Question #59671, Chemistry, General Chemistry

Write an equation including state symbols for the standard enthalpy of combustion of? $CH_{4(g)}$ and $CH_{3}COOH_{(l)}$ In detail please

Answer:

$$\begin{split} & CO_{2(g)} + 2H_2O_{(I)} \to CH_{4(g)} + 2O_{2(g)}; \Delta H = 882.00 \text{ kJ/mol} \\ & C_2H_5OH_{(I)} + O_{2(g)} \to CH_3COOH_{(I)} + H_2O_{(I)}; \Delta H = \ \text{-1371 kJ/mol} \end{split}$$

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