



Balancing Chemical Equations Worksheet

Convert the following word equations into balanced chemical

1) Hydrogen gas reacts with oxygen gas to form water.

Balanced Equation: _____

2) Sodium metal reacts with chlorine gas to form sodium chloride.

Balanced Equation: _____

3) Iron reacts with copper(II) sulfate to produce iron(II) sulfate and copper metal.

Balanced Equation: _____

Balance the following equations while considering the spatial arrangement of molecules and stereochemical constraints

1) Balance the equation for the combustion of ethene (C_2H_4) while considering its planar structure.

Equation:

2) Balance the equation for the hydrogenation of ethene into ethane, ensuring correct spatial orientation of hydrogen atoms.

Equation: $C_2H_4 + H_2 \rightarrow C_2H_6$