

PERIODIC TABLE OF THE ELEMENTS

<http://www.periodni.com>

| PERIOD | GROUP 1 IA | GROUP 2 IIA | RELATIVE ATOMIC MASS (1) | | | | | | | | | | GROUP 13 IIIA | GROUP 14 IVA | GROUP 15 VA | GROUP 16 VIA | GROUP 17 VIIA | GROUP 18 VIIIA | | | | | | | | | | |
|--------|------------------------------------|-------------------------------------|---|---|------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|--|---------------------------------|
| 1 | 1 1.0079 H HYDROGEN | | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>GROUP IUBAC</p> <p>ATOMIC NUMBER — 5</p> <p>SYMBOL — B</p> <p>ELEMENT NAME</p> </div> <div style="text-align: center;"> <p>GROUP CAS</p> <p>10.811</p> <p>B</p> <p>BORON</p> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0026 He HELIUM |
| 2 | 3 6.941 Li LITHIUM | 4 9.0122 Be BERYLLIUM | | | | | | | | | | | 5 10.811 B BORON | 6 12.011 C CARBON | 7 14.007 N NITROGEN | 8 15.999 O OXYGEN | 9 18.998 F FLUORINE | 10 20.180 Ne NEON | | | | | | | | | | |
| 3 | 11 22.990 Na SODIUM | 12 24.305 Mg MAGNESIUM | | | | | | | | | | | 13 26.982 Al ALUMINIUM | 14 28.086 Si SILICON | 15 30.974 P PHOSPHORUS | 16 32.065 S SULPHUR | 17 35.453 Cl CHLORINE | 18 39.948 Ar ARGON | | | | | | | | | | |
| 4 | 19 39.098 K POTASSIUM | 20 40.078 Ca CALCIUM | 21 44.956 Sc SCANDIUM | 22 47.867 Ti TITANIUM | 23 50.942 V VANADIUM | 24 51.996 Cr CHROMIUM | 25 54.938 Mn MANGANESE | 26 55.845 Fe IRON | 27 58.933 Co COBALT | 28 58.693 Ni NICKEL | 29 63.546 Cu COPPER | 30 65.38 Zn ZINC | 31 69.723 Ga GALLIUM | 32 72.64 Ge GERMANIUM | 33 74.922 As ARSENIC | 34 78.96 Se SELENIUM | 35 79.904 Br BROMINE | 36 83.798 Kr KRYPTON | | | | | | | | | | |
| 5 | 37 85.468 Rb RUBIDIUM | 38 87.62 Sr STRONTIUM | 39 88.906 Y YTTRIUM | 40 91.224 Zr ZIRCONIUM | 41 92.906 Nb NIOBIUM | 42 95.96 Mo MOLYBDENUM | 43 (98) Tc TECHNETIUM | 44 101.07 Ru RUTHENIUM | 45 102.91 Rh RHODIUM | 46 106.42 Pd PALLADIUM | 47 107.87 Ag SILVER | 48 112.41 Cd CADMIUM | 49 114.82 In INDIUM | 50 118.71 Sn TIN | 51 121.76 Sb ANTIMONY | 52 127.60 Te TELLURIUM | 53 126.90 I IODINE | 54 131.29 Xe XENON | | | | | | | | | | |
| 6 | 55 132.91 Cs CAESIUM | 56 137.33 Ba BARIUM | 57-71 La-Lu Lanthanide | 72 178.49 Hf HAFNIUM | 73 180.95 Ta TANTALUM | 74 183.84 W TUNGSTEN | 75 186.21 Re RHENIUM | 76 190.23 Os OSMIUM | 77 192.22 Ir IRIDIUM | 78 195.08 Pt PLATINUM | 79 196.97 Au GOLD | 80 200.59 Hg MERCURY | 81 204.38 Tl THALLIUM | 82 207.2 Pb LEAD | 83 208.98 Bi BISMUTH | 84 (209) Po POLONIUM | 85 (210) At ASTATINE | 86 (222) Rn RADON | | | | | | | | | | |
| 7 | 87 (223) Fr FRANCIUM | 88 (226) Ra RADIUM | 89-103 Ac-Lr Actinide | 104 (267) Rf RUTHERFORDIUM | 105 (268) Db DUBNIUM | 106 (271) Sg SEABORGIUM | 107 (272) Bh BOHRIUM | 108 (277) Hs HASIUM | 109 (276) Mt MEITNERIUM | 110 (281) Ds DARMSTADIUM | 111 (280) Rg ROENTGIUM | 112 (285) Cn COPERNICIUM | 113 (-) Uut UNUNTRIUM | 114 (287) Fl FLEROVIUM | 115 (-) Uup UNUNPENTIUM | 116 (291) Lv LIVERMORIUM | 117 (-) Uus UNUNSEPTIUM | 118 (-) Uuo UNUNOCTIUM | | | | | | | | | | |

| | | |
|--|--|---|
| ■ Metal | ■ Semimetal | ■ Nonmetal |
| ■ Alkali metal | ■ Chalcogen's element | |
| ■ Alkaline earth metal | ■ Halogen's element | |
| ■ Transition metals | ■ Noble gas | |
| ■ Lanthanide | | |
| ■ Actinide | | |

| | |
|---------------------------------|-----------------------|
| STANDARD STATE (25 °C; 101 kPa) | |
| Ne - gas | Fe - solid |
| Hg - liquid | Te - synthetic |

(1) Pure Appl. Chem., 81, No. 11, 2131-2156 (2009)
Relative atomic masses are expressed with five significant figures. For elements that have no stable nuclides, the value enclosed in brackets indicates the mass number of the longest-lived isotope of the element. However three such elements (Th, Pa and U) do have a characteristic terrestrial isotopic composition, and for these an atomic weight is tabulated.

LANTHANIDE

| | | | | | | | | | | | | | | |
|-------------------------------------|----------------------------------|--|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------|------------------------------------|
| 57 138.91 La LANTHANUM | 58 140.12 Ce CERIUM | 59 140.91 Pr PRASEODYMIUM | 60 144.24 Nd NEODYMIUM | 61 (145) Pm PROMETHIUM | 62 150.36 Sm SAMARIUM | 63 151.96 Eu EUROPIUM | 64 157.25 Gd GADOLINIUM | 65 158.93 Tb TERBIUM | 66 162.50 Dy DYSPROSIUM | 67 164.93 Ho HOLMIUM | 68 167.26 Er ERBIUM | 69 168.93 Tm THULIUM | 70 173.05 Yb YTTERBIUM | 71 174.97 Lu LUTETIUM |
|-------------------------------------|----------------------------------|--|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------|------------------------------------|

ACTINIDE

| | | | | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|--|----------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------------------|------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|---------------------------------------|------------------------------------|--------------------------------------|
| 89 (227) Ac ACTINIUM | 90 232.04 Th THORIUM | 91 231.04 Pa PROTACTINIUM | 92 238.03 U URANIUM | 93 (237) Np NEPTUNIUM | 94 (244) Pu PLUTONIUM | 95 (243) Am AMERICIUM | 96 (247) Cm CURIUM | 97 (247) Bk BERKELIUM | 98 (251) Cf CALIFORNIUM | 99 (252) Es EINSTEINIUM | 100 (257) Fm FERMIUM | 101 (258) Md MENDELEVIUM | 102 (259) No NOBELIUM | 103 (262) Lr LAWRENCIUM |
|-----------------------------------|-----------------------------------|--|----------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------------------|------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|---------------------------------------|------------------------------------|--------------------------------------|