

# Los Alamos National Laboratory Chemistry Division

## Periodic Table of the Elements

1A 1 <b>H</b> hydrogen 1.008	2A 3 <b>Li</b> lithium 6.94	4 <b>Be</b> beryllium 9.012	8A 2 <b>He</b> helium 4.003												
11 <b>Na</b> sodium 22.99	12 <b>Mg</b> magnesium 24.31														
19 <b>K</b> potassium 39.10	20 <b>Ca</b> calcium 40.08	21 <b>Sc</b> scandium 44.96	22 <b>Ti</b> titanium 45.8												
37 <b>Rb</b> rubidium 85.47	38 <b>Sr</b> strontium 87.62	39 <b>Y</b> yttrium 88.91	40 <b>Zr</b> zirconium 91.22												
55 <b>Cs</b> cesium 132.9	56 <b>Ba</b> barium 137.3	*	23 <b>V</b> chromium 50.94												
87 <b>Fr</b> francium (223)	88 <b>Ra</b> radium (226)	**	24 <b>Cr</b> chromium 52.0												
			25 <b>Mn</b> manganese 54.94												
			26 <b>Fe</b> iron 55.85												
			27 <b>Co</b> cobalt 58.93												
			28 <b>Ni</b> nickel 58.69												
			29 <b>Cu</b> copper 63.55												
			30 <b>Zn</b> zinc 65.39												
			31 <b>Ga</b> gallium 69.72												
			32 <b>Ge</b> germanium 72.64												
			33 <b>As</b> arsenic 74.92												
			34 <b>Se</b> selenium 78.96												
			35 <b>Br</b> bromine 79.90												
			36 <b>Kr</b> krypton 83.79												
			37 <b>I</b> iodine 126.9												
			54 <b>Xe</b> xenon 131.3												
			55 <b>Cs</b> cesium 132.9												
			56 <b>Ba</b> barium 137.3												
			57 <b>La</b> lanthanum 138.9												
			58 <b>Ce</b> cerium 140.1												
			59 <b>Pr</b> praseodymium 140.9												
			60 <b>Nd</b> neodymium 144.2												
			61 <b>Pm</b> promethium (145)												
			62 <b>Sm</b> samarium 150.4												
			63 <b>Eu</b> europium 152.0												
			64 <b>Gd</b> gadolinium 157.2												
			65 <b>Tb</b> terbium 158.9												
			66 <b>Dy</b> dysprosium 162.5												
			67 <b>Ho</b> holmium 164.9												
			68 <b>Er</b> erbium 167.3												
			69 <b>Tm</b> thulium 168.9												
			70 <b>Yb</b> ytterbium 173.0												
			71 <b>Lu</b> lutetium 175.0												
Lanthanide Series*	57 <b>La</b> lanthanum 138.9	58 <b>Ce</b> cerium 140.1	59 <b>Pr</b> praseodymium 140.9	60 <b>Nd</b> neodymium 144.2	61 <b>Pm</b> promethium (145)	62 <b>Sm</b> samarium 150.4	63 <b>Eu</b> europium 152.0	64 <b>Gd</b> gadolinium 157.2	65 <b>Tb</b> terbium 158.9	66 <b>Dy</b> dysprosium 162.5	67 <b>Ho</b> holmium 164.9	68 <b>Er</b> erbium 167.3	69 <b>Tm</b> thulium 168.9	70 <b>Yb</b> ytterbium 173.0	71 <b>Lu</b> lutetium 175.0
Actinide Series**	89 <b>Ac</b> actinium (227)	90 <b>Th</b> thorium 232	91 <b>Pa</b> protactinium 231	92 <b>U</b> uranium 238	93 <b>Np</b> neptunium (237)	94 <b>Pu</b> plutonium (244)	95 <b>Am</b> americium (243)	96 <b>Cm</b> curium (247)	97 <b>Bk</b> berkelium (247)	98 <b>Cf</b> californium (251)	99 <b>Es</b> einsteinium (252)	100 <b>Fm</b> fermium (257)	101 <b>Md</b> mendelevium (258)	102 <b>No</b> nobelium (259)	103 <b>Lr</b> lawrencium (262)

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3A 5 <b>B</b> boron 10.81	4A 6 <b>C</b> carbon 12.01	5A 7 <b>N</b> nitrogen 14.01	6A 8 <b>O</b> oxygen 16.00	7A 9 <b>F</b> fluorine 19.00	10 <b>Ne</b> neon 20.18
13 <b>Al</b> aluminum 26.98	14 <b>Si</b> silicon 28.09	15 <b>P</b> phosphorus 30.97	16 <b>S</b> sulfur 32.06	17 <b>Cl</b> chlorine 35.45	18 <b>Ar</b> argon 39.95
31 <b>Ga</b> gallium 69.72	32 <b>Ge</b> germanium 72.64	33 <b>As</b> arsenic 74.92	34 <b>Se</b> selenium 78.96	35 <b>Br</b> bromine 79.90	36 <b>Kr</b> krypton 83.79
49 <b>Ag</b> silver 107.9	50 <b>Cd</b> cadmium 112.4	51 <b>In</b> indium 114.8	52 <b>Sn</b> tin 121.8	53 <b>Te</b> tellurium 127.6	54 <b>I</b> iodine 126.9
81 <b>Tl</b> thallium 204.4	82 <b>Pb</b> lead 207.2	83 <b>Bi</b> bismuth 209.0	84 <b>Po</b> polonium (209)	85 <b>At</b> astatine (210)	86 <b>Rn</b> radon (222)
113 <b>Uut</b> (284)	114 <b>F1</b> flerovium (288)	115 <b>Uup</b> (289)	116 <b>Lv</b> livermorium (293)	117 <b>Uus</b> (294)	118 <b>Uuo</b> (294)