

Writing Formulas From Names

Write the formulas for the following compounds.

1. carbon monoxide CO
2. sodium chloride NaCl
3. carbon tetrachloride CCl₄
4. magnesium bromide MgBr₂
5. aluminum iodide AlI₃
6. hydrogen hydroxide HOH (H₂O)
7. iron (II) fluoride FeF₂
8. carbon dioxide CO₂
9. sodium carbonate Na₂CO₃
10. ammonium sulfide (NH₄)₂S
11. iron (II) oxide FeO
12. Iron (III) oxide Fe₂O₃
13. magnesium sulfate MgSO₄
14. sodium phosphate Na₃PO₄
15. dinitrogen pentoxide N₂O₅
16. phosphorus trichloride PCl₃
17. aluminum sulfite Al₂(SO₃)₃
18. copper (I) carbonate Cu₂CO₃
20. sulfur trioxide SO₃

Balancing Equations

Balance the following chemical equations.

1. $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$
2. $2Na + I_2 \rightarrow 2NaI$
3. $2N_2 + O_2 \rightarrow 2N_2O$
4. $N_2 + 3H_2 \rightarrow 2NH_3$
5. $2KI + Cl_2 \rightarrow 2KCl + I_2$
6. $2HCl + Ca(OH)_2 \rightarrow CaCl_2 + 2H_2O$
7. $2KClO_3 \rightarrow 2KCl + 3O_2$
8. $K_3PO_4 + 3HCl \rightarrow 3KCl + H_3PO_4$
9. $2S + 3O_2 \rightarrow 2SO_3$
10. $2KI + Pb(NO_3)_2 \rightarrow 2KNO_3 + PbI_2$
11. $3CaSO_4 + 2AlBr_3 \rightarrow 3CaBr_2 + Al_2(SO_4)_3$
12. $2H_2O_2 \rightarrow 2H_2O + O_2$
13. $2Na + 2H_2O \rightarrow 2NaOH + H_2$
14. $2C_2H_6 + 7O_2 \rightarrow 4CO_2 + 6H_2O$
15. $3Mg(NO_3)_2 + 2K_3PO_4 \rightarrow Mg_3(PO_4)_2 + 6KNO_3$