

General Chemistry
Mr. MacGillivray
Quiz #33:
Thermodynamics Calculations

Suppose that 1.00 mol of C_2H_6 (g) reacts completely with O_2 (g) to produce CO_2 (g) and H_2O (g).

Write the balanced chemical equation for this reaction.

Calculate the heat of combustion for this reaction. (That is, calculate $\Delta H^\circ_{\text{rxn}}$.)

Is this reaction exothermic or endothermic?
How do you know?