

PERIODIC TABLE OF THE ELEMENTS

This Periodic Table provides detailed information for each element, including atomic number, atomic weight, electrons configuration, oxidation states, element name, and various radii.

Legend:

- acid-alkali properties of the higher oxide:**
 - strongly alkaline (blue)
 - slightly alkaline (light blue)
 - strongly acidic (red)
 - slightly acidic (pink)
 - equal (grey)
- chemical symbol of the element:**
 - solid (grey)
 - liquid (green)
 - gaseous (yellow)
 - elements without stable isotopes (orange)
- periodic group symbols:**
 - alkal metals (purple)
 - alkaline earth metals (pink)
 - transition metals (blue)
 - metals (teal)
 - halogens (orange)
 - noble gases (yellow)
 - nonmetals (green)

Element Data:

Element	Atomic Number	Atomic Weight	Electrons Configuration	Oxidation States	Element Name
H	1	1.0079	[He]1s ¹	-1; 1	hydrogen
Li	3	6.941	[He]2s ¹	1	lithium
Be	4	9.01218	[He]2s ²	2	beryllium
Na	11	22.9898	[Ne]3s ¹	1	sodium
Mg	12	24.305	[Ne]3s ²	1; 2	magnesium
K	19	39.0983	[Ar]4s ¹	1	potassium
Ca	20	40.08	[Ar]4s ²	1; 2	calcium
Sc	21	49.5591	[Ar]3d ¹ 4s ²	1; 3	scandium
Ti	22	47.87	[Ar]3d ² 4s ²	2; 3	titanium
V	23	50.9415	[Ar]3d ³ 4s ²	2; 3; 4	vanadium
Cr	24	51.996	[Ar]3d ⁴ 4s ²	2; 3; 4; 5	chromium
Mn	25	54.93805	[Ar]3d ⁵ 4s ²	2; 3; 4; 5; 6	manganese
Fe	26	55.845	[Ar]3d ⁶ 4s ²	2; 3; 4; 5; 6	iron
Co	27	58.93320	[Ar]3d ⁷ 4s ²	2; 3; 4; 5; 6	cobalt
Ni	28	58.693	[Ar]3d ⁸ 4s ²	2; 3; 4; 5; 6	nickel
Cu	29	63.546	[Ar]3d ⁹ 4s ²	2; 3; 4; 5; 6	copper
Zn	30	65.41	[Ar]3d ¹⁰ 4s ²	2; 3; 4; 5; 6	zink
Al	31	69.72	[Ar]3d ¹⁰ 4s ⁴ p ¹	2; 3	aluminum
Si	32	72.64	[Ar]3d ¹⁰ 4s ⁴ p ²	2; 3	silicon
P	33	74.9216	[Ar]3d ¹⁰ 4s ⁴ p ³	2; 3	phosphorus
S	34	78.96	[Ar]3d ¹⁰ 4s ⁴ p ⁴	2; 3	sulfur
Ge	35	79.904	[Ar]3d ¹⁰ 4s ⁴ p ⁵	2; 3	germanium
As	36	83.80	[Ar]3d ¹⁰ 4s ⁴ p ⁶	2; 3	arsenic
Se	37	85.4678	[Kr]5s ¹	1	rubidium
Sr	38	87.62	[Kr]5s ²	1; 2	strontium
Y	39	88.9059	[Kr]4d ¹ 5s ²	3	yttrium
Zr	40	91.224	[Kr]4d ² 5s ²	3; 4	zirconium
Nb	41	92.9064	[Kr]4d ³ 5s ²	3; 4; 5	niobium
Tc	42	95.94	[Kr]4d ⁴ 5s ²	3; 4; 5; 6	technetium
Ru	43	[98]	[Kr]4d ⁵ 5s ²	3; 4; 5; 6	ruthenium
Rh	44	101.07	[Kr]4d ⁶ 5s ²	3; 4; 5; 6	rhodium
Pd	45	102.9055	[Kr]4d ⁷ 5s ²	3; 4; 5; 6	palladium
Ag	46	106.42	[Kr]4d ⁸ 5s ²	3; 4; 5; 6	silver
Cd	47	107.8682	[Kr]4d ⁹ 5s ²	3; 4; 5; 6	cadmium
In	48	112.41	[Kr]4d ¹⁰ 5s ²	3; 4; 5; 6	indium
Sn	49	114.818	[Kr]4d ¹⁰ 5s ³	2; 3	tin
Sb	50	118.710	[Kr]4d ¹⁰ 5s ⁵	2; 4	antimony
Te	51	121.76	[Kr]4d ¹⁰ 5s ⁵	2; 3; 5	tellurium
I	52	127.6	[Kr]4d ¹⁰ 5s ⁵	2; 3; 5; 7	iodine
Fr	53	131.29	[Kr]4d ¹⁰ 5s ⁵	2; 4; 6; 8	xenon
Ra	54	186.054	[Rn]7s ¹	1	caesium
Ac	55	137.33	[Rn]7s ²	1; 2	barium
Lanthanum	56	178.906	[Rn]4f ¹ 5d ⁶ s ²	3	lanthanum
Hf	57	180.9479	[Rn]4f ¹ 5d ⁶ s ²	3; 4	hafnium
Ta	58	183.84	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5	tantalum
W	59	186.207	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5; 6	tungsten
Os	60	190.2	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5; 6	osmium
Ir	61	192.2	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5; 6	iridium
Pt	62	195.078	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5; 6	platinum
Au	63	196.967	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5; 6	gold
Hg	64	200.559	[Rn]4f ¹ 5d ⁶ s ²	3; 4; 5; 6	mercury
Ti	65	204.383	[Rn]4f ¹ 5d ⁶ s ⁶ p ¹	1; 2	thallium
Rb	66	207.2	[Rn]4f ¹ 5d ⁶ s ⁶ p ²	2; 4	lead
Bi	67	208.980	[Rn]4f ¹ 5d ⁶ s ⁶ p ³	2; 4; 6	bismuth
Po	68	208.982	[Rn]4f ¹ 5d ⁶ s ⁶ p ⁴	2; 4; 6; 8	polonium
At	69	222.018	[Rn]4f ¹ 5d ⁶ s ⁶ p ⁵	1; 5; 7	astatine
Rn	70	223.0197	[Rn]7s ²	1; 2	radon
Fr	71	226.0254	[Rn]7s ¹	1	francium
Ra	72	227.0278	[Rn]7s ²	2	radium
Ac	73	227.0278	[Rn]5f ¹ 6d ⁷ s ²	3	actinium
Rf	74	227.0278	[Rn]5f ¹ 6d ⁷ s ²	4	rutherfordium
Dubnium	75	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	dubnium
Sg	76	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	seaborgium
Bh	77	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	bohrium
Hs	78	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	hassium
Mt	79	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	meitnerium
Ds	80	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	darmstadtium
Rg	81	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	roentgenium
Cn	82	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	copernicum
Uut	83	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	ununtrium
Uup	84	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	ununpentium
Uuh	85	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	ununhexium
Uus	86	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	ununseptimum
Uuo	87	227.0278	[Rn]5f ¹ 6d ⁷ s ²	5	ununoctium

