

# Periodic Table With Charges

PERIOD	Electron Shells																		18	VIIIA																																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																																			
Energy Level	K L M N O P Q R																																																				
Shell Name	K L M N O P Q R																																																				
Max Electrons	2 8 18 32 32 18 8 2																																																				
s	2 2 2 2 2 2 2 2																																																				
p	6 6 6 6 6 6 6 6																																																				
d	10 10 10 10																																																				
f																																																					
1																		1	IA	2	VIIIA																																
1	1																	2	He	0																																	
2	3	4															9	F	10	Ne	0																																
2	1	2															13	B	14	C	15	N	16	O	17	Ar	18	0																									
3	11	12															19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr	0
4	19	20	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	0																		
5	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	0																		
6	55	56	57-71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	0																																		
7	87	88	89-103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	0																																		

Group (IUPAC) → 2	IIA ← Group (CAS)
Atomic Number	Valence Charge
4	+3
Be	Symbol
Beryllium	Name
9.012	Atomic Mass

Lanthanoids

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Lanthanum	Cerium	Praseodymium	Neodymium	Promethium	Samarium	Europium	Gadolinium	Terbium	Dysprosium	Holmium	Erbium	Thulium	Ytterbium	Lawrencium
138.905	140.116	138.905	144.243	144.913	150.36	151.964	157.25	158.925	162.500	164.930	167.259	168.934	173.055	174.967

Actinoids

89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
Actinium	Thorium	Protactinium	Uranium	Neptunium	Plutonium	Americium	Curium	Berkelium	Californium	Einsteinium	Fermium	Mendelevium	Nobelium	Lawrencium
227.028	232.038	231.036	238.029	237.048	239.048	243.061	247.070	247.070	251.080	[254]	257.095	258.1	259.101	[262]

Alkali Metal	Alkaline Earth	Transition Metal	Basic Metal	Metalloid	Nonmetal	Halogen	Noble Gas	Lanthanide	Actinide
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