

Ion Charges

Ions Formed based on Periodic Group

Group	Val e ⁻	Charge	Group	Val e ⁻	Charge	Group	Val e ⁻	Charge
1A (1)	1	1+	3A (13)	3	3+	6A (16)	6	2-
2A (2)	2	2+	4A (14)	4	4+ / 4-	7A (17)	7	1-
1B – 10B (3 – 12)	2 (Varies)	Varies	5A (15)	5	3-	8A (18)	8	No Charge

Roman Numerals

1	2	3	4	5	6	7	8
I	II	III	IV	V	VI	VII	VIII

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Ionic Nomenclature

Naming Ionic Compounds

Naming Format

Representative Metals
(1A, 2A, Al, Si)

Transition Metals
(1B – 10B, 3A [In, Tl] 4A [Pb, Sn])

Metal + Non-Metal -ide Metal (Charge) Non-Metal -ide

Roman Numerals

1	2	3	4	5	6	7	8
I	II	III	IV	V	VI	VII	VIII

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Anion Non-Metal Endings

-ide Non-Metal Endings

Atomic Number	Element Name	Ion Name	Atomic Number	Element Name	Ion Name
6	Carbon	Carbide	16	Sulfur	Sulfide
7	Nitrogen	Nitride	17	Chlorine	Chloride
8	Oxygen	Oxide	34	Selenium	Selenide
9	Fluorine	Fluoride	35	Bromine	Bromide
15	Phosphorous	Phosphide	53	Iodine	Iodide

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Elements with Different Names/Symbols

The following element names don't match symbol

#	Symbol	Element	#	Symbol	Element
11	Na	Sodium	51	Sb	Antimony
19	K	Potassium	74	W	Tungsten
26	Fe	Iron	79	Au	Gold
29	Cu	Copper	80	Hg	Mercury
47	Ag	Silver	82	Pb	Lead
50	Sn	Tin	85	At	Astatine

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