

Naming Ionic Compounds

Give the name _____ of the following ionic compounds:

Name

- 1) Na_2CO_3 sodium carbonate
- 2) NaOH sodium hydroxide
- 3) MgBr_2 magnesium bromide
- 4) KCl potassium chloride
- 5) FeCl_2 iron(II) chloride
- 6) FeCl_3 iron(III) chloride
- 7) Zn(OH)_2 zinc hydroxide
- 8) Be_2SO_4 beryllium sulfate
- 9) CrF_2 chromium(II) fluoride
- 10) Al_2S_3 aluminium sulfide
- 11) PbO lead(II) oxide
- 12) Li_3PO_4 lithium phosphate
- 13) TiI_4 titanium(IV) iodide
- 14) Co_3N_2 cobalt(II) nitride
- 15) Mg_3P_2 magnesium phosphide
- 16) $\text{Ga(NO}_2)_3$ gallium nitrite
- 17) Ag_2SO_3 silver sulfite
- 18) NH_4OH ammonium hydroxide
- 19) Al(CN)_3 aluminium cyanide
- 20) $\text{Be(CH}_3\text{COO)}_2$ beryllium acetate

For the following compounds, give the formulas and the molar masses:

- | | Formula | |
|----------------------------|---|------------------------------|
| 22) sodium phosphide | $\text{Na}^{1+} \text{P}^{3-}$ | Na_3P |
| 23) magnesium nitrate | $\text{Mg}^{2+} \text{NO}_3^{1-}$ | $\text{Mg}(\text{NO}_3)_2$ |
| 24) lead (II) sulfite | $\text{Pb}^{2+} \text{SO}_3^{2-}$ | PbSO_3 |
| 25) calcium phosphate | $\text{Ca}^{2+} \text{PO}_4^{3-}$ | $\text{Ca}_3(\text{PO}_4)_2$ |
| 26) ammonium sulfate | $\text{NH}_4^+ \text{SO}_4^{2-}$ | $(\text{NH}_4)_2\text{SO}_4$ |
| 27) silver cyanide | $\text{Ag}^{1+} \text{CN}^{1-}$ | AgCN |
| 28) aluminum sulfide | $\text{Al}^{3+} \text{S}^{2-}$ | Al_2S_3 |
| 29) beryllium chloride | $\text{Be}^{2+} \text{Cl}^{1-}$ | BeCl_2 |
| 30) copper (I) arsenide | $\text{Cu}^{1+} \text{As}^{3-}$ | Cu_3As |
| 31) iron (III) oxide | $\text{Fe}^{3+} \text{O}^{2-}$ | Fe_2O_3 |
| 32) gallium nitride | $\text{Ga}^{3+} \text{N}^{3-}$ | GaN |
| 33) iron (II) bromide | $\text{Fe}^{2+} \text{Br}^{1-}$ | FeBr_2 |
| 34) vanadium (V) phosphate | $\text{V}^{5+} \text{PO}_4^{3-}$ | $\text{V}_3(\text{PO}_4)_5$ |
| 35) calcium oxide | $\text{Ca}^{2+} \text{O}^{2-}$ | CaO |
| 36) magnesium acetate | $\text{Mg}^{2+} \text{CH}_3\text{COO}^{1-}$ | MgCH_3COO |
| 37) aluminum sulfate | $\text{Al}^{3+} \text{SO}_4^{2-}$ | $\text{Al}_2(\text{SO}_4)_3$ |
| 38) copper (I) carbonate | $\text{Cu}^{1+} \text{CO}_3^{2-}$ | Cu_2CO_3 |
| 39) barium oxide | $\text{Ba}^{2+} \text{O}^{2-}$ | BaO |
| 40) ammonium sulfite | $\text{NH}_4^{1+} \text{SO}_3^{2-}$ | $(\text{NH}_4)_2\text{SO}_3$ |
| 41) silver bromide | $\text{Ag}^{1+} \text{Br}^{1-}$ | AgBr |
| 42) lead (IV) nitrite | $\text{Pb}^{4+} \text{NO}_2^{1-}$ | $\text{Pb}(\text{NO}_2)_4$ |