



BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 66

- $\text{SiCl}_4 + \text{H}_2\text{O} = \text{SiO}_2 + \text{HCl}$
- $\text{HCl} + \text{Ti}(\text{HCO}_3)_3 = \text{TiCl}_3 + \text{H}_2\text{O} + 3 \text{CO}_2$
- $2 \text{KMnO}_4 + \text{H}_2\text{SO}_4 + 5 \text{Na}_2\text{SO}_3 = \text{MnSO}_4 + \text{K}_2\text{SO}_4 + 5 \text{Na}_2\text{SO}_4 + 3 \text{H}_2\text{O}$
- $\text{SiO}_2 + \text{HF} = \text{SiF}_4 + \text{H}_2\text{O}$
- $2 \text{C}_3\text{H}_8\text{O} + \text{O}_2 = 6 \text{CO}_2 + \text{H}_2\text{O}$
- $2 \text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{O} + 3 \text{S} = 3 \text{SO}_2 + \text{KOH} + 2 \text{Cr}_2\text{O}_3$
- $2 \text{C}_2\text{H}_6 + \text{O}_2 = 4 \text{CO}_2 + \text{H}_2\text{O}$
- $2 \text{C}_2\text{H}_6(\text{g}) + \text{O}_2(\text{g}) = 4 \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g})$
- $\text{Mg}_3\text{N}_2 + \text{H}_2\text{O} = \text{H}_2\text{MgO}_2 + 2 \text{NH}_3$
- $(\text{CH}_3(\text{CH}_2)_2\text{CH}_3) + 13 \text{O}_2 = 8 \text{CO}_2 + \text{H}_2\text{O}$
- $10 \text{CH}_3(\text{CH}_2)_6\text{CH}_3 + \text{O}_2 = \text{CO}_2 + 9 \text{H}_2\text{O}$
- $\text{NaCl} = \text{Na} + \text{Cl}_2$
- $\text{P}_4\text{O}_{10} + \text{H}_2\text{O} = \text{H}_3\text{PO}_4$
- $\text{KClO}_3 = \text{KCl} + 3 \text{O}_2$
- $\text{CH}_3\text{CH}_3 + 7 \text{O}_2 = \text{CO}_2 + 6 \text{H}_2\text{O}$
- $\text{CH}_3(\text{CH}_2)_7 + 49 \text{O}_2 = \text{CO}_2 + 34 \text{H}_2\text{O}$
- $\text{C}_3\text{H}_8 + \text{O}_2 = \text{CO}_2 + 4 \text{H}_2\text{O}$
- $\text{BaSO}_4 + \text{C} + \text{Na}_2\text{CO}_3 = \text{Na}_2\text{S} + \text{BaCO}_3 + \text{CO}$
- $2 \text{CH}_3\text{CH}_3 + \text{O}_2 = \text{CO}_2 + 6 \text{H}_2\text{O}$
- $\text{CH}_3(\text{CH}_2)_4\text{CH}_3 + 19 \text{O}_2 = \text{CO}_2 + 14 \text{H}_2\text{O}$



ANSWERS

1. $\text{SiCl}_4 + 2 \text{H}_2\text{O} = \text{SiO}_2 + 4 \text{HCl}$
2. $3 \text{HCl} + \text{Ti}(\text{HCO}_3)_3 = \text{TiCl}_3 + 3 \text{H}_2\text{O} + 3 \text{CO}_2$
3. $2 \text{KMnO}_4 + 3 \text{H}_2\text{SO}_4 + 5 \text{Na}_2\text{SO}_3 = 2 \text{MnSO}_4 + \text{K}_2\text{SO}_4 + 5 \text{Na}_2\text{SO}_4 + 3 \text{H}_2\text{O}$
4. $\text{SiO}_2 + 4 \text{HF} = \text{SiF}_4 + 2 \text{H}_2\text{O}$
5. $2 \text{C}_3\text{H}_8\text{O} + 9 \text{O}_2 = 6 \text{CO}_2 + 8 \text{H}_2\text{O}$
6. $2 \text{K}_2\text{Cr}_2\text{O}_7 + 2 \text{H}_2\text{O} + 3 \text{S} = 3 \text{SO}_2 + 4 \text{KOH} + 2 \text{Cr}_2\text{O}_3$
7. $2 \text{C}_2\text{H}_6 + 7 \text{O}_2 = 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
8. $2 \text{C}_2\text{H}_6(\text{g}) + 7 \text{O}_2(\text{g}) = 4 \text{CO}_2(\text{g}) + 6 \text{H}_2\text{O}(\text{g})$
9. $\text{Mg}_3\text{N}_2 + 6 \text{H}_2\text{O} = 3 \text{H}_2\text{MgO}_2 + 2 \text{NH}_3$
10. $2 (\text{CH}_3(\text{CH}_2)_2\text{CH}_3) + 13 \text{O}_2 = 8 \text{CO}_2 + 10 \text{H}_2\text{O}$
11. $10 \text{CH}_3(\text{CH}_2)_6\text{CH}_3 + 80 \text{O}_2 = 80 \text{CO}_2 + 9 \text{H}_2\text{O}$
12. $2 \text{NaCl} = 2 \text{Na} + \text{Cl}_2$
13. $\text{P}_4\text{O}_{10} + 6 \text{H}_2\text{O} = 4 \text{H}_3\text{PO}_4$
14. $2 \text{KClO}_3 = 2 \text{KCl} + 3 \text{O}_2$
15. $2 \text{CH}_3\text{CH}_3 + 7 \text{O}_2 = 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
16. $4 \text{CH}_3(\text{CH}_2)_7 + 49 \text{O}_2 = 32 \text{CO}_2 + 34 \text{H}_2\text{O}$
17. $\text{C}_3\text{H}_8 + 5 \text{O}_2 = 3 \text{CO}_2 + 4 \text{H}_2\text{O}$
18. $\text{BaSO}_4 + 4 \text{C} + \text{Na}_2\text{CO}_3 = \text{Na}_2\text{S} + \text{BaCO}_3 + 4 \text{CO}$
19. $2 \text{CH}_3\text{CH}_3 + 7 \text{O}_2 = 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
20. $2 \text{CH}_3(\text{CH}_2)_4\text{CH}_3 + 19 \text{O}_2 = 12 \text{CO}_2 + 14 \text{H}_2\text{O}$



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