

Periodic Chart of the Elements

1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
← s electrons →												←-----p electrons-----→							
1.008 ₁H																		4.002 ₂He	
6.941 ₃Li	9.012 ₄Be	←-----d electrons-----→										10.81 ₅B	12.01 ₆C	14.01 ₇N	16.00 ₈O	19.00 ₉F	20.18 ₁₀Ne		
22.99 ₁₁Na	24.31 ₁₂Mg												26.98 ₁₃Al	28.09 ₁₄Si	30.97 ₁₅P	32.07 ₁₆S	35.45 ₁₇Cl	39.95 ₁₈Ar	
39.10 ₁₉K	40.08 ₂₀Ca	44.96 ₂₁Sc	47.88 ₂₂Ti	50.94 ₂₃V	52.00 ₂₄Cr	54.94 ₂₅Mn	55.85 ₂₆Fe	58.94 ₂₇Co	58.69 ₂₈Ni	63.55 ₂₉Cu	65.39 ₃₀Zn	69.72 ₃₁Ga	72.61 ₃₂Ge	74.92 ₃₃As	78.96 ₃₄Se	79.90 ₃₅Br	83.80 ₃₆Kr		
85.47 ₃₇Rb	87.62 ₃₈Sr	88.91 ₃₉Y	91.22 ₄₀Zr	92.91 ₄₁Nb	95.94 ₄₂Mo		101.1 ₄₄Ru	102.9 ₄₅Rh	105.4 ₄₆Pd	107.9 ₄₇Ag	112.4 ₄₈Cd	114.8 ₄₉In	118.7 ₅₀Sn	121.8 ₅₁Sb	127.6 ₅₂Te	126.9 ₅₃I	131.3 ₅₄Xe		
132.9 ₅₅Cs	137.3 ₅₆Ba	* 57- 70	175.0 ₇₁Lu	178.5 ₇₂Hf	180.9 ₇₃Ta	183.9 ₇₄W	186.2 ₇₅Re	190.2 ₇₆Os	192.2 ₇₇Ir	195.1 ₇₈Pt	197.0 ₇₉Au	200.6 ₈₀Hg	204.4 ₈₁Tl	207.2 ₈₂Pb	209.0 ₈₃Bi		₈₄Po	₈₅At	₈₆Rn
₈₇Fr	₈₈Ra	**89- 102	₁₀₃Lr	₁₀₄Rf	₁₀₅Db	₁₀₆Sg	₁₀₇Bh	₁₀₈Hs	₁₀₉Mt										

←-----f electrons-----→

The Lanthanide and Actinide Series (4f and 5f)

* → 4f	138.9 ₅₇La	140.1 ₅₈Ce	140.9 ₅₉Pr	144.2 ₆₀Nd	₆₁Pm	154.4 ₆₂Sm	152.0 ₆₃Eu	157.3 ₆₄Gd	158.9 ₆₅Tb	162.5 ₆₆Dy	164.9 ₆₇Ho	167.3 ₆₈Er	168.9 ₆₉Tm	173.0 ₇₀Yb
** → 5f	₈₉Ac	232.0 ₉₀Th	₉₁Pa	238.0 ₉₂U	₉₃Np	₉₄Pu	₉₅Am	₉₆Cm	₉₇Bk	₉₈Cf	₉₉Es	₁₀₀Fm	₁₀₁Md	₁₀₂No

The molar masses given on this chart are to only 4 significant figures. For many elements one may use more significant figures. Use the tables that follow to obtain the molar mass to greater precision.

Table of the Elements alphabetically by name and by symbol

Alphabetically by name				Alphabetically by symbol			
No.	symbol	Name	molar mass	No.	symbol	Name	molar mass
89	Ac	Actinium		33	As	Arsenic	74.92159
13	Al	Aluminum	26.981539	89	Ac	Actinium	
95	Am	Americium		47	Ag	Silver	107.8682
51	Sb	Antimony	121.75	13	Al	Aluminum	26.981539
18	Ar	Argon	39.948	95	Am	Americium	
33	As	Arsenic	74.92159	18	Ar	Argon	39.948
85	At	Astatine		85	At	Astatine	
56	Ba	Barium	137.327	79	Au	Gold	196.96654
97	Bk	Berkelium		5	B	Boron	10.811
4	Be	Beryllium	9.012182	56	Ba	Barium	137.327
83	Bi	Bismuth	208.98037	4	Be	Beryllium	9.012182
5	B	Boron	10.811	83	Bi	Bismuth	208.98037
35	Br	Bromine	79.904	97	Bk	Berkelium	
48	Cd	Cadmium	112.411	35	Br	Bromine	79.904
20	Ca	Calcium	40.078	6	C	Carbon	12.011
98	Cf	Californium		20	Ca	Calcium	40.078
6	C	Carbon	12.011	48	Cd	Cadmium	112.411
55	Cs	Cesium	132.90543	58	Ce	Cerium	140.115
58	Ce	Cerium	140.115	98	Cf	Californium	
17	Cl	Chlorine	35.4527	17	Cl	Chlorine	35.4527
24	Cr	Chromium	51.9961	96	Cm	Curium	
27	Co	Cobalt	58.93320	27	Co	Cobalt	58.93320
29	Cu	Copper	63.546	24	Cr	Chromium	51.9961
96	Cm	Curium		55	Cs	Cesium	132.90543
66	Dy	Dysprosium	162.50	29	Cu	Copper	63.546
99	Es	Einsteinium		66	Dy	Dysprosium	162.50
68	Er	Erbium	167.26	68	Er	Erbium	167.26
63	Eu	Europium	151.965	99	Es	Einsteinium	
100	Fm	Fermium		63	Eu	Europium	151.965
9	F	Fluorine	18.9984032	9	F	Fluorine	18.9984032
87	Fr	Francium		26	Fe	Iron	55.847
64	Gd	Gadolinium	157.25	100	Fm	Fermium	
31	Ga	Gallium	69.723	87	Fr	Francium	
32	Ge	Germanium	72.61	31	Ga	Gallium	69.723
79	Au	Gold	196.96654	64	Gd	Gadolinium	157.25
72	Hf	Hafnium	178.49	32	Ge	Germanium	72.61
2	He	Helium	4.0020602	1	H	Hydrogen	1.00794
67	Ho	Holmium	164.93032	2	He	Helium	4.0020602
1	H	Hydrogen	1.00794	72	Hf	Hafnium	178.49
49	In	Indium	114.82	80	Hg	Mercury	200.59
53	I	Iodine	126.90447	67	Ho	Holmium	164.93032
77	Ir	Iridium	192.22	53	I	Iodine	126.90447
26	Fe	Iron	55.847	49	In	Indium	114.82
36	Kr	Krypton	83.80	77	Ir	Iridium	192.22
57	La	Lanthanum	138.9055	19	K	Potassium	39.0983
103	Lr	Lawrencium		36	Kr	Krypton	83.80
82	Pb	Lead	207.2	57	La	Lanthanum	138.9055
3	Li	Lithium	6.941	3	Li	Lithium	6.941
71	Lu	Lutetium	174.967	103	Lr	Lawrencium	
12	Mg	Magnesium	24.3050	71	Lu	Lutetium	174.967
25	Mn	Manganese	54.93805	101	Md	Mendelevium	

