

PERIODIC TABLE OF THE ELEMENTS

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| GROUP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|--------|--------------------|--------------------|---------------------|---------------|---------|------------|---------|---------|-----------|-------------|------------|-------------|----------|--------|---------|----------|----------|----------|
| PERIOD | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 1 IA | 1 H 1.0079 | 2 IIA | 3 IIIB | 4 IVB | 5 VB | 6 VIB | 7 VIIB | 8 VIII | 9 VIII | 10 VIII | 11 IB | 12 IIB | 13 IIIA | 14 IVA | 15 VA | 16 VIA | 17 VIIA | 18 VIIIA |
| 2 | 3 Li 6.941 | 4 Be 9.0122 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 3 | 11 Na 22.990 | 12 Mg 24.305 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 4 | 19 K 39.098 | 20 Ca 40.078 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 5 | 37 Rb 85.468 | 38 Sr 87.62 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| 6 | 55 Cs 132.91 | 56 Ba 137.33 | 57-71 Lanthanide | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 |
| 7 | 87 Fr (223) | 88 Ra (226) | 89-103 Actinide | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 |
| | Fr | Ra | Ac-Lr | Rf | Db | Sg | Bh | Hs | Mt | Ds | Rg | Cn | Uu | Uu | Uu | Uu | Uu | Uu |
| | FRANCIUM | RADIUM | ACTINIDE | RUTHERFORDIUM | DUBNIUM | SEABORGIUM | BOHRIUM | HASSIUM | METTERIUM | DAZSTADTIUM | ROBERTSIUM | COPERNICIUM | THALLIUM | LEAD | BISMUTH | POLONIUM | ASTATINE | RADON |

GROUP NUMBERS
IUPAC RECOMMENDATION
(1985)

GROUP NUMBERS
CHEMICAL ABSTRACT SERVICE
(1986)

ATOMIC NUMBER

SYMBOL

ELEMENT NAME

B

BORON

10.811

RELATIVE ATOMIC MASS (1)

(1) Pure Appl. Chem., 81, No. 11, 2131-2156 (2009)

Relative atomic mass is shown with five significant figures. For elements with 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 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
| La | Ce | Pr | Nd | Pm | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu |
| LANTHANUM | CERIUM | PRASEODYMIUM | NEODYMIUM | PROMETHIUM | SAMARIUM | EUROPIUM | GAULINIUM | TERBIUM | DYSPROSIUM | HOLMIUM | ERBIUM | THULIUM | Ytterbium | LUTETIUM |

ACTINIDE

| | | | | | | | | | | | | | | |
|----------|---------|--------------|---------|-----------|-----------|-----------|--------|-----------|-------------|-------------|---------|------------|----------|------------|
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 |
| Ac | Th | Pa | U | Np | Pu | Am | Cm | Bk | Cf | Es | Fm | Md | No | Lr |
| ACTINIUM | THORIUM | PROTACTINIUM | URANIUM | NEPTUNIUM | PLUTONIUM | AMERICIUM | CURIUM | BERKELIUM | CALIFORNIUM | EINSTEINIUM | FERMIUM | MENDELVIUM | NOBELIUM | LAWRENCIUM |

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