818] [114.818]	50 Sn Tin 118.710 [118.710] [118.710]	51 Sb Antimony 121.757 [121.757] [121.757]	52 Te Tellurium 127.60 [127.60] [127.60]	53 I Iodine 126.905 [126.905] [126.905]	54 Xe Xenon 131.29 [131.29] [131.29]	
81 Tl Thallium 204.384 [204.384] [204.384]	82 Pb Lead 207.2 [207.2] [207.2]	83 Bi Bismuth 208.980 [208.980] [208.980]	84 Po Polonium [209] [209] [209]	85 At Astatine [210] [210] [210]	86 Rn Radon [222] [222] [222]	
113 Uut Ununtrium [288] [288] [288]	114 Uuq Ununquadium [289] [289] [289]	115 Uup Ununpentium [290] [290] [290]	116 Uuh Ununhexium [291] [291] [291]	117 Uus Ununseptium [292] [292] [292]	118 Uuo Ununoctium [293] [293] [293]	

Period

Group	1 IA	2 IIA
1	1 H Hydrogen 1.008 [1.008] [1.008]	
2	3 Li Lithium 6.941 [6.941] [6.941]	4 Be Beryllium 9.012 [9.012] [9.012]
3	11 Na Sodium 22.990 [22.990] [22.990]	12 Mg Magnesium 24.305 [24.305] [24.305]
4	19 K Potassium 39.098 [39.098] [39.098]	20 Ca Calcium 40.078 [40.078] [40.078]
5	37 Rb Rubidium 85.468 [85.468] [85.468]	38 Sr Strontium 87.62 [87.62] [87.62]
6	55 Cs Cesium 132.905 [132.905] [132.905]	56 Ba Barium 137.327 [137.327] [137.327]
7	87 Fr Francium [223] [223] [223]	88 Ra Radium [226] [226] [226]

3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIII	9 VIII	10 VIII	11 IB	12 IIB
21 Sc Scandium 44.956 [44.956] [44.956]	22 Ti Titanium 47.88 [47.88] [47.88]	23 V Vanadium 50.942 [50.942] [50.942]	24 Cr Chromium 51.996 [51.996] [51.996]	25 Mn Manganese 54.938 [54.938] [54.938]	26 Fe Iron 55.845 [55.845] [55.845]	27 Co Cobalt 58.933 [58.933] [58.933]	28 Ni Nickel 58.693 [58.693] [58.693]	29 Cu Copper 63.546 [63.546] [63.546]	30 Zn Zinc 65.38 [65.38] [65.38]
39 Y Yttrium 88.906 [88.906] [88.906]	40 Zr Zirconium 91.224 [91.224] [91.224]	41 Nb Niobium 92.906 [92.906] [92.906]	42 Mo Molybdenum 95.94 [95.94] [95.94]	43 Tc Technetium [98] [98] [98]	44 Ru Ruthenium 101.07 [101.07] [101.07]	45 Rh Rhodium 101.07 [101.07] [101.07]	46 Pd Palladium 106.36 [106.36] [106.36]	47 Ag Silver 107.868 [107.868] [107.868]	48 Cd Cadmium 112.411 [112.411] [112.411]
72 Hf Hafnium 178.49 [178.49] [178.49]	73 Ta Tantalum 180.948 [180.948] [180.948]	74 W Tungsten 183.84 [183.84] [183.84]	75 Re Rhenium 186.207 [186.207] [186.207]	76 Os Osmium 190.23 [190.23] [190.23]	77 Ir Iridium 192.222 [192.222] [192.222]	78 Pt Platinum 195.084 [195.084] [195.084]	79 Au Gold 196.967 [196.967] [196.967]	80 Hg Mercury 200.59 [200.59] [200.59]	81 Tl Thallium 204.384 [204.384] [204.384]
104 Rf Rutherfordium [261] [261] [261]	105 Db Dubnium [262] [262] [262]	106 Sg Seaborgium [263] [263] [263]	107 Bh Bohrium [264] [264] [264]	108 Hs Hassium [265] [265] [265]	109 Mt Meitnerium [266] [266] [266]	110 Ds Darmstadtium [267] [267] [267]	111 Rg Roentgenium [268] [268] [268]	112 Cn Copernicium [269] [269] [269]	113 Uut Ununtrium [288] [288] [288]

Atomic Number: 58
 Ground-state Level: [Xe] 4f⁷ 5d¹ 6s²
 Symbol: **Ce**
 Name: Cerium
 Atomic Weight: 140.116 [140.116]
 Ground-state Configuration: [Xe] 4f⁷ 5d¹ 6s²
 Ionization Energy (eV): 5.5387

Lanthanides		Actinides												
57 La Lanthanum 138.905 [138.905] [138.905]	58 Ce Cerium 140.116 [140.116] [140.116]	59 Pr Praseodymium 140.908 [140.908] [140.908]	60 Nd Neodymium 144.242 [144.242] [144.242]	61 Pm Promethium [145] [145] [145]	62 Sm Samarium 150.36 [150.36] [150.36]	63 Eu Europium 151.964 [151.964] [151.964]	64 Gd Gadolinium 157.25 [157.25] [157.25]	65 Tb Terbium 158.925 [158.925] [158.925]	66 Dy Dysprosium 162.50 [162.50] [162.50]	67 Ho Holmium 164.930 [164.930] [164.930]	68 Er Erbium 167.259 [167.259] [167.259]	69 Tm Thulium 168.934 [168.934] [168.934]	70 Yb Ytterbium 173.054 [173.054] [173.054]	71 Lu Lutetium 174.967 [174.967] [174.967]
89 Ac Actinium [227] [227] [227]	90 Th Thorium 232.038 [232.038] [232.038]	91 Pa Protactinium 231.036 [231.036] [231.036]	92 U Uranium 238.029 [238.029] [238.029]	93 Np Neptunium [237] [237] [237]	94 Pu Plutonium [244] [244] [244]	95 Am Americium [243] [243] [243]	96 Cm Curium [247] [247] [247]	97 Bk Berkelium [247] [247] [247]	98 Cf Californium [251] [251] [251]	99 Es Einsteinium [252] [252] [252]	100 Fm Fermium [257] [257] [257]	101 Md Mendelevium [258] [258] [258]	102 No Nobelium [259] [259] [259]	103 Lr Lawrencium [260] [260] [260]

*Based upon ¹²C. () indicates the mass number of the longest-lived isotope.

For a description of the data, visit physics.nist.gov/data

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