

1 H ⁺ hydrogen	2 Li ⁺ lithium	3 Na ⁺ sodium	4 Be ²⁺ beryllium	11 Mg ²⁺ magnesium
19 K ⁺ potassium	20 Ca ²⁺ calcium	37 Rb ⁺ rubidium	38 Sr ²⁺ strontium	55 Cs ⁺ cesium
87 Fr ⁺ francium	88 Ra ²⁺ radium	89 Ac ³⁺ actinium		

TABLE OF POLYATOMIC IONS			
acetate	CH ₃ COO ⁻	dihydrogen phosphate	H ₂ PO ₄ ⁻
arsenate	AsO ₄ ³⁻	hydrogen carbonate	HCO ₃ ⁻
arsenite	AsO ₃ ³⁻	hydrogen oxalate	HC ₂ O ₄ ⁻
benzoate	C ₆ H ₅ COO ⁻	hydrogen sulfate	HSO ₄ ⁻
borate	BO ₃ ³⁻	hydrogen sulfide	HS ⁻
bromate	BrO ₃ ⁻	hydrogen sulfite	HSO ₃ ⁻
carbonate	CO ₃ ²⁻	hydroxide	OH ⁻
chlorate	ClO ₃ ⁻	hypochlorite	ClO ⁻
chloride	Cl ⁻	iodate	IO ₃ ⁻
chlorite	ClO ₂ ⁻	monohydrogen phosphate	HPO ₄ ²⁻
chromate	CrO ₄ ²⁻	nitrate	NO ₃ ⁻
cyanate	CNO ⁻	nitrite	NO ₂ ⁻
cyanide	CN ⁻	orthosilicate	SiO ₄ ⁴⁻
dichromate	Cr ₂ O ₇ ²⁻		
oxalate	C ₂ O ₄ ²⁻	perchlorate	ClO ₄ ⁻
periodate	IO ₄ ⁻	permanganate	MnO ₄ ⁻
peroxide	O ₂ ²⁻	phosphate	PO ₄ ³⁻
pyrophosphate	P ₂ O ₇ ⁴⁻	sulfate	SO ₄ ²⁻
sulfate	SO ₄ ²⁻	sulfite	SO ₃ ²⁻
thiocyanate	SCN ⁻	thiosulfate	S ₂ O ₃ ²⁻
thiosulfate	S ₂ O ₃ ²⁻		
POSITIVE POLYATOMIC IONS			
ammonium	NH ₄ ⁺	hydronium	H ₃ O ⁺

PERIODIC TABLE OF IONS

KEY					
atomic number →	26	Fe ³⁺	← ion charge		
		iron (III)	← ion name (IUPAC)		
symbol →		Fe ²⁺			
		iron (II)			
5	6	7	8	9	10
B boron	C carbon	N ³⁻ nitride	O ²⁻ oxide	F ⁻ fluoride	Ne neon
13	14	15	16	17	18
Al ³⁺ aluminum	Si silicon	P ³⁻ phosphide	S ²⁻ sulfide	Cl ⁻ chloride	Ar argon
19	20	21	22	23	24
K ⁺ potassium	Ca ²⁺ calcium	Sc ³⁺ scandium	Ti ⁴⁺ titanium (IV)	V ³⁺ vanadium (III)	Cr ³⁺ chromium (III)
37	38	39	40	41	42
Rb ⁺ rubidium	Sr ²⁺ strontium	Y ³⁺ yttrium	Zr ⁴⁺ zirconium	Nb ⁵⁺ niobium (V)	Mo ⁶⁺ molybdenum
55	56	57	72	73	74
Cs ⁺ cesium	Ba ²⁺ barium	La ³⁺ lanthanum	Hf ⁴⁺ hafnium	Ta ⁵⁺ tantalum	W ⁶⁺ tungsten
87	88	89			
Fr ⁺ francium	Ra ²⁺ radium	Ac ³⁺ actinium			
25	26	27	28	29	30
Mn ²⁺ manganese (II)	Fe ³⁺ iron (III)	Co ²⁺ cobalt (II)	Ni ²⁺ nickel (II)	Cu ²⁺ copper (II)	Zn ²⁺ zinc
43	44	45	46	47	48
Tc ⁷⁺ technetium	Ru ³⁺ ruthenium (III)	Rh ³⁺ rhodium	Pd ²⁺ palladium (II)	Ag ⁺ silver	Cd ²⁺ cadmium
75	76	77	78	79	80
Re ⁷⁺ rhenium	Os ⁴⁺ osmium	Ir ⁴⁺ iridium	Pt ⁴⁺ platinum (IV)	Au ³⁺ gold (III)	Hg ²⁺ mercury (II)
101	102	103	104	105	106
Md ²⁺ mendelevium (II)	No ²⁺ nobelium (II)	Lr ³⁺ lawrencium			

58	59	60	61	62	63	64	65	66	67	68	69	70	71
Ce ³⁺ cerium	Pr ³⁺ praseodymium	Nd ³⁺ neodymium	Pm ³⁺ promethium	Sm ³⁺ samarium (III)	Eu ³⁺ europium (III)	Gd ³⁺ gadolinium	Tb ³⁺ terbium	Dy ³⁺ dysprosium	Ho ³⁺ holmium	Er ³⁺ erbium	Tm ³⁺ thulium	Yb ³⁺ ytterbium (III)	Lu ³⁺ lutetium
90	91	92	93	94	95	96	97	98	99	100	101	102	103
Th ⁴⁺ thorium	Pa ⁵⁺ protactinium (V)	U ⁶⁺ uranium (VI)	Np ⁵⁺ neptunium	Pu ⁴⁺ plutonium (IV)	Am ³⁺ americium (III)	Cm ³⁺ curium	Bk ³⁺ berkelium (III)	Cf ³⁺ californium	Es ³⁺ einsteinium	Fm ³⁺ fermium	Md ²⁺ mendelevium (II)	No ²⁺ nobelium (II)	Lr ³⁺ lawrencium