



BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 93

- $\text{H}_2\text{Zno} + \text{NaOH} = \text{Na}_2\text{Zno} + \text{H}_2\text{O}$
- $\text{K}_2\text{Cr}_2\text{O}_7 + \text{HCl} = 2 \text{KCl} + \text{CrCl}_3 + 3 \text{Cl}_2 + 7 \text{H}_2\text{O}$
- $\text{HNO}_3 + \text{Ca}(\text{OH})_2 = \text{H}_2\text{O} + \text{Ca}(\text{NO}_3)_2$
- $\text{Cl} + 3 \text{H}_2\text{O} = \text{HCL} + \text{HClO}_3$
- $\text{Ag}_3\text{PO}_4 + \text{HNO}_3 = \text{AgNO}_3 + \text{H}_3\text{PO}_4$
- $\text{Al}_2\text{S}_3 + \text{H}_2\text{O} = \text{Al}(\text{OH})_3 + 3 \text{H}_2\text{S}$
- $\text{Al}_2\text{O}_3 + \text{NaOH} + 12 \text{HF} = \text{Na}_3\text{AlF}_6 + 9 \text{H}_2\text{O}$
- $\text{H}_3\text{PO}_4 + \text{HCl} = \text{PCl}_5 + \text{H}_2\text{O}$
- $\text{HI} + \text{K}_2\text{Cr}_2\text{O}_7 = \text{KI} + 2 \text{CrI}_3 + 7 \text{H}_2\text{O} + 6 \text{I}$
- $5 \text{FeCl}_2 + \text{KMnO}_4 + \text{HCl} = 5 \text{FeCl}_3 + \text{MnCl}_2 + \text{H}_2\text{O} + \text{KCl}$
- $\text{As}_2\text{S}_3 = \text{As}_4 + 3 \text{S}_8$
- $\text{CH}_3\text{CH}_3 + 7 \text{O}_2 = 4 \text{CO}_2 + \text{H}_2\text{O}$
- $\text{Bi}_2\text{O}_3(\text{s}) + \text{C}(\text{s}) = \text{Bi}(\text{s}) + 3 \text{CO}(\text{g})$
- $3 \text{CaCO}_3 + \text{H}_3\text{PO}_4 = \text{Ca}_3(\text{PO}_4)_2 + \text{H}_2\text{CO}_3$
- $\text{NH}_3 + 7 \text{O}_2 = 4 \text{NO}_2 + \text{H}_2\text{O}$
- $\text{Fe}_2\text{O}_3(\text{s}) + \text{CO}(\text{g}) = \text{Fe}_3\text{O}_4 + \text{CO}_2$
- $\text{Pb}(\text{C}_2\text{H}_5) + 15 \text{O}_2 = \text{PbO} + 8 \text{CO}_2 + 10 \text{H}_2\text{O}$
- $3 \text{Ag} + \text{HNO}_3 = \text{AgNO}_3 + \text{NO} + 2 \text{H}_2\text{O}$
- $\text{SnO}_2 + \text{H}_2 = \text{Sn} + \text{H}_2\text{O}$
- $\text{NO}_2 + \text{H}_2\text{O} = \text{HNO}_3 + \text{NO}$



ANSWERS

1. $\text{H}_2\text{Zno} + 2 \text{NaOH} = \text{Na}_2\text{Zno} + 2 \text{H}_2\text{O}$
2. $\text{K}_2\text{Cr}_2\text{O}_7 + 14 \text{HCl} = 2 \text{KCl} + 2 \text{CrCl}_3 + 3 \text{Cl}_2 + 7 \text{H}_2\text{O}$
3. $2 \text{HNO}_3 + \text{Ca}(\text{OH})_2 = 2 \text{H}_2\text{O} + \text{Ca}(\text{NO}_3)_2$
4. $6 \text{CL} + 3 \text{H}_2\text{O} = 5 \text{HCL} + \text{HClO}_3$
5. $\text{Ag}_3\text{PO}_4 + 3 \text{HNO}_3 = 3 \text{AgNO}_3 + \text{H}_3\text{PO}_4$
6. $\text{Al}_2\text{S}_3 + 6 \text{H}_2\text{O} = 2 \text{Al}(\text{OH})_3 + 3 \text{H}_2\text{S}$
7. $\text{Al}_2\text{O}_3 + 6 \text{NaOH} + 12 \text{HF} = 2 \text{Na}_3\text{AlF}_6 + 9 \text{H}_2\text{O}$
8. $\text{H}_3\text{PO}_4 + 5 \text{HCl} = \text{PCl}_5 + 4 \text{H}_2\text{O}$
9. $14 \text{HI} + \text{K}_2\text{Cr}_2\text{O}_7 = 2 \text{KI} + 2 \text{CrI}_3 + 7 \text{H}_2\text{O} + 6 \text{I}$
10. $5 \text{FeCl}_2 + \text{KMnO}_4 + 8 \text{HCl} = 5 \text{FeCl}_3 + \text{MnCl}_2 + 4 \text{H}_2\text{O} + \text{KCl}$
11. $8 \text{As}_2\text{S}_3 = 4 \text{As}_4 + 3 \text{S}_8$
12. $2 \text{CH}_3\text{CH}_3 + 7 \text{O}_2 = 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
13. $\text{Bi}_2\text{O}_3(\text{s}) + 3 \text{C}(\text{s}) = 2 \text{Bi}(\text{s}) + 3 \text{CO}(\text{g})$
14. $3 \text{CaCO}_3 + 2 \text{H}_3\text{PO}_4 = \text{Ca}_3(\text{PO}_4)_2 + 3 \text{H}_2\text{CO}_3$
15. $4 \text{NH}_3 + 7 \text{O}_2 = 4 \text{NO}_2 + 6 \text{H}_2\text{O}$
16. $3 \text{Fe}_2\text{O}_3(\text{s}) + \text{CO}(\text{g}) = 2 \text{Fe}_3\text{O}_4 + \text{CO}_2$
17. $4 \text{Pb}(\text{C}_2\text{H}_5) + 15 \text{O}_2 = 4 \text{PbO} + 8 \text{CO}_2 + 10 \text{H}_2\text{O}$
18. $3 \text{Ag} + 4 \text{HNO}_3 = 3 \text{AgNO}_3 + \text{NO} + 2 \text{H}_2\text{O}$
19. $\text{SnO}_2 + 2 \text{H}_2 = \text{Sn} + 2 \text{H}_2\text{O}$
20. $3 \text{NO}_2 + \text{H}_2\text{O} = 2 \text{HNO}_3 + \text{NO}$



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