



BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 82

- $2 \text{BF}_3 + \text{Li}_2\text{SO}_3 = \text{B}_2(\text{SO}_3)_3 + \text{LiF}$
- $\text{HCl} + 40 \text{As}_2\text{O}_3 + 100 \text{NaNO}_3 + 7 \text{H}_2\text{O} = 100 \text{NO} + \text{H}_3\text{AsO}_4 + 100 \text{NaCl}$
- $\text{Al}_2\text{O}_3 + \text{NaOH} + 3 \text{H}_2\text{O} = \text{Na}_3\text{Al}(\text{OH})_6$
- $\text{H}_3\text{PO}_4(\text{aq}) + \text{KOH}(\text{aq}) = \text{K}_3\text{PO}_4(\text{aq}) + \text{H}_2\text{O}(\text{l})$
- $16 \text{H}_2\text{S} + \text{SO}_2 = 3 \text{S}_8 + \text{H}_2\text{O}$
- $\text{P} + 3 \text{H}_2\text{O} + 3 \text{NaOH} = \text{PH}_3 + \text{NaH}_2\text{PO}_2$
- $\text{Pb}(\text{NO}_3)_2 = \text{PbO} + 4 \text{NO}_2 + \text{O}_2$
- $2 \text{Al} + \text{NaOH} = \text{Na}_3\text{AlO}_3 + 3 \text{H}_2$
- $\text{AlBr}_3(\text{aq}) + \text{AgNO}_3(\text{aq}) = \text{Al}(\text{NO}_3)_3(\text{aq}) + \text{AgBr}(\text{s})$
- $\text{C}_{12}\text{H}_{24}\text{O}_2(\text{s}) + \text{O}_2(\text{g}) = 12 \text{CO}_2(\text{g}) + \text{H}_2\text{O}$
- $\text{H}_3\text{PO}_4 + 3 \text{Ca}(\text{NO}_3)_2 = \text{Ca}_3(\text{PO}_4)_2 + \text{HNO}_3$
- $\text{FeCl}_3 + \text{Be}_3(\text{PO}_4)_2 = 3 \text{BeCl}_2 + \text{FePO}_4$
- $2 \text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_4 = 2 \text{K}_2\text{SO}_4 + \text{Cr}_2(\text{SO}_4)_3 + 8 \text{H}_2\text{O} + 3 \text{O}_2$
- $10 \text{MO} + \text{KMnO}_4 + 3 \text{H}_2\text{SO}_4 = \text{M}_2\text{O}_3 + \text{K}_2\text{SO}_4 + 2 \text{MnSO}_4 + 3 \text{H}_2\text{O}$
- $\text{NAO} + \text{H}_2\text{O} = \text{NAOH}$
- $\text{GaF}_3 + \text{Cs} = \text{CsF} + \text{Ga}$
- $\text{CoCl}_2 + \text{NH}_3 + 2 \text{H}_2\text{O} = \text{Co}(\text{OH})_2 + \text{NH}_4\text{Cl}$
- $\text{Ca}_3\text{P}_2 + \text{H}_2\text{O} = \text{Ca}(\text{OH})_2 + 2 \text{PH}_3$
- $\text{P}_4 + \text{F}_2 = \text{PF}_3$
- $\text{FeS} + 7 \text{O}_2 = 2 \text{Fe}_2\text{O}_3 + \text{SO}_2$



ANSWERS

1. $2 \text{BF}_3 + 3 \text{Li}_2\text{SO}_3 = \text{B}_2(\text{SO}_3)_3 + 6 \text{LiF}$
2. $100 \text{HCl} + 40 \text{As}_2\text{O}_3 + 100 \text{NaNO}_3 + 7 \text{H}_2\text{O} = 100 \text{NO} + 80 \text{H}_3\text{AsO}_4 + 100 \text{NaCl}$
3. $\text{Al}_2\text{O}_3 + 6 \text{NaOH} + 3 \text{H}_2\text{O} = 2 \text{Na}_3\text{Al}(\text{OH})_6$
4. $\text{H}_3\text{PO}_4(\text{aq}) + 3 \text{KOH}(\text{aq}) = \text{K}_3\text{PO}_4(\text{aq}) + 3 \text{H}_2\text{O}(\text{l})$
5. $16 \text{H}_2\text{S} + 8 \text{SO}_2 = 3 \text{S}_8 + 16 \text{H}_2\text{O}$
6. $4 \text{P} + 3 \text{H}_2\text{O} + 3 \text{NaOH} = \text{PH}_3 + 3 \text{NaH}_2\text{PO}_2$
7. $2 \text{Pb}(\text{NO}_3)_2 = 2 \text{PbO} + 4 \text{NO}_2 + \text{O}_2$
8. $2 \text{Al} + 6 \text{NaOH} = 2 \text{Na}_3\text{AlO}_3 + 3 \text{H}_2$
9. $\text{AlBr}_3(\text{aq}) + 3 \text{AgNO}_3(\text{aq}) = \text{Al}(\text{NO}_3)_3(\text{aq}) + 3 \text{AgBr}(\text{s})$
10. $\text{C}_{12}\text{H}_{24}\text{O}_2(\text{s}) + 17 \text{O}_2(\text{g}) = 12 \text{CO}_2(\text{g}) + 12 \text{H}_2\text{O}$
11. $2 \text{H}_3\text{PO}_4 + 3 \text{Ca}(\text{NO}_3)_2 = \text{Ca}_3(\text{PO}_4)_2 + 6 \text{HNO}_3$
12. $2 \text{FeCl}_3 + \text{Be}_3(\text{PO}_4)_2 = 3 \text{BeCl}_2 + 2 \text{FePO}_4$
13. $2 \text{K}_2\text{Cr}_2\text{O}_7 + 8 \text{H}_2\text{SO}_4 = 2 \text{K}_2\text{SO}_4 + 2 \text{Cr}_2(\text{SO}_4)_3 + 8 \text{H}_2\text{O} + 3 \text{O}_2$
14. $10 \text{MO} + 2 \text{KMnO}_4 + 3 \text{H}_2\text{SO}_4 = 5 \text{M}_2\text{O}_3 + \text{K}_2\text{SO}_4 + 2 \text{MnSO}_4 + 3 \text{H}_2\text{O}$
15. $20 \text{NaO} + \text{H}_2\text{O} = 20 \text{NaOH}$
16. $\text{GaF}_3 + 3 \text{Cs} = 3 \text{CsF} + \text{Ga}$
17. $\text{CoCl}_2 + 2 \text{NH}_3 + 2 \text{H}_2\text{O} = \text{Co}(\text{OH})_2 + 2 \text{NH}_4\text{Cl}$
18. $\text{Ca}_3\text{P}_2 + 6 \text{H}_2\text{O} = 3 \text{Ca}(\text{OH})_2 + 2 \text{PH}_3$
19. $\text{P}_4 + 6 \text{F}_2 = 4 \text{PF}_3$
20. $4 \text{FeS} + 7 \text{O}_2 = 2 \text{Fe}_2\text{O}_3 + 4 \text{SO}_2$



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