

Important elements/ions to know for CHM 4, 1A, and 1B

Element	Symbol
aluminum	Al
antimony	Sb
argon	Ar
arsenic	As
barium	Ba
beryllium	Be
bismuth	Bi
boron	B
bromine	Br
cadmium	Cd
calcium	Ca
carbon	C
cesium	Cs
chlorine	Cl
chromium	Cr
cobalt	Co
copper	Cu
fluorine	F
francium	Fr
gold	Au
helium	He
hydrogen	H
iodine	I
iron	Fe

Element	Symbol
krypton	Kr
lead	Pb
lithium	Li
magnesium	Mg
manganese	Mn
mercury	Hg
neon	Ne
nickel	Ni
nitrogen	N
oxygen	O
phosphorus	P
potassium	K
radium	Ra
rubidium	Rb
selenium	Se
silicon	Si
silver	Ag
sodium	Na
strontium	Sr
sulfur	S
tin	Sn
titanium	Ti
xenon	Xe
zinc	Zn

Monatomic ion	Symbol
bromide ion	Br ⁻
chloride ion	Cl ⁻
fluoride ion	F ⁻
iodide ion	I ⁻
nitride ion	N ³⁻
oxide ion	O ²⁻
sulfide ion	S ²⁻

Ions made by adding "H⁺"

Ions made by adding "H ⁺ "	Symbol
hydrogen carbonate ion (bicarbonate)	HCO ₃ ⁻
hydrogen oxalate ion (bioxalate)	HC ₂ O ₄ ⁻
hydrogen phosphate ion	HPO ₄ ²⁻
dihydrogen phosphate ion	H ₂ PO ₄ ⁻
hydrogen sulfate ion (bisulfate)	HSO ₄ ⁻
hydrogen sulfide ion (bisulfide)	HS ⁻
hydrogen sulfite ion (bisulfite)	HSO ₃ ⁻

Polyatomic ion

Polyatomic ion	Symbol
acetate ion	C ₂ H ₃ O ₂ ⁻
ammonium ion	NH ₄ ⁺
arsenate ion	AsO ₄ ³⁻
borate ion	BO ₃ ³⁻
bromate ion	BrO ₃ ⁻
bromite ion	BrO ₂ ⁻
carbonate ion	CO ₃ ²⁻
chlorate ion	ClO ₃ ⁻
chlorite ion	ClO ₂ ⁻
chromate ion	CrO ₄ ²⁻
cyanide ion	CN ⁻
dichromate ion	Cr ₂ O ₇ ²⁻
hydroxide ion	OH ⁻
hypobromite ion	BrO ⁻
hypochlorite ion	ClO ⁻

Polyatomic ion

Polyatomic ion	Symbol
hypoiodite ion	IO ⁻
iodate ion	IO ₃ ⁻
iodite ion	IO ₂ ⁻
nitrate ion	NO ₃ ⁻
nitrite ion	NO ₂ ⁻
oxalate ion	C ₂ O ₄ ²⁻
perbromate ion	BrO ₄ ⁻
perchlorate ion	ClO ₄ ⁻
periodate ion	IO ₄ ⁻
permanganate ion	MnO ₄ ⁻
phosphate ion	PO ₄ ³⁻
phosphite ion	PO ₃ ³⁻
sulfate ion	SO ₄ ²⁻
sulfite ion	SO ₃ ²⁻
thiosulfate ion	S ₂ O ₃ ²⁻