BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 64

1. Al_2S_3 + _____ H_2O = 2 $Al(OH)_3$ + _____ H_2S
2. _____ $C_6H_{12}O_2$ + 25 O_2 = _____ CO_2 + 3 H_{20}
3. S + _____ HNO_3 = H_2SO_4 + _____ NO_2 + 2 H_2O
4. _____ $CH_3(CH_2)_6CH_3$ + 25 O_2 = _____ CO_2 + 18 H_2O
5. Cr_2O_3 + _____ Cl_2 + 3 C = _____ $CrCl_3$ + 3 CO
6. _____ C_2H_6 + 7 O_2 = 6 H_2O + _____ CO_2
7. 2 CH_3OH + _____ O_2 = _____ CO_2 + 4 H_2O
8. _____ $(NH_4)_2Cr_2O_7$ = _____ NH_3 + 14 H_2O + 5 Cr_2O_3 + 6 NO
9. _____ NaCl + H_2SO_4 = Na_2SO_4 + _____ HCl
10. 2 $C_5H_{10}O_2(l)$ + _____ $O_2(g)$ = 10 $CO_2(g)$ + _____ $H_2O(g)$
11. CH_4 + _____ O_2 = CO_2 + _____ H_2O
12. Cr_2O_3 + _____ Cl_2 + 3 C = 2 $CrCl_3$ + _____ CO
13. _____ HNO_3 + H_2S = _____ NO_2 + H_2SO_4 + 4 H_2O
14. GaF_3 + _____ Cs = _____ CsF + Ga
15. $C_9H_{18}O$ + _____ O_2 = 9 CO_2 + _____ H_2O
16. 3 Cu + _____ HNO_3 = 3 $Cu(NO_3)_2$ + _____ NO + 4 H_2O
17. _____ Na + 2 H_2O = _____ NaOH + H_2
18. 2 Al + _____ HCl = _____ $AlCl_3$ + 3 H_2
19. 4 NH_3 + _____ O_2 = 4 NO + _____ H_2O
20. _____ $FeCl_2$ + H_2O_2 + 2 HCl = _____ $FeCl_3$ + 2 H_2O

ANSWERS

1. $Al_2S_3 + 6\ H_2O = 2\ Al(OH)_3 + 3\ H_2S$
2. $5\ C_6H_{12}O_2 + 25\ O_2 = 30\ CO_2 + 3\ H_{20}$
3. $S + 6\ HNO_3 = H_2SO_4 + 6\ NO_2 + 2\ H_2O$
4. $2\ CH_3(CH_2)_6CH_3 + 25\ O_2 = 16\ CO_2 + 18\ H_2O$
5. $Cr_2O_3 + 3\ Cl_2 + 3\ C = 2\ CrCl_3 + 3\ CO$
6. $2\ C_2H_6 + 7\ O_2 = 6\ H_2O + 4\ CO_2$
7. $2\ CH_3OH + 3\ O_2 = 2\ CO_2 + 4\ H_2O$
8. $5\ (NH_4)_2Cr_2O_7 = 4\ NH_3 + 14\ H_2O + 5\ Cr_2O_3 + 6\ NO$
9. $2\ NaCl + H_2SO_4 = Na_2SO_4 + 2\ HCl$
10. $2\ C_5H_{10}O_2(l) + 13\ O_2(g) = 10\ CO_2(g) + 10\ H_2O(g)$
11. $CH_4 + 2\ O_2 = CO_2 + 2\ H_2O$
12. $Cr_2O_3 + 3\ Cl_2 + 3\ C = 2\ CrCl_3 + 3\ CO$
13. $8\ HNO_3 + H_2S = 8\ NO_2 + H_2SO_4 + 4\ H_2O$
14. $GaF_3 + 3\ Cs = 3\ CsF + Ga$
15. $C_9H_{18}O + 13\ O_2 = 9\ CO_2 + 9\ H_2O$
16. $3\ Cu + 8\ HNO_3 = 3\ Cu(NO_3)_2 + 2\ NO + 4\ H_2O$
17. $2\ Na + 2\ H_2O = 2\ NaOH + H_2$
18. $2\ Al + 6\ HCl = 2\ AlCl_3 + 3\ H_2$
19. $4\ NH_3 + 5\ O_2 = 4\ NO + 6\ H_2O$
20. $2\ FeCl_2 + H_2O_2 + 2\ HCl = 2\ FeCl_3 + 2\ H_2O$

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