

Group
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IA

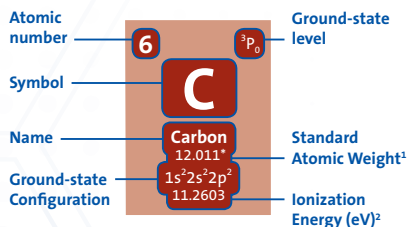


ACS Publications

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18
VIII A

1 H Hydrogen 1.008 1s 13.5984	2 He Helium 4.002602 1s 24.5874											13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIII A																																			
3 Li Lithium 6.94 1s ² 2s 5.3917	4 Be Beryllium 9.0121831 1s ² 2s ² 9.3227											5 B Boron 10.81 1s ² 2s ² 2p 8.2980	6 C Carbon 12.011 [*] 1s ² 2s ² 2p ² 11.2603	7 N Nitrogen 14.007 1s ² 2s ² 2p ³ 14.5341	8 O Oxygen 15.999 1s ² 2s ² 2p ⁴ 13.6181	9 F Fluorine 18.99840316 1s ² 2s ² 2p ⁵ 17.4228	10 Ne Neon 20.1797 1s ² 2s ² 2p ⁶ 21.5645											11 Na Sodium 22.98976928 [Ne]3s 5.1391	12 Mg Magnesium 24.305 [Ne]3s ² 7.6462	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8	9	10	11 IB	12 IIB													
19 K Potassium 39.0983 [Ar]4s 4.3407	20 Ca Calcium 40.078 [Ar]4s ² 6.1132	21 Sc Scandium 44.955908 [Ar]3d4s 6.5615	22 Ti Titanium 47.867 [Ar]3d ² 4s 6.8281	23 V Vanadium 50.9415 [Ar]3d ³ 4s 6.7462	24 Cr Chromium 51.9961 [Ar]3d ⁵ 4s 6.7665	25 Mn Manganese 54.938044 [Ar]3d ⁵ 4s 7.4340	26 Fe Iron 55.845 [Ar]3d ⁶ 4s 7.9025	27 Co Cobalt 58.933194 [Ar]3d ⁷ 4s 7.8810	28 Ni Nickel 58.6934 [Ar]3d ⁸ 4s 7.6399	29 Cu Copper 63.546 [Ar]3d ¹⁰ 4s 7.7264	30 Zn Zinc 65.38 [Ar]3d ¹⁰ 4s 9.3942	31 Ga Gallium 69.723 [Ar]3d ¹⁰ 4s ² 4p 5.9993	32 Ge Germanium 72.630 [Ar]3d ¹⁰ 4s ² 4p ² 7.8994	33 As Arsenic 74.921595 [Ar]3d ¹⁰ 4s ² 4p ³ 9.7886	34 Se Selenium 78.971 [Ar]3d ¹⁰ 4s ² 4p ⁴ 9.7524	35 Br Bromine 79.904 [Ar]3d ¹⁰ 4s ² 4p ⁵ 11.8138	36 Kr Krypton 83.798 [Ar]3d ¹⁰ 4s ² 4p ⁶ 13.9996	37 Rb Rubidium 85.4678 [Kr]5s 4.1771	38 Sr Strontium 87.62 [Kr]5s ² 5.6949	39 Y Yttrium 88.90584 [Kr]4d5s ² 6.2173	40 Zr Zirconium 91.224 [Kr]4d ² 5s ² 6.6339	41 Nb Niobium 92.90637 [Kr]4d ⁴ 5s 6.7589	42 Mo Molybdenum 95.95 [Kr]4d ⁵ 5s 7.0924	43 Tc Technetium (98) [Kr]4d ⁵ 5s ² 7.1194	44 Ru Ruthenium 101.07 [Kr]4d ⁷ 5s 7.3605	45 Rh Rhodium 102.90550 [Kr]4d ⁸ 5s 7.4589	46 Pd Palladium 106.42 [Kr]4d ¹⁰ 8.3369	47 Ag Silver 107.8682 [Kr]4d ¹⁰ 5s 