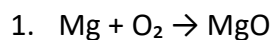


CHEMICAL REACTIONS AND EQUATIONS

Reactions of chapter Ist



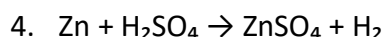
Magnesium (s) + Oxygen (g) → Magnesium oxide (s)



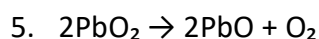
Potassium chlorate (s) → Potassium chloride (s) + Oxygen (g) + catalyst



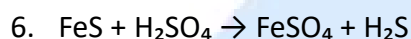
Lead nitrate (aq) + Potassium iodide (aq) → Lead iodide (s) + Potassium nitrate (aq)



Zinc (s) + Sulphuric acid (aq) → Zinc sulphate (aq) + Hydrogen (g)



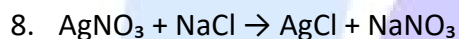
Lead dioxide (s) → Lead oxide (s) + Oxygen (g)



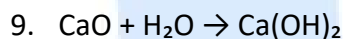
Iron sulphide (s) + Sulphuric acid (aq) → Iron sulphate (aq) + Hydrogen sulphide (g)



Ammonia (g) + Hydrogen chloride (g) → Ammonium chloride (s)



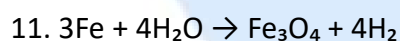
Silver nitrate (aq) + Sodium chloride (aq) → Silver chloride (s) + Sodium nitrate (aq)



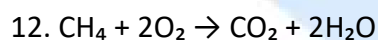
Calcium oxide (s) + Water (l) → Calcium hydroxide (aq)



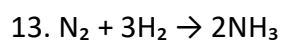
Calcium carbonate (s) → Calcium oxide (s) + Carbon dioxide (g)



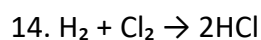
Iron (s) + Water (g) → Iron oxide (s) + Hydrogen (g)



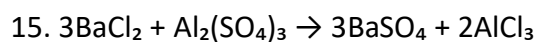
Methane (g) + Oxygen (g) → Carbon dioxide (g) + Water (l)



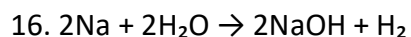
Nitrogen (g) + Hydrogen (g) → Ammonia (g) + catalyst



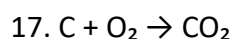
Hydrogen (g) + Chlorine (g) → Hydrogen chloride (g)



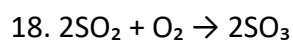
Barium chloride (aq) + Aluminium sulphate (aq) → Barium sulphate (s) + Aluminium chloride (aq)



Sodium (s) + Water (l) \rightarrow Sodium hydroxide (aq) + Hydrogen (g)



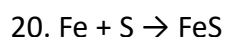
Carbon (s) + Oxygen (g) \rightarrow Carbon dioxide (g)



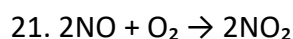
Sulphur dioxide (g) + Oxygen (g) \rightarrow Sulphur trioxide (g) + catalyst



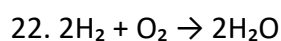
Sodium (s) + Chlorine (g) \rightarrow Sodium chloride (s)



Iron (s) + Sulphur (s) \rightarrow Iron sulphide (s)



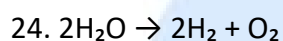
Nitric oxide (g) + Oxygen (g) \rightarrow Nitrogen dioxide (g)



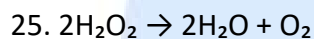
Hydrogen (g) + Oxygen (g) \rightarrow Water (l)



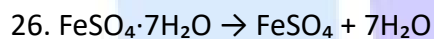
Ammonia (g) + Hydrogen chloride (g) \rightarrow Ammonium chloride (s)



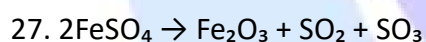
Water (l) \rightarrow Hydrogen (g) + Oxygen (g)



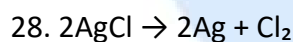
Hydrogen peroxide (l) \rightarrow Water (l) + Oxygen (g) + catalyst



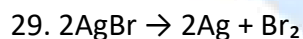
Ferrous sulphate crystals (s) \rightarrow Ferrous sulphate (s) + Water (g)



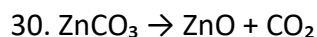
Ferrous sulphate (s) \rightarrow Ferric oxide (s) + Sulphur dioxide (g) + Sulphur trioxide (g)



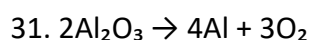
Silver chloride (s) \rightarrow Silver (s) + Chlorine (g)



