

11. KCH3CO2, CH3COO

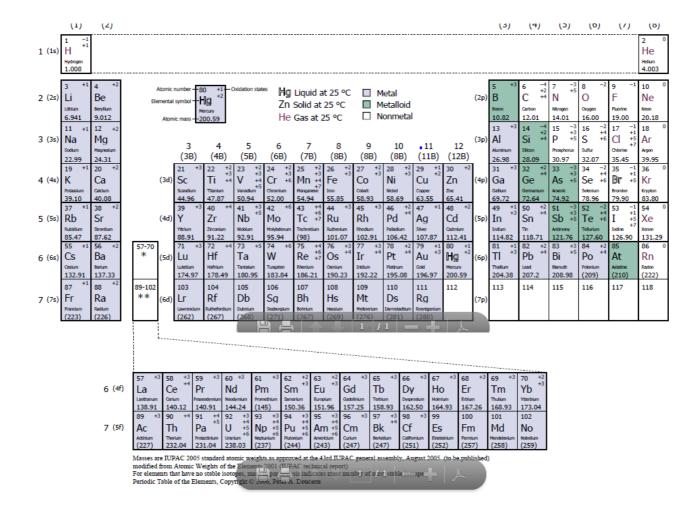
Potassium acetate

12. Mg3 (PO4)2 magnesium phosphate

13. Al(ClO3)3 Aluminum chlorate

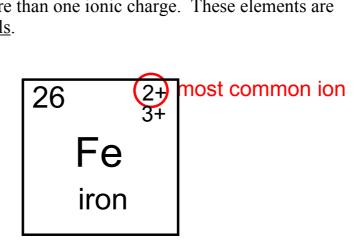
(4. Ca8O41

Calcium Sulfate



Multivalent Metals and Their Ions

Transition elements are located in the middle of the periodic table. Many of them have more than one ionic charge. These elements are called <u>multivalent metals</u>.



When naming the ions of multivalent metals, you must include a <u>roman numeral</u>. The roman numeral is equal to the charge on the ion.

I II III IV V VI VII VIII IX X

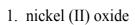
$$Fe^{2+} = iron (II) ion$$

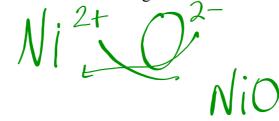
$$Pb^{4+} = lead (IV) ion$$

$$Cr^{3+} = chromium$$
 (III) ion

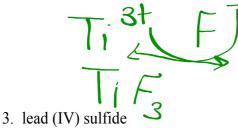
Ionic Compounds Involving Multivalent Metals

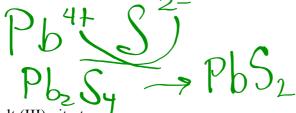
Write chemical formulas for the following:





2. titanium (III) fluoride





4. cobalt (III) nitrate

5. manganese (III) sulfate

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