7.5762	48 Cd Cadmium 112.414 [Kr]4d ¹⁰ 5s ² 8.9938	49 In Indium 114.818 [Kr]4d ¹⁰ 5s ² 5p 5.7864	50 Sn Tin 118.710 [Kr]4d ¹⁰ 5s ² 5p ² 7.3439	51 Sb Antimony 121.760 [Kr]4d ¹⁰ 5s ² 5p ³ 8.6084	52 Te Tellurium 127.60 [Kr]4d ¹⁰ 5s ² 5p ⁴ 9.0097	53 I Iodine 126.90447 [Kr]4d ¹⁰ 5s ² 5p ⁵ 10.4513	54 Xe Xenon 131.293 [Kr]4d ¹⁰ 5s ² 5p ⁶ 12.1298	55 Cs Cesium 132.9054520 [Xe]6s 3.8939	56 Ba Barium 137.327 [Xe]6s ² 5.2117	72 Hf Hafnium 178.49 [Xe]4f ¹⁴ 5d ² 6s ² 6.8251	73 Ta Tantalum 180.94788 [Xe]4f ¹⁴ 5d ³ 6s ² 7.5496	74 W Tungsten 183.84 [Xe]4f ¹⁴ 5d ⁴ 6s ² 7.8640	75 Re Rhenium 186.207 [Xe]4f ¹⁴ 5d ⁵ 6s ² 7.8335	76 Os Osmium 190.23 [Xe]4f ¹⁴ 5d ⁶ 6s ² 8.4382	77 Ir Iridium 192.217 [Xe]4f ¹⁴ 5d ⁷ 6s ² 8.9670	78 Pt Platinum 195.084 [Xe]4f ¹⁴ 5d ⁹ 6s ¹ 8.9588	79 Au Gold 196.966569 200.592 [Xe]4f ¹⁴ 5d ¹⁰ 6s 9.2256	80 Hg Mercury 200.592 [Xe]4f ¹⁴ 5d ¹⁰ 6s ² 10.4375	81 Tl Thallium 204.38 [Hg]6p 6.1083	82 Pb Lead 207.2 [Hg]6p ² 7.4167	83 Bi Bismuth 208.98040 [Hg]6p ³ 7.2855	84 Po Polonium (209) [Hg]6p ⁴ 8.414	85 At Astatine (210) [Hg]6p ⁵ 9.31751	86 Rn Radon (222) [Hg]6p ⁶ 10.7485
87 Fr Francium (223) [Rn]7s 4.0727	88 Ra Radium (226) [Rn]7s ² 5.2784											104 Rf Rutherfordium (267) [Rn]5f ¹⁴ 6d ² 7s ² 6.01	105 Db Dubnium (268) [Rn]5f ¹⁴ 6d ³ 7s ² 6.8	106 Sg Seaborgium (271) [Rn]5f ¹⁴ 6d ⁴ 7s ² 7.8	107 Bh Bohrium (272) [Rn]5f ¹⁴ 6d ⁵ 7s ² 7.7	108 Hs Hassium (270) [Rn]5f ¹⁴ 6d ⁶ 7s ² 7.6	109 Mt Meitnerium (276)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (280)	112 Cn Copernicium (285)	113 Nh Nihonium (284)	114 Fl Flerovium (289)	115 Mc Moscovium (288)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)																										



¹ Based upon ¹²C. Reported values from CIAAW, 2015.

² Reported values from NIST, 2015.

Atomic weight exceptions:

() Mass number of longest lived isotope reported.

* The IUPAC conventional atomic weight is reported.

For more information including the standard IUPAC atomic weight expressed as an interval, visit ciaaw.org/atomic-weights.htm.

Period

- Solids
- Liquids
- Gases
- Artificially Prepared

Current as of December 2016.