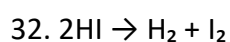
Silver bromide (s) \rightarrow Silver (s) + Bromine (l)



Zinc carbonate (s) \rightarrow Zinc oxide (s) + Carbon dioxide (g)



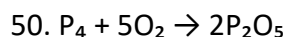
Aluminium oxide (l) \rightarrow Aluminium (l) + Oxygen (g)



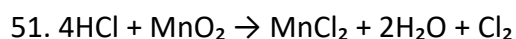
Hydrogen iodide (g) \rightarrow Hydrogen (g) + Iodine (s)

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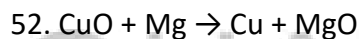
33. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
Iron (s) + Copper sulphate (aq) \rightarrow Iron sulphate (aq) + Copper (s)
34. $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$
Zinc (s) + Copper sulphate (aq) \rightarrow Zinc sulphate (aq) + Copper (s)
35. $\text{Pb} + \text{CuCl}_2 \rightarrow \text{PbCl}_2 + \text{Cu}$
Lead (s) + Copper chloride (aq) \rightarrow Lead chloride (s) + Copper (s)
36. $2\text{KBr} + \text{Cl}_2 \rightarrow 2\text{KCl} + \text{Br}_2$
Potassium bromide (aq) + Chlorine (g) \rightarrow Potassium chloride (aq) + Bromine (l)
37. $\text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$
Zinc (s) + Hydrochloric acid (aq) \rightarrow Zinc chloride (aq) + Hydrogen (g)
38. $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$
Zinc (s) + Sulphuric acid (aq) \rightarrow Zinc sulphate (aq) + Hydrogen (g)
39. $\text{Mg} + \text{CuSO}_4 \rightarrow \text{MgSO}_4 + \text{Cu}$
Magnesium (s) + Copper sulphate (aq) \rightarrow Magnesium sulphate (aq) + Copper (s)
40. $\text{Fe} + \text{Pb}(\text{NO}_3)_2 \rightarrow \text{Fe}(\text{NO}_3)_2 + \text{Pb}$
Iron (s) + Lead nitrate (aq) \rightarrow Iron nitrate (aq) + Lead (s)
41. $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{BaSO}_4 + 2\text{NaCl}$
Sodium sulphate (aq) + Barium chloride (aq) \rightarrow Barium sulphate (s) + Sodium chloride (aq)
42. $\text{BaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + 2\text{HCl}$
Barium chloride (aq) + Sulphuric acid (aq) \rightarrow Barium sulphate (s) + Hydrochloric acid (aq)
43. $\text{CuSO}_4 + 2\text{NH}_4\text{OH} \rightarrow \text{Cu}(\text{OH})_2 + (\text{NH}_4)_2\text{SO}_4$
Copper sulphate (aq) + Ammonium hydroxide (aq) \rightarrow Copper hydroxide (s) + Ammonium sulphate (aq)
44. $\text{AlCl}_3 + 3\text{NH}_4\text{OH} \rightarrow \text{Al}(\text{OH})_3 + 3\text{NH}_4\text{Cl}$
Aluminium chloride (aq) + Ammonium hydroxide (aq) \rightarrow Aluminium hydroxide (s) + Ammonium chloride (aq)
45. $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
Hydrochloric acid (aq) + Sodium hydroxide (aq) \rightarrow Sodium chloride (aq) + Water (l)
46. $\text{H}_2\text{SO}_4 + 2\text{NaOH} \rightarrow \text{Na}_2\text{SO}_4 + 2\text{H}_2\text{O}$
Sulphuric acid (aq) + Sodium hydroxide (aq) \rightarrow Sodium sulphate (aq) + Water (l)
47. $\text{CH}_3\text{COOH} + \text{NaOH} \rightarrow \text{CH}_3\text{COONa} + \text{H}_2\text{O}$
Acetic acid (aq) + Sodium hydroxide (aq) \rightarrow Sodium acetate (aq) + Water (l)
48. $(\text{COOH})_2 + 2\text{NaOH} \rightarrow (\text{COONa})_2 + 2\text{H}_2\text{O}$
Oxalic acid (aq) + Sodium hydroxide (aq) \rightarrow Sodium oxalate (aq) + Water (l)
49. $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$
Copper oxide (s) + Hydrogen (g) \rightarrow Copper (s) + Water (l)



Phosphorus (s) + Oxygen (g) → Phosphorus pentoxide (s)



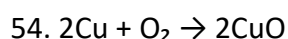
Hydrochloric acid (aq) + Manganese dioxide (s) → Manganese chloride (aq) + Water (l) + Chlorine (g)
+ catalyst



