Reactions of Alkanes

combustion

$$\underline{\quad}$$
 $C_3H_8 + \underline{5} O_2 \rightarrow \underline{3} CO_2 + \underline{4} H_2O$

exothermic reaction

combustion with insufficient O₂

$$C_3H_8 + \frac{7/2}{2}O_2 \rightarrow 3CO + 4H_2O$$

improperly vented spaces and cigarettes