

How to Name Chemical Compounds

is it ionic (usually),
or does it contain a polyatomic ion (as provided by H⁺)?

Ionic compound

[cation's name] [anion's name]

main- element	- take its element name! - ex. Al^{3+}: aluminum - if transition metal*, include charge in Roman numeral - ex. Cr^{2+}: copper (II)	- get element's name, chop end, add "-ide" - ex. F^{-}: fluorine → fluoride ✓
poly- element	- just use its name! - ex. NH_4^{+}: ammonium	- just use its name! - ex. CO_3^{2-}: carbonate

* exceptions (no Roman numerals):

silver ion: always Ag^{+}

zinc ion: always Zn^{2+}

cadmium ion: always Cd^{2+}

Molecular compound

is it HCO_3^{-} ?

Acid! ✓
then use nomenclature

[#]-[1st element name] [#]-[2nd element root]-"ide"

↑ skip if "mono-" ↑ skip if 1st element is H

Numerical prefixes

- 1: mono-
- 2: di-
- 3: tri-
- 4: tetra-
- 5: penta-
- 6: hexa-
- 7: hepta-
- 8: octa-
- 9: nona-
- 10: deca-

for
first element: never
ex. N_2O_5 → dinitrogen
pentoxide ✓

Acids

Ignore all H^{+} , and look at the name of the remaining anion.

Anion	X-ide	X-ate	X-ite
Acid	hydro-X-ic acid	X-ic acid	X-ous acid
	ex. Br^{-} bromide HBr hydrobromic acid	ex. $\text{C}_2\text{H}_3\text{O}_2^{-}$ acetate $\text{HC}_2\text{H}_3\text{O}_2$ acetic acid	ex. IO_3^{-} iodate HIO_3 iodic acid
	ex. CN^{-} cyanide HCN hydrocyanic acid	ex. PO_4^{3-} phosphate H_3PO_4 phosphoric acid	ex. SO_3^{2-} sulfite H_2SO_3 sulfurous acid

Answers To Ionic Compound Study Guide

David Baud



Answers To Ionic Compound Study Guide:

Whispering the Secrets of Language: An Emotional Journey through **Answers To Ionic Compound Study Guide**

In a digitally-driven world wherever displays reign great and quick interaction drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words usually go unheard. Yet, set within the pages of **Answers To Ionic Compound Study Guide** a captivating fictional prize pulsating with natural thoughts, lies a fantastic quest waiting to be undertaken. Published by a talented wordsmith, this marvelous opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very cloth of each word. Within the psychological depths with this touching evaluation, we can embark upon a genuine exploration of the book's primary subjects, dissect their interesting publishing style, and yield to the powerful resonance it evokes heavy within the recesses of readers' hearts.

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