



## Complete combustion

Complete combustion occurs when there is a plentiful supply of oxygen. The carbon and hydrogen atoms react with oxygen in an exothermic reaction. Carbon dioxide and water are produced. The maximum amount of energy is given out.

in general:

hydrocarbon + oxygen → carbon dioxide  
+ water

example: propane + oxygen → carbon dioxide + water

$C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$



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