

Polyatomic Ion Chart

The following is a list of common polyatomic ions

Polyatomic Ion	Ion Formula	Polyatomic Ion	Ion Formula	Polyatomic Ion	Ion Formula
Ammonium	NH_4^{1+}	Hydronium	H_3O^{1+}	Carbonate	CO_3^{2-}
Nitrate	NO_3^{1-}	Cyanide	CN^{1-}	Sulfate	SO_4^{2-}
Fluorate	FO_3^{1-}	Hydroxide	OH^{1-}	Chromate	CrO_4^{2-}
Chlorate	ClO_3^{1-}	Acetate	$\text{C}_2\text{H}_3\text{O}_2^{1-}$	Dichromate	$\text{Cr}_2\text{O}_7^{2-}$
Bromate	BrO_3^{1-}	Permanganate	MnO_4^{1-}	Oxalate	$\text{C}_2\text{O}_4^{2-}$
Iodate	IO_3^{1-}	Bicarbonate	HCO_3^{1-}	Phosphate	PO_4^{3-}

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Polyatomic Ion Conjugations

Some polyatomic ions can be changed by change number of oxygens

-ate (Base)	Ion Formula	-ite (-1 oxy)	Ion Formula	per__ite (+1 oxy)	Ion Formula
Chlorate	ClO_3^{1-}	Chlorite	ClO_2^{1-}	Perchlorate	ClO_4^{1-}
Bromate	BrO_3^{1-}	Bromite	BrO_2^{1-}	Perbromate	BrO_4^{1-}
Nitrate	NO_3^{1-}	Nitrite	NO_2^{1-}		
Carbonate	CO_3^{2-}	Carbonite	CO_2^{2-}		
Sulfate	SO_4^{2-}	Sulfite	SO_3^{2-}		
Phosphate	PO_4^{3-}	Phosphite	PO_3^{3-}		

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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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