

## Reacciones:

$H_2 + O_2 \rightleftharpoons H_2O$
$N_2 + 3 H_2 \rightleftharpoons 2 NH_3$
$H_2O + Na \rightleftharpoons Na(OH) + H_2$
$2 KClO_3 \rightleftharpoons 2 KCl + 3 O_2$
$BaO_2 + 2 HCl \rightleftharpoons BaCl_2 + H_2O_2$
$H_2SO_4 + NaCl \rightleftharpoons Na_2SO_4 + HCl$
$3 FeS_2 \rightleftharpoons Fe_3S_4 + S_2$
$2 H_2SO_4 + C \rightleftharpoons 2 H_2O + 2 SO_2 + CO_2$
$2 SO_2 + O_2 \rightleftharpoons 2 SO_3$
$2 NaCl \rightleftharpoons 2 Na + Cl_2$
$4 HCl + MnO_2 \rightleftharpoons MnCl_2 + 2 H_2O + Cl_2$
$K_2CO_3 + 2 C \rightleftharpoons 3 CO + 2 K$
$Ag_2SO_4 + 2 NaCl \rightleftharpoons Na_2SO_4 + 2 AgCl$
$NaNO_3 + KCl \rightleftharpoons NaCl + KNO_3$
$Fe_2O_3 + 3 CO \rightleftharpoons 3 CO_2 + 2 Fe$
$Na_2CO_3 + H_2O + CO_2 \rightleftharpoons 2 NaHCO_3$
$4 FeS_2 + 11 O_2 \rightleftharpoons 2 Fe_2O_3 + 8 SO_2$
$Cr_2O_3 + 2 Al \rightleftharpoons Al_2O_3 + 2 Cr$
$3 Ag + 4 HNO_3 \rightleftharpoons NO + 2 H_2O + 3 AgNO_3$
$CuFeS_2 + 3 O_2 \rightleftharpoons 2 SO_2 + CuO + FeO$

## Soluciones:

$2 H_2 + O_2 \rightleftharpoons 2 H_2O$
$N_2 + 3 H_2 \rightleftharpoons 2 NH_3$
$2 H_2O + 2 Na \rightleftharpoons 2 Na(OH) + H_2$
$2 KClO_3 \rightleftharpoons 2 KCl + 3 O_2$
$BaO_2 + 2 HCl \rightleftharpoons BaCl_2 + H_2O_2$
$H_2SO_4 + NaCl \rightleftharpoons Na_2SO_4 + HCl$
$3 FeS_2 \rightleftharpoons Fe_3S_4 + S_2$
$2 H_2SO_4 + C \rightleftharpoons 2 H_2O + 2 SO_2 + CO_2$
$2 SO_2 + O_2 \rightleftharpoons 2 SO_3$
$2 NaCl \rightleftharpoons 2 Na + Cl_2$
$4 HCl + MnO_2 \rightleftharpoons MnCl_2 + 2 H_2O + Cl_2$
$K_2CO_3 + 2 C \rightleftharpoons 3 CO + 2 K$
$Ag_2SO_4 + 2 NaCl \rightleftharpoons Na_2SO_4 + 2 AgCl$
$NaNO_3 + KCl \rightleftharpoons NaCl + KNO_3$
$Fe_2O_3 + 3 CO \rightleftharpoons 3 CO_2 + 2 Fe$
$Na_2CO_3 + H_2O + CO_2 \rightleftharpoons 2 NaHCO_3$
$4 FeS_2 + 11 O_2 \rightleftharpoons 2 Fe_2O_3 + 8 SO_2$
$Cr_2O_3 + 2 Al \rightleftharpoons Al_2O_3 + 2 Cr$
$3 Ag + 4 HNO_3 \rightleftharpoons NO + 2 H_2O + 3 AgNO_3$
$CuFeS_2 + 3 O_2 \rightleftharpoons 2 SO_2 + CuO + FeO$