Alphabetically by name continued				Alphabetically by symbol continued			
101	Md	Mendelevium		12	Mg	Magnesium	24.3050
80	Hg	Mercury	200.59	25	Mn	Manganese	54.93805
42	Mo	Molybdenum	95.94	42	Mo	Molybdenum	95.94
60	Nd	Neodymium	144.24	7	N	Nitrogen	14.00674
10	Ne	Neon	20.1797	11	Na	Sodium	22.989768
93	Np	Neptunium		41	Nb	Niobium	92.90638
28	Ni	Nickel	58.69	60	Nd	Neodymium	144.24
41	Nb	Niobium	92.90638	10	Ne	Neon	20.1797
7	N	Nitrogen	14.00674	28	Ni	Nickel	58.69
102	No	Nobelium		102	No	Nobelium	
76	Os	Osmium	190.2	93	Np	Neptunium	
8	O	Oxygen	15.9994	8	O	Oxygen	15.9994
46	Pd	Palladium	105.42	76	Os	Osmium	190.2
15	P	Phosphorus	30.973762	15	P	Phosphorus	30.973762
78	Pt	Platinum	195.08	91	Pa	Protactinium	
94	Pu	Plutonium		82	Pb	Lead	207.2
84	Po	Polonium		46	Pd	Palladium	105.42
19	K	Potassium	39.0983	61	Pm	Promethium	
59	Pr	Praseodymium	140.90765	84	Po	Polonium	
91	Pa	Protactinium		59	Pr	Praseodymium	140.90765
61	Pm	Promethium		78	Pt	Platinum	195.08
88	Ra	Radium		94	Pu	Plutonium	
86	Rn	Radon		88	Ra	Radium	
75	Re	Rhenium	186.207	37	Rb	Rubidium	85.4678
45	Rh	Rhodium	102.90550	75	Re	Rhenium	186.207
37	Rb	Rubidium	85.4678	45	Rh	Rhodium	102.90550
44	Ru	Ruthenium	101.07	86	Rn	Radon	
62	Sm	Samarium	150.36	44	Ru	Ruthenium	101.07
21	Sc	Scandium	44.955910	16	S	Sulfur	32.066
34	Se	Selenium	78.96	51	Sb	Antimony	121.75
14	Si	Silicon	28.0855	21	Sc	Scandium	44.955910
47	Ag	Silver	107.8682	34	Se	Selenium	78.96
11	Na	Sodium	22.989768	14	Si	Silicon	28.0855
38	Sr	Strontium	87.62	62	Sm	Samarium	150.36
16	S	Sulfur	32.066	50	Sn	Tin	118.710
73	Ta	Tantalum	180.9479	38	Sr	Strontium	87.62
43	Tc	Technetium		73	Ta	Tantalum	180.9479
52	Te	Tellurium	127.60	65	Tb	Terbium	158.92534
65	Tb	Terbium	158.92534	43	Tc	Technetium	
81	Tl	Thallium	204.3833	52	Te	Tellurium	127.60
90	Th	Thorium	232.0381	90	Th	Thorium	232.0381
69	Tm	Thulium	168.93421	22	Ti	Titanium	47.88
50	Sn	Tin	118.710	81	Tl	Thallium	204.3833
22	Ti	Titanium	47.88	69	Tm	Thulium	168.93421
74	W	Tungsten	183.85	92	U	Uranium	238.0289
92	U	Uranium	238.0289	23	V	Vanadium	50.9415
23	V	Vanadium	50.9415	74	W	Tungsten	183.85
54	Xe	Xenon	131.29	54	Xe	Xenon	131.29
70	Yb	Ytterbium	173.04	39	Y	Yttrium	88.90585
39	Y	Yttrium	88.90585	70	Y b	Ytterbium	173.04
30	Zn	Zinc	65.39	30	Zn	Zinc	65.39
40	Zr	Zirconium	91.224	40	Zr	Zirconium	91.224