s - elements **d - elements** **f - elements**

Ce	58	140.12	[Xe]4f ¹ 5d ⁶ s ²	3; 4
Pr	59	140.9077	[Xe]4f ¹ 5d ⁶ s ²	2; 3; 4
Nd	60	144.24	[Xe]4f ¹ 5d ⁶ s ²	2; 3; 4
Pm	61	[145]	[Xe]4f ¹ 5d ⁶ s ²	3
Sm	62	150.36	[Xe]4f ¹ 5d ⁶ s ²	2; 3; 4
Eu	63	151.96	[Xe]4f ¹ 5d ⁶ s ²	2; 3
Gd	64	157.25	[Xe]4f ¹ 5d ⁶ s ²	1; 2; 3
Tb	65	158.9253	[Xe]4f ¹ 5d ⁶ s ²	1; 2; 3
Dy	66	162.50	[Xe]4f ¹ 5d ⁶ s ²	2; 3; 4
Ho	67	164.9303	[Xe]4f ¹ 5d ⁶ s ²	1; 3
Er	68	167.26	[Xe]4f ¹ 5d ⁶ s ²	1; 3
Tm	69	168.9342	[Xe]4f ¹ 5d ⁶ s ²	1; 3
Yb	70	173.04	[Xe]4f ¹ 5d ⁶ s ²	2; 3
Lu	71	174.967	[Xe]4f ¹ 5d ⁶ s ²	3
Th	90	232.0381	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4
Pa	91	231.0359	[Rn]5f ¹ 6d ⁷ s ²	3; 4; 5
U	92	238.0289	[Rn]5f ¹ 6d ⁷ s ²	3; 4; 5; 6
Np	93	[237]	[Rn]5f ¹ 6d ⁷ s ²	3; 4; 5; 6; 7
Pu	94	[241]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Am	95	[243]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Cm	96	[247]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Bk	97	[247]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Cf	98	[251]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Es	99	[252]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Fm	100	[257]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4; 5; 6; 7
Md	101	[258]	[Rn]5f ¹ 6d ⁷ s ²	1; 2; 3
No	102	[259]	[Rn]5f ¹ 6d ⁷ s ²	2; 3; 4
Lr	103	[262]	[Rn]5f ¹ 6d ⁷ s ²	3