

Naming Ionic Compounds 2

Part 1

Write the formula for each of the following ionic compounds.

1. copper(II) acetate $\text{Cu}(\text{CH}_3\text{COO})_2$
2. sodium hydroxide NaOH
3. lithium oxide Li_2O
4. cobalt(III) carbonate $\text{Co}_2(\text{CO}_3)_3$
5. aluminum sulfide Al_2S_3
6. ammonium cyanide NH_4CN
7. iron(III) phosphide Fe_3P_2
8. vanadium(V) phosphate $\text{V}_5(\text{PO}_4)_5$
9. sodium permanganate NaMnO_4
10. manganese(III) fluoride MnF_3
11. beryllium nitrate $\text{Be}(\text{NO}_3)_2$
12. nickel(III) sulfite $\text{Ni}_2(\text{SO}_3)_3$
13. potassium oxide K_2O
14. silver bromide AgBr
15. zinc phosphate $\text{Zn}_3(\text{PO}_4)_2$
16. copper(II) bicarbonate $\text{Cu}(\text{HCO}_3)_2$
17. nickel(II) selenide NiSe
18. manganese(IV) carbonate $\text{Mn}(\text{CO}_3)_2$
19. lead(IV) nitride Pb_3N_4
20. tin(II) hydroxide $\text{Sn}(\text{OH})_2$

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Part 2

Name each of the following ionic compounds. (Hint: 30 – 40 require roman numerals)

21. Li_3As lithium arsenide
22. $CaBr_2$ calcium bromide
23. $(NH_4)_2SO_4$ ammonium sulfate
24. $Al_2(CO_3)_3$ aluminum carbonate
25. $AgNO_3$ silver nitrate
26. $Mg(CH_3COO)_2$ magnesium acetate
27. Ag_2SO_4 silver sulfate
28. Zn_3N_2 zinc nitride
29. $NaNO_3$ sodium nitrate
30. $Cr(SO_4)_3$ chromium (VI) sulfate
31. CuO copper (II) oxide
32. $Pt_3(PO_4)_4$ platinum (IV) phosphate
33. $Ni(CN)_3$ nickel (III) cyanide
34. $V_3(PO_4)_4$ vanadium (IV) phosphate
35. Co_2S_3 cobalt (III) sulfide
36. $FeSO_3$ iron (II) sulfite
37. $Cu(NO_2)_2$ copper (II) nitrite
38. $Ni(OH)_2$ nickel (II) hydroxide
39. $Mn(NO_3)_7$ manganese (VII) nitrate
40. $Ga_2(SO_4)_3$ gallium (III) sulfate