

# Download Pentane Equation

Pentane is an organic compound with the formula  $C_5H_{12}$ —that is, an alkane with five carbon atoms. The term may refer to any of three structural isomers, or to a mixture of them: in the IUPAC nomenclature, however, pentane means exclusively the n-pentane isomer; the other two are called isopentane (methylbutane) and neopentane (dimethylpropane). Pentane is a straight chain alkane consisting of 5 carbon atoms. It has a role as a non-polar solvent and a refrigerant. It is a volatile organic compound and an alkane. In order to balance  $C_5H_{12} + O_2 = CO_2 + H_2O$  you'll need to watch out for two things. First, be sure to count all of C, H, and O atoms on each side of the chemical equation. Pentane reacts with the oxygen in an excess of air to form five molecules of carbon dioxide and six molecules of water from each molecule of pentane; substantial heat is released by the reaction.