



## BALANCE THE GIVEN CHEMICAL EQUATIONS

### Worksheet - 39

- $2 \text{C}_{10}\text{H}_{22} + \text{O}_2 = 20 \text{CO}_2 + \text{H}_2\text{O}$
- $\text{Li} + \text{SO}_4 = \text{Li}_2\text{SO}_4$
- $\text{N}_2 + \text{H}_2 = 2 \text{NH}_3$
- $2 \text{I}_2\text{O}_5 + 20 \text{BrF}_3 = 4 \text{IF}_5 + \text{O}_2 + 20 \text{BrF}_2$
- $10 \text{HCOOK} + \text{KMNO}_4 + 11 \text{H}_2\text{SO}_4 = 10 \text{CO}_2 + 7 \text{K}_2\text{SO}_4 + \text{MNSO}_4 + 16 \text{H}_2\text{O}$
- $\text{SiCl}_4 + \text{H}_2\text{O} = \text{H}_4\text{SiO}_4 + \text{HCl}$
- $\text{CH}_4 + \text{O}_2 = \text{CO}_2 + \text{H}_2\text{O}$
- $\text{CaCl}_2 + \text{NaPO}_4 = \text{NaCl} + \text{Ca}(\text{PO}_4)_2$
- $2 \text{CO} + \text{O}_2 = \text{CO}_2$
- $\text{NaHCO}_3 = \text{Na}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$
- $\text{Fe}_2\text{O}_3 + \text{C} = 2 \text{Fe} + \text{CO}$
- $\text{PCl}_5 + \text{H}_2\text{O} = \text{H}_3\text{PO}_4 + \text{HCl}$
- $\text{Co}(\text{OH})_3 + \text{HNO}_3 = \text{H}_2\text{O} + \text{Co}(\text{NO}_3)_3$
- $\text{NH}_4\text{NO}_3 = \text{N}_2\text{O} + \text{H}_2\text{O}$
- $2 \text{NA}(\text{s}) + \text{H}_2\text{O}(\text{l}) = 2 \text{NAOH}(\text{aq}) + \text{H}_2(\text{g})$
- $\text{KNO}_3 + \text{H}_2\text{CO}_3 = \text{K}_2\text{CO}_3 + \text{HNO}_3$
- $\text{K}_2\text{Cr}_2\text{O}_7 + 14 \text{HCl} = \text{CrCl}_3 + 2 \text{KCl} + 3 \text{Cl}_2 + 7 \text{H}_2\text{O}$
- $4 \text{Ca}_3(\text{PO}_4) + \text{SiO}_2 + 4 \text{C} = 12 \text{CaSiO}_3 + \text{CO} + \text{P}_4$
- $\text{Fe}(\text{SO}_4)(\text{aq}) + \text{Ag}(\text{NO}_3)(\text{aq}) = \text{Fe}(\text{NO}_3)_2 + \text{Ag}_2(\text{SO}_4)$
- $\text{K}_2\text{Cr}_2\text{O}_7 + 3 \text{SnCl}_2 + \text{HCl} = 2 \text{KCl} + \text{CrCl}_3 + 3 \text{SnCl}_4 + 7 \text{H}_2\text{O}$



# ANSWERS

1.  $2 \text{C}_{10}\text{H}_{22} + 31 \text{O}_2 = 20 \text{CO}_2 + 22 \text{H}_2\text{O}$
2.  $2 \text{Li} + \text{SO}_4 = \text{Li}_2\text{SO}_4$
3.  $\text{N}_2 + 3 \text{H}_2 = 2 \text{NH}_3$
4.  $2 \text{I}_2\text{O}_5 + 20 \text{BrF}_3 = 4 \text{IF}_5 + 5 \text{O}_2 + 20 \text{BrF}_2$
5.  $10 \text{HCOOK} + 4 \text{KMNO}_4 + 11 \text{H}_2\text{SO}_4 = 10 \text{CO}_2 + 7 \text{K}_2\text{SO}_4 + 4 \text{MNSO}_4 + 16 \text{H}_2\text{O}$
6.  $\text{SiCl}_4 + 4 \text{H}_2\text{O} = \text{H}_4\text{SiO}_4 + 4 \text{HCl}$
7.  $\text{CH}_4 + 2 \text{O}_2 = \text{CO}_2 + 2 \text{H}_2\text{O}$
8.  $\text{CaCl}_2 + 2 \text{NaPO}_4 = 2 \text{NaCl} + \text{Ca}(\text{PO}_4)_2$
9.  $2 \text{CO} + \text{O}_2 = 2 \text{CO}_2$
10.  $2 \text{NaHCO}_3 = \text{Na}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$
11.  $\text{Fe}_2\text{O}_3 + 3 \text{C} = 2 \text{Fe} + 3 \text{CO}$
12.  $\text{PCl}_5 + 4 \text{H}_2\text{O} = \text{H}_3\text{PO}_4 + 5 \text{HCl}$
13.  $\text{Co}(\text{OH})_3 + 3 \text{HNO}_3 = 3 \text{H}_2\text{O} + \text{Co}(\text{NO}_3)_3$
14.  $\text{NH}_4\text{NO}_3 = \text{N}_2\text{O} + 2 \text{H}_2\text{O}$
15.  $2 \text{NA}(\text{s}) + 2 \text{H}_2\text{O}(\text{l}) = 2 \text{NAOH}(\text{aq}) + \text{H}_2(\text{g})$
16.  $2 \text{KNO}_3 + \text{H}_2\text{CO}_3 = \text{K}_2\text{CO}_3 + 2 \text{HNO}_3$
17.  $\text{K}_2\text{Cr}_2\text{O}_7 + 14 \text{HCl} = 2 \text{CrCl}_3 + 2 \text{KCl} + 3 \text{Cl}_2 + 7 \text{H}_2\text{O}$
18.  $4 \text{Ca}_3(\text{PO}_4) + 12 \text{SiO}_2 + 4 \text{C} = 12 \text{CaSiO}_3 + 4 \text{CO} + \text{P}_4$
19.  $\text{Fe}(\text{SO}_4)(\text{aq}) + 2 \text{Ag}(\text{NO}_3)(\text{aq}) = \text{Fe}(\text{NO}_3)_2 + \text{Ag}_2(\text{SO}_4)$
20.  $\text{K}_2\text{Cr}_2\text{O}_7 + 3 \text{SnCl}_2 + 14 \text{HCl} = 2 \text{KCl} + 2 \text{CrCl}_3 + 3 \text{SnCl}_4 + 7 \text{H}_2\text{O}$



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