

PERIODIC TABLE OF ELEMENTS

Ia HYDROGEN [1.007 - 1.009] H 1 1.008 1s ¹ -259.1 -252.9 GAS Hydrogenium	IIa BERYLLIUM 9.012 Be 4 9.012 [He]2s ² 1278 2469 1.85 Beryllium	IIIa BORON [10.80 - 10.83] B 5 10.81 [He]2s ² 2p ¹ 2076 3927 2.08 Borium	IVa CARBON [12.00 - 12.02] C 6 12.011 [He]2s ² 2p ² 3642 cy6л. 2.27 graphite	Va NITROGEN [14.00 - 14.01] N 7 14.007 [He]2s ² 2p ³ -210.0 -183.0 GAS Nitrogenium	VIa OXYGEN [15.99 - 16.00] O 8 15.999 [He]2s ² 2p ⁴ -218.8 -183.0 GAS Oxygenium	VIIa FLUORINE 19.00 F 9 18.998 [He]2s ² 2p ⁵ -219.6 -188.1 GAS Fluorium	VIIIa HELIUM 4.003 He 2 4.0026 1s ² -272.2 -268.9 GAS Helium
1 2 3 4 5 6 7	2 3 4 5 6 7	3 4 5 6 7	4 5 6 7	5 6 7	6 7	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103

Atomic weight notation

IUPAC adopted a decision to more accurately indicate the isotopic distribution of elements in nature and their atomic weights to move to a new form of their indication in the periodic table due to the significant difference in the isotopic compositions of some elements, depending on the way they are separated and located in nature. The following notation used:

- [12.00 - 12.02]** - the atomic weight is in this interval in natural materials;
- 78.96(3)** - value of atomic weight with reliable accuracy of determination in parentheses. If the accuracy is not given, then it is equal to ±1 last significant digit;
- 80.80#** - the value of atomic weight may differ from the average in some materials;
- 209*** - the element does not have stable isotopes. In this case, the mass number of the most stable isotope is given. However, for the thorium, protactinium and uranium, which are present in nature in sufficient quantity and have a more or less constant isotopic composition, an average value of the atomic weight.

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Key

Standard atomic weight: 95.96(2)#
 Atomic radius: 137
 Element symbol: Mo
 Oxidation stats: +2, +3, +4, +5, +6
 Melting point, °C: 2623
 Boiling point, °C: 4639
 Density, g/cm³: 10.28
 Name of element: Molybdenum
 Atomic number: 42
 Electronegativity (Pauling scale): 2.16
 Electron configuration: [Kr]4d⁵5s¹
 Electrons per shell: 2, 8, 18, 13, 2
 Latin name: Molebdaenium

LANTHANUM 138.9 La 57 138.9 [Xe]5d ¹ 6s ² Lanthanum	CERIUM 140.1# Ce 58 140.12 [Xe]4f ¹ 5d ¹ 6s ² Cerium	PRASEODYMIUM 140.9 Pr 59 140.907 [Xe]4f ³ 6s ² Praseodymium	NEODYMIUM 144.2# Nd 60 144.24 [Xe]4f ⁴ 6s ² Neodymium	PROMETHIUM 145* Pm 61 144.91 [Xe]4f ⁵ 6s ² Promethium	SAMARIUM 150.4# Sm 62 150.36 [Xe]4f ⁶ 6s ² Samarium	EUROPIUM 152.0# Eu 63 151.96 [Xe]4f ⁷ 6s ² Europium	GADOLINIUM 157.3# Gd 64 157.25 [Xe]4f ⁷ 5d ¹ 6s ² Gadolinium	TERBIUM 158.9 Tb 65 158.925 [Xe]4f ⁹ 6s ² Terbium	DYSPROSIUM 162.5# Dy 66 162.50 [Xe]4f ¹⁰ 6s ² Dysprosium	HOLMIUM 164.9 Ho 67 164.930 [Xe]4f ¹¹ 6s ² Holmium	ERBIUM 167.3# Er 68 167.255 [Xe]4f ¹² 6s ² Erbium	THULIUM 168.9 Tm 69 168.932 [Xe]4f ¹³ 6s ² Thulium	YTTERBIUM 173.1# Yb 70 173.045 [Xe]4f ¹⁴ 6s ² Ytterbium	LUTETIUM 175.0 Lu 71 174.967 [Xe]4f ¹⁴ 5d ¹ 6s ² Lutetium
ACTINIUM 227* Ac 89 227.03 [Rn]6d ¹ 7s ² Actinium	THORIUM 232.0* Th 90 232.037 [Rn]6d ² 7s ² Thorium	PROTACTINIUM 231.0* Pa 91 231.036 [Rn]5f ² 6d ¹ 7s ² Protactinium	URANIUM 238.0*# U 92 238.0289 [Rn]5f ³ 6d ¹ 7s ² Uranium	NEPTUNIUM 237* Np 93 237.0481 [Rn]5f ⁴ 6d ¹ 7s ² Neptunium	PLUTONIUM 244* Pu 94 244.0642 [Rn]5f ⁶ 7s ² Plutonium	AMERICIUM 243* Am 95 243.0613 [Rn]5f ⁷ 7s ² Americium	CURIUM 247* Cm 96 247.0753 [Rn]5f ⁷ 6d ¹ 7s ² Curium	BERKELIUM 247* Bk 97 247.07125 [Rn]5f ⁹ 7s ² Berkelium	CALIFORNIUM 251* Cf 98 251.0832 [Rn]5f ¹⁰ 7s ² Californium	EINSTEINIUM 252* Es 99 252.0832 [Rn]5f ¹¹ 7s ² Einsteinium	FERMIUM 257* Fm 100 257.10 [Rn]5f ¹² 7s ² Fermium	MENDELEVIUM 258* Md 101 258.10 [Rn]5f ¹³ 7s ² Mendelevium	NOBELIUM 259* No 102 259.10 [Rn]5f ¹⁴ 7s ² Nobelium	LAWRENCIUM 266* Lr 103 260.10 [Rn]5f ¹⁴ 6d ¹ 7s ² Lawrencium