

Polyatomic Compounds

July 24, 2015 11:54 AM

Polyatomic ions form compounds like other ions

ex Ammonium $(\text{NH}_4)^{+1}$

Dichromate $(\text{Cr}_2\text{O}_7)^{-2}$

Hydrogen sulfite $(\text{HSO}_3)^{-1}$

Naming

1 positive polyatomic ions are written first, like metals

2 Negative polyatomic ions are written second, and the name is **NOT** **changed**

Ex. #1

(a) Calcium + nitrate \rightarrow calcium nitrate

(b) Hydrogen + dichromate \rightarrow hydrogen dichromate

(c) $\text{K}_2\text{SO}_4 \rightarrow$ Potassium sulfate

(d) $\text{KMnO}_4 \rightarrow$ Potassium permanganate

Writing Formulas

- 1 Write the metal and non-metal elements in their ion form (polyatomic is always written in brackets)
- 2 Re-write the elements without ion charges, criss-cross the numbers
 - ↳ common factor → **REDUCE!!**
 - ↳ if there is only 1 of the poly-atomic group, omit the brackets

Ex. #2



