

Combination (Synthesis) Reactions

1. ___CaO + ___H₂O → ___Ca(OH)₂
2. ___P₄ + ___O₂ → ___P₂O₅
3. ___Ca + ___O₂ → ___CaO
4. ___Cu + ___S₈ → ___CuS
5. ___S₈ + ___O₂ → ___SO₂
6. ___H₂ + ___N₂ → ___NH₃
7. ___H₂ + ___Cl₂ → ___HCl
8. ___Ag + ___S₈ → ___Ag₂S
9. ___Cr + ___O₂ → ___Cr₂O₃
10. ___Al + ___Br₂ → ___AlBr₃
11. ___Na + ___I₂ → ___NaI
12. ___H₂ + ___O₂ → ___H₂O
13. ___Al + ___O₂ → ___Al₂O₃

Decomposition Reactions

14. ___BaCO₃ → ___BaO + ___CO₂
15. ___MgCO₃ → ___MgO + ___CO₂
16. ___K₂CO₃ → ___K₂O + ___CO₂
17. ___Zn(OH)₂ → ___ZnO + ___H₂O
18. ___Fe(OH)₂ → ___FeO + ___H₂O
19. ___Ni(ClO₃)₂ → ___NiCl₂ + ___O₂
20. ___NaClO₃ → ___NaCl + ___O₂
21. ___KClO₃ → ___KCl + ___O₂
22. ___H₂SO₄ → ___H₂O + ___SO₃
23. ___H₂CO₃ → ___H₂O + ___CO₂
24. ___Al₂O₃ → ___Al + ___O₂
25. ___Ag₂O → ___Ag + ___O₂

Single Replacement Reactions

26. ___AgNO₃ + ___Ni → ___Ni(NO₃)₂ + ___Ag
27. ___AlBr₃ + ___Cl₂ → ___AlCl₃ + ___Br₂
28. ___NaI + ___Br₂ → ___NaBr + ___I₂
29. ___Ca + ___HCl → ___CaCl₂ + ___H₂
30. ___Mg + ___HNO₃ → ___Mg(NO₃)₂ + ___H₂
31. ___Zn + ___H₂SO₄ → ___ZnSO₄ + ___H₂
32. ___K + ___H₂O → ___KOH + ___H₂
33. ___Na + ___H₂O → ___NaOH + ___H₂

Double Replacement Reactions

34. ___AlI₃ + ___HgCl₂ → ___AlCl₃ + ___HgI₂
35. ___HCl + ___NaOH → ___NaCl + ___H₂O
36. ___BaCl₂ + ___H₂SO₄ → ___BaSO₄ + ___HCl
37. ___Al₂(SO₄)₃ + ___Ca(OH)₂ → ___Al(OH)₃ + ___CaSO₄
38. ___AgNO₃ + ___K₃PO₄ → ___Ag₃PO₄ + ___KNO₃
39. ___CuBr₂ + ___AlCl₃ → ___CuCl₂ + ___AlBr₃
40. ___Ca(C₂H₃O₂)₂ + ___Na₂CO₃ → ___CaCO₃ + ___NaC₂H₃O₂
41. ___NH₄Cl + ___Hg₂(C₂H₃O₂)₂ → ___NH₄C₂H₃O₂ + ___Hg₂Cl₂
42. ___Ca(NO₃)₂ + ___HCl → ___CaCl₂ + ___HNO₃
43. ___FeS + ___HCl → ___FeCl₂ + ___H₂S
44. ___Cu(OH)₂ + ___HC₂H₃O₂ → ___Cu(C₂H₃O₂)₂ + ___H₂O
45. ___Ca(OH)₂ + ___H₃PO₄ → ___Ca₃(PO₄)₂ + ___H₂O
46. ___CaBr₂ + ___KOH → ___Ca(OH)₂ + ___KBr

Combustion Reactions

47. ___CH₄ + ___O₂ → ___CO₂ + ___H₂O
48. ___C₂H₆ + ___O₂ → ___CO₂ + ___H₂O
49. ___C₃H₈ + ___O₂ → ___CO₂ + ___H₂O
50. ___C₄H₁₀ + ___O₂ → ___CO₂ + ___H₂O
51. ___C₅H₁₂ + ___O₂ → ___CO₂ + ___H₂O
52. ___C₆H₁₄ + ___O₂ → ___CO₂ + ___H₂O
53. ___C₂H₄ + ___O₂ → ___CO₂ + ___H₂O
54. ___C₂H₂ + ___O₂ → ___CO₂ + ___H₂O
55. ___C₆H₆ + ___O₂ → ___CO₂ + ___H₂O