

1 IA 11A 18 VIIIA 8A

1	1.00794 H Hydrogen 1312.0 2.20	1 IIA 2A														13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	4.002602 He Helium 2372.3	2					
2	6.941 Li Lithium 520.2 0.98	9.012182 Be Beryllium 899.5 1.57																				10.811 B Boron 800.6 2.04	12.0107 C Carbon 1086.5 2.55	14.0067 N Nitrogen 1402.3 3.04	15.9994 O Oxygen 1313.9 3.44	18.998403 F Fluorine 1681 3.98	20.1797 Ne Neon 2080.7
3	22.98976 Na Sodium 495.8 0.93	24.3050 Mg Magnesium 737.7 1.31	3 IIIB 3B	4 IVB 4B	5 VB 5B	6 VIB 6B	7 VIIB 7B	8 VIII 8	9 VIII 8	10 VIII 8	11 IB 1B	12 IIB 2B	26.98153 Al Aluminium 577.5 1.61	28.0855 Si Silicon 786.5 1.90	30.97696 P Phosphorus 1011.8 2.19	32.065 S Sulfur 999.6 2.58	35.453 Cl Chlorine 1251.2 3.16	39.948 Ar Argon 1520.6									
4	39.0983 K Potassium 418.8 0.82	40.078 Ca Calcium 589.8 1.00	44.95591 Sc Scandium 633.1 1.36	47.867 Ti Titanium 658.8 1.54	50.9415 V Vanadium 650.9 1.63	51.9962 Cr Chromium 652.9 1.66	54.93804 Mn Manganese 717.3 1.55	55.845 Fe Iron 762.5 1.83	58.93319 Co Cobalt 700.4 1.91	58.6934 Ni Nickel 737.1 1.88	63.546 Cu Copper 745.5 1.90	65.38 Zn Zinc 906.4 1.65	69.723 Ga Gallium 578.8 1.81	72.64 Ge Germanium 762 2.01	74.92160 As Arsenic 947 2.18	78.96 Se Selenium 941 2.55	79.904 Br Bromine 1139.9 2.96	83.798 Kr Krypton 1350.8									
5	85.4678 Rb Rubidium 403 0.82	87.62 Sr Strontium 549.5 0.95	88.90585 Y Yttrium 600 1.22	91.224 Zr Zirconium 640.1 1.33	92.90638 Nb Niobium 652.1 1.60	95.96 Mo Molybdenum 684.3 2.16	(98) Tc Technetium 702 1.90	101.07 Ru Ruthenium 710.2 2.20	102.9055 Rh Rhodium 719.7 2.28	106.42 Pd Palladium 804.4 2.20	107.8682 Ag Silver 731 1.93	112.441 Cd Cadmium 967.8 1.69	114.818 In Indium 558.3 1.78	118.710 Sn Tin 708.6 1.96	121.760 Sb Antimony 834 2.05	127.60 Te Tellurium 869.3 2.10	126.9044 I Iodine 1008.4 2.66	131.293 Xe Xenon 1170.4 2.60									
6	132.9054 Cs Caesium 375.7 0.79	137.327 Ba Barium 502.9 0.89	174.9668 Lu Lutetium 523.5 1.27	178.49 Hf Hafnium 658.5 1.30	180.9478 Ta Tantalum 761 1.50	183.84 W Tungsten 770 2.36	186.207 Re Rhenium 700 1.90	190.23 Os Osmium 840.0 2.20	192.217 Ir Iridium 880 2.20	195.084 Pt Platinum 870 2.28	196.9665 Au Gold 890.1 2.54	200.59 Hg Mercury 1007.1 2.00	204.3833 Tl Thallium 589.4 1.62	207.2 Pb Lead 715.6 2.33	208.9804 Bi Bismuth 703 2.02	(210) Po Polonium 812.1 2.00	(210) At Astatine 890 2.20	(220) Rn Radon 1037									
7	(223) Fr Francium 380.0 0.7	(226) Ra Radium 509.3 0.90	(262) Lr Lawrencium 470	(261) Rf Rutherfordium 580	(262) Db Dubnium	(266) Sg Seaborgium	(264) Bh Bohrium	(277) Hs Hassium	(268) Mt Meitnerium	(271) Ds Darmstadtium	(272) Rg Roentgenium	(285) Cn Copernicium	(284) Uut Ununtrium	(289) Fl Flerovium	(228) Uup Ununpentium	(292) Lv Livermorium	117 Uus Ununseptium	(294) Uuo Ununoctium									

138.9054 La Lanthanum 538.1 1.10	140.116 Ce Cerium 534.4 1.12	140.9076 Pr Praseodymium 527 1.13	144.242 Nd Neodymium 533.1 1.14	(145) Pm Promethium 540	150.36 Sm Samarium 544.5 1.17	151.964 Eu Europium 547.1	157.25 Gd Gadolinium 593.4 1.20	158.9253 Tb Terbium 565.8	162.500 Dy Dysprosium 573 1.22	164.9303 Ho Holmium 581 1.23	167.259 Er Erbium 589.3 1.24	168.9342 Tm Thulium 596.7 1.25	173.054 Yb Ytterbium 603.4
(227) Ac Actinium 499 1.10	232.0380 Th Thorium 587 1.30	231.0358 Pa Protactinium 508 1.50	238.0289 U Uranium 597.6 1.38	(237) Np Neptunium 604.5 1.36	(244) Pu Plutonium 584.7 1.28	(243) Am Americium 578 1.30	(247) Cm Curium 581 1.30	(247) Bk Berkelium 601 1.30	(251) Cf Californium 608 1.30	(252) Es Einsteinium 619 1.30	(257) Fm Fermium 627 1.30	(258) Md Mendelevium 635 1.30	(259) No Nobelium 642 1.30

Alkali metals Alkaline metals Other metals Transition metals Lanthanoids Actinoids Metalloids Nonmetals Halogens Noble gases