BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 38

1. 4 $C_6H_5NO_2$ + _____ O_2 = 24 CO_2 + 10 H_2O + _____ N_2
2. $Fe(NO_3)_2$ + $Na_2Cr_2O_7$ = _____ $Na(NO_3)$ + $Fe(Cr_2O_7)$
3. 4 Na + O_2 = _____ Na_2O
4. $Ba(NO_3)_2$ + _____ NaOH = $Ba(OH)_2$ + _____ $NaNO_3$
5. $Fe(OH)_3$ + _____ HNO_3 = $Fe(NO_3)_3$ + _____ H_2O
6. $Sr(NO_3)_2$ + K_2CO_4 = $SrCO_4$ + _____ KNO_3
7. 2 Fe(s) + O_2(g) + _____ H_2O(l) = 2 $Fe(OH)_2$(aq)
8. _____ CH_4 + 5 O_2 = _____ CO_2 + H_{20}
9. _____ ZnS + 3 O_2 = 2 ZnO + _____ SO_2
10. H_3PO_4 + _____ HCl = PCl_5 + 4 H_2O
11. 14 H_2O + _____ CO_2 = 2 C_6H_{14} + 19 O_2
12. 4 HNO_3 + Cu = $Cu(NO_3)_2$ + _____ NO_2 + 2 H_2O
13. $C_{52}H_{51}Cl_3N_2O_{11}Sn$ = _____ C + 51 H + 2 N + 11 O + Sn + 3 Cl
14. $PB(CH_3COO)_2$ + _____ KI = PBI_2 + 2 CH_3COOK
15. 3 K_2CO_3(s) + 2 H_3PO_4(aq) = 2 K_3PO_4(aq) + _____ H_2O(l) + 3 CO_2(g)
16. $C_3H_5O(CO_2H)_3$ + _____ OH = $C_3H_5O(CO_2)_3$ + _____ H_2O
17. 20 HCl(aq) + 4 K_2CrO_7(aq) + _____ C_2H_5OH(aq) = 4 $CrCl_3$(aq) + 6 CO_2(g) + 8 KCl(aq) + _____ H_2O(l)
18. $Ca(NO_3)_2$(aq) + Na_2CO_3(aq) = $CaCO_3$(aq) +_____ $NaNO_3$(aq)
19. 2 As + 3 H_2 = _____ AsH_3
20. $CUSO_4$ + _____ Ag = Ag_2SO_4 + CU

ANSWERS

1. $4\ C_6H_5NO_2 + 25\ O_2 = 24\ CO_2 + 10\ H_2O + 2\ N_2$
2. $Fe(NO_3)_2 + Na_2Cr_2O_7 = 2\ Na(NO_3) + Fe(Cr_2O_7)$
3. $4\ Na + O_2 = 2\ Na_2O$
4. $Ba(NO_3)_2 + 2\ NaOH = Ba(OH)_2 + 2\ NaNO_3$
5. $Fe(OH)_3 + 3\ HNO_3 = Fe(NO_3)_3 + 3\ H_2O$
6. $Sr(NO_3)_2 + K_2CO_4 = SrCO_4 + 2\ KNO_3$
7. $2\ Fe(s) + O_2(g) + 2\ H_2O(l) = 2\ Fe(OH)_2(aq)$
8. $5\ CH_4 + 5\ O_2 = 5\ CO_2 + H_{20}$
9. $2\ ZnS + 3\ O_2 = 2\ ZnO + 2\ SO_2$
10. $H_3PO_4 + 5\ HCl = PCl_5 + 4\ H_2O$
11. $14\ H_2O + 12\ CO_2 = 2\ C_6H_{14} + 19\ O_2$
12. $4\ HNO_3 + Cu = Cu(NO_3)_2 + 2\ NO_2 + 2\ H_2O$
13. $C_{52}H_{51}Cl_3N_2O_{11}Sn = 52\ C + 51\ H + 2\ N + 11\ O + Sn + 3\ Cl$
14. $PB(CH_3COO)_2 + 2\ KI = PBI_2 + 2\ CH_3COOK$
15. $3\ K_2CO_3(s) + 2\ H_3PO_4(aq) = 2\ K_3PO_4(aq) + 3\ H_2O(l) + 3\ CO_2(g)$
16. $C_3H_5O(CO_2H)_3 + 3\ OH = C_3H_5O(CO_2)_3 + 3\ H_2O$
17. $20\ HCl(aq) + 4\ K_2CrO_7(aq) + 3\ C_2H_5OH(aq) = 4\ CrCl_3(aq) + 6\ CO_2(g) + 8\ KCl(aq) + 19\ H_2O(l)$
18. $Ca(NO_3)_2(aq) + Na_2CO_3(aq) = CaCO_3(aq) + 2\ NaNO_3(aq)$
19. $2\ As + 3\ H_2 = 2\ AsH_3$
20. $CUSO_4 + 2\ Ag = Ag_2SO_4 + CU$

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