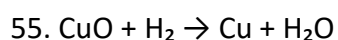
Copper oxide (s) + Magnesium (s) → Copper (s) + Magnesium oxide (s)



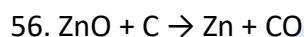
Iron (s) + Oxygen (g) → Iron oxide (s)



Copper (s) + Oxygen (g) → Copper oxide (s)



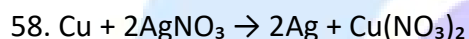
Copper oxide (s) + Hydrogen (g) → Copper (s) + Water (l)



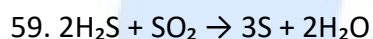
Zinc oxide (s) + Carbon (s) → Zinc (s) + Carbon monoxide (g)



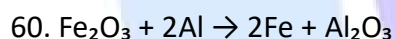
Manganese dioxide (s) + Aluminium (s) → Manganese (s) + Aluminium oxide (s)



Copper (s) + Silver nitrate (aq) → Silver (s) + Copper nitrate (aq)



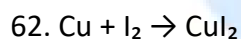
Hydrogen sulphide (g) + Sulphur dioxide (g) → Sulphur (s) + Water (l)



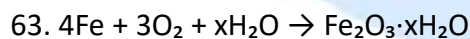
Ferric oxide (s) + Aluminium (s) → Iron (s) + Aluminium oxide (s)



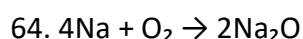
Ferric oxide (s) + Carbon monoxide (g) → Iron (s) + Carbon dioxide (g)



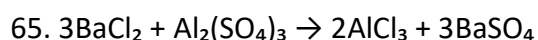
Copper (s) + Iodine (s) → Copper iodide (s)



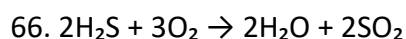
Iron (s) + Oxygen (g) + Water (l) → Hydrated iron oxide (s)



Sodium (s) + Oxygen (g) → Sodium oxide (s)

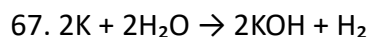


Barium chloride (aq) + Aluminium sulphate (aq) → Aluminium chloride (aq) + Barium sulphate (s)

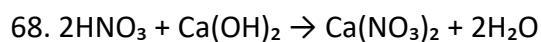


Hydrogen sulphide (g) + Oxygen (g) → Water (l) + Sulphur dioxide (g)

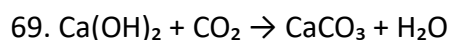
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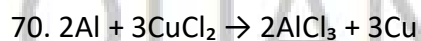
Potassium (s) + Water (l) \rightarrow Potassium hydroxide (aq) + Hydrogen (g)



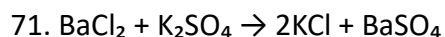
Nitric acid (aq) + Calcium hydroxide (aq) \rightarrow Calcium nitrate (aq) + Water (l)



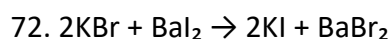
Calcium hydroxide (aq) + Carbon dioxide (g) \rightarrow Calcium carbonate (s) + Water (l)



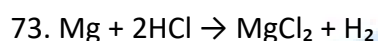
Aluminium (s) + Copper chloride (aq) \rightarrow Aluminium chloride (aq) + Copper (s)



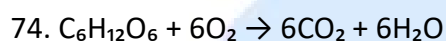
Barium chloride (aq) + Potassium sulphate (aq) \rightarrow Potassium chloride (aq) + Barium sulphate (s)



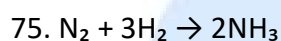
Potassium bromide (aq) + Barium iodide (aq) \rightarrow Potassium iodide (aq) + Barium bromide (aq)



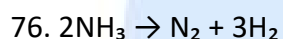
Magnesium (s) + Hydrochloric acid (aq) \rightarrow Magnesium chloride (aq) + Hydrogen (g)



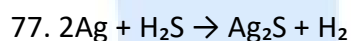
Glucose (aq) + Oxygen (g) \rightarrow Carbon dioxide (g) + Water (l)



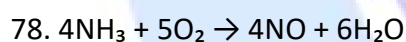
Nitrogen (g) + Hydrogen (g) \rightarrow Ammonia (g) + catalyst



Ammonia (g) \rightarrow Nitrogen (g) + Hydrogen (g)



Silver (s) + Hydrogen sulphide (g) \rightarrow Silver sulphide (s) + Hydrogen (g)



Ammonia (g) + Oxygen (g) \rightarrow Nitric oxide (g) + Water (l) + catalyst