

PERIODIC TABLE OF ELEMENTS

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.

IIIa BORON [10.80 - 10.83] B 5 [He]2s ² 2p 2076 3927 2.08 Borium	IVa CARBON [12.00 - 12.02] C 6 [He]2s ² 2p ² 3642 2.27 graphite Carbonium	Va NITROGEN [14.00 - 14.01] N 7 [He]2s ² 2p ³ -210.0 -195.8 GAS Nitrogenium	VIa OXYGEN [15.99 - 16.00] O 8 [He]2s ² 2p ⁴ -218.8 -183.0 GAS Oxygenum	VIIa FLUORINE 19.00 F 9 [He]2s ² 2p ⁵ -219.6 -188.1 GAS Fluorum	VIIa NEON 20.18 Ne 10 [He]2s ² 2p ⁶ -248.6 -246.0 GAS Neon
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IIb ZINC 65.38(2) Zn 30 [Ar]3d ¹⁰ 4s ² 419.5 907 7.14 Zincum	Ib COPPER 63.55 Cu 29 [Ar]3d ¹⁰ 4s ¹ 1084.6 2562 8.96 Cuprum	VIIIb IRON 55.85 Fe 26 [Ar]3d ⁶ 4s ² 1535 2730 7.874 Ferrum	VIIIb COBALT 58.93 Co 27 [Ar]3d ⁷ 4s ² 1495 2927 8.9 Cobaltum	VIIIb NICKEL 58.69 Ni 28 [Ar]3d ⁸ 4s ² 1455 2730 8.91 Niccolum	VIIIb MANGANESE 54.94 Mn 25 [Ar]3d ⁵ 4s ² 1246 2061 7.21 Manganum	VIIIb CHROMIUM 52.00 Cr 24 [Ar]3d ⁵ 4s ¹ 1907 2671 7.19 Chromium	VIIIb VANADIUM 50.94 V 23 [Ar]3d ³ 4s ² 1910 3407 6.00 Vanadium	IVb TITANIUM 47.87 Ti 22 [Ar]3d ² 4s ² 1668 3287 4.51 Titanium	IIIb SCANDIUM 44.96 Sc 21 [Ar]3d ¹ 4s ² 1541 2836 2.99 Scandium
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Key

- alkali metals
- alkaline earth metals
- transition metals
- other nonmetals
- halogens
- metalloids
- post-transition metals
- noble gases
- lanthanoids
- actinoids

Standard atomic weight

Atomic radius

Element symbol

Oxidation stats

Melting point, °C

Boiling point, °C

Density, g/cm³

MOLEBDENIUM
[Kr]4d⁵5s¹
42
2.16

Name of element

Atomic number

Electronegativity (Pauling scale)

Electron configuration

Electrons per shell

Latin name

Ver. 1.1.0

ACTINIUM 227* Ac 89 [Rn]6d ⁷ 7s ² 1227 3250 10.00 Actinium	THORIUM 232.0* Th 90 [Rn]6d ² 7s ² 1750 4788 11.78 Thorium	PROTACTINIUM 231.0* Pa 91 [Rn]5f ⁶ 6d ¹ 7s ² 1568 4027 15.37 Protactinium	URANIUM 238.0* U 92 [Rn]5f ⁶ 6d ¹ 7s ² 1132.2 4131 19.10 Uranium	NEPTUNIUM 237* Np 93 [Rn]5f ⁷ 7s ² 639 4174 20.45 alpha Neptunium	PLUTONIUM 244* Pu 94 [Rn]5f ⁷ 7s ² 639.4 3228 19.82 Plutonium	AMERICIUM 243* Am 95 [Rn]5f ⁷ 7s ² 1176 2607 12.00 Americium	CURIUM 247* Cm 96 [Rn]5f ⁷ 7s ² 1340 3110 13.51 Curium	BERKELIUM 247* Bk 97 [Rn]5f ⁷ 7s ² 986 2627 13.25 beta Berkelium	CALIFORNIUM 251* Cf 98 [Rn]5f ¹⁰ 7s ² 900 1470 15.1 Californium	EINSTEINIUM 252* Es 99 [Rn]5f ¹⁰ 7s ² 860 996 8.84 Einsteinium	FERMIUM 257* Fm 100 [Rn]5f ¹⁰ 7s ² 1527 ???? 9.7(1) Fermium	MENDELEVIUM 258* Md 101 [Rn]5f ¹⁰ 7s ² 827 ???? 10.3(7) Mendelevium	NOBELIUM 259* No 102 [Rn]5f ¹⁴ 7s ² 827 ???? 9.9(4) Nobelium	LAWRENCIUM 266* Lr 103 [Rn]5f ¹⁴ 7s ² 1627 ???? 15.1(5) Lawrencium
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