

Periodic Table of Elements

Alkali Metals 1+IA
Nonmetal

Alkaline Earth Metals 2+IIA

Noble Gases VIII A

charge of metals 3+IIIA 5-4+IVA 4- VA 3- VIA 2- VIIA 1-

charge of nonmetals

charge of polyatomic ions

of oxygens

2 suffixes:
 - **-ate:** the most number of oxygens (3 or 4)
 - **-ite:** one less oxygen than -ate

2 prefixes:
 - **per-:** one more oxygen than -ate
 - **hypo-:** the least number of oxygens

-ate: the most number of oxygens (3 or 4)
 - If it's in the *seven*, then it has O₃
 ClO₃¹⁻ NO₃¹⁻
 - If it's in the *middle*, it has *more* O₄
 PO₄³⁻ SO₄²⁻

Transition Metals

IIIB IVB VB VIB VIIB VIIIB 1+IB 2+IIB

1	2											3	4	5	6	7	8	9	10										
H Hydrogen 1.00797	He Helium 4.0026											B Boron 10.811	C Carbon 12.01115	N Nitrogen 14.0067	O Oxygen 15.9994	F Fluorine 18.9984	Ne Neon 20.183												
Li Lithium 6.939	Be Beryllium 9.0122											Al Aluminum 26.9815	Si Silicon 28.086	P Phosphorus 30.9738	S Sulfur 32.064	Cl Chlorine 35.453	Ar Argon 39.948												
Na Sodium 22.9898	Mg Magnesium 24.312											K Potassium 39.102	Ca Calcium 40.08	Sc Scandium 44.958	Ti Titanium 47.90	V Vanadium 50.942	Cr Chromium 51.996	Mn Manganese 54.938	Fe Iron 55.847	Co Cobalt 58.933	Ni Nickel 58.71	Cu Copper 63.54	Zn Zinc 65.37	Ga Gallium 69.72	Ge Germanium 72.59	As Arsenic 74.922	Se Selenium 78.96	Br Bromine 79.909	Kr Krypton 83.80
Rb Rubidium 85.47	Sr Strontium 87.62	Y Yttrium 88.905	Zr Zirconium 91.22	Nb Niobium 92.906	Mo Molybdeum 95.94	Tc Technetium [98]	Ru Ruthenium 101.07	Rh Rhodium 102.905	Pd Palladium 106.4	Ag Silver 107.87	Cd Cadmium 112.40	In Indium 114.82	Sn Tin 118.69	Sb Antimony 121.75	Te Tellurium 127.60	I Iodine 126.904	Xe Xenon 131.30												
Cs Cesium 132.905	Ba Barium 137.34											Hf Hafnium 178.49	Ta Tantalum 180.948	W Tungsten 183.85	Re Rhenium 186.2	Os Osmium 190.2	Ir Iridium 192.2	Pt Platinum 195.09	Au Gold 196.967	Hg Mercury 200.59	Tl Thallium 204.37	Pb Lead 207.19	Bi Bismuth 208.98	Po Polonium [210]	At Astatine [210]	Rn Radon [222]			
Fr Francium [223]	Ra Radium [226]											Rf Rutherford [261]	Db Dubnium [262]	Sg Seaborgium [263]	Bh Bohrium [262]	Hs Hassium [265]	Mt Meitnerium [266]	Ds [269]	Rg [272]	Uub [285]	Uut [284]	Uuq [289]	Uup [288]	Uuh [292]	Uus [292]	Uuo [292]			

Lanthanides

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
La Lanthanum 138.91	Ce Cerium 140.12	Pr Praseodymium 140.907	Nd Neodymium 144.24	Pm Promethium [147]	Sm Samarium 150.35	Eu Europium 151.96	Gd Gadolinium 157.25	Tb Terbium 158.924	Dy Dysprosium 162.50	Ho Holmium 164.930	Er Erbium 167.26	Tm Thulium 168.934	Yb Ytterbium 173.04	Lu Lutetium 174.97

Actinides

89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
Ac Actinium [227]	Th Thorium 232.038	Pa Protactinium [231]	U Uranium 238.03	Np Neptunium [237]	Pu Plutonium [242]	Am Americium [243]	Cm Curium [247]	Bk Berkelium [247]	Cf Californium [249]	Es Einsteinium [254]	Fm Fermium [253]	Md Mendelevium [256]	No Nobelium [254]	Lr Lawrencium [257]