

(all of 11.3)

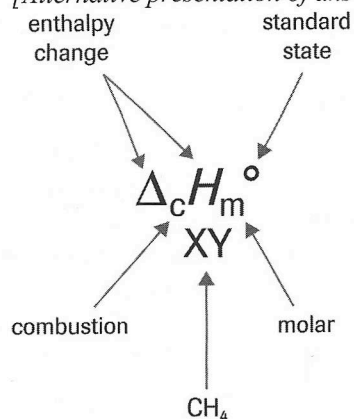
11.3 COMMUNICATING ENTHALPY CHANGES

Section 11.3 Questions

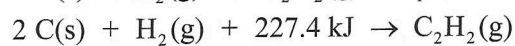
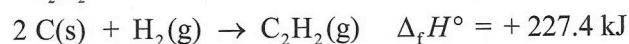
(Page 501)

1. (a) the standard molar enthalpy of combustion for methane gas
 Δ = change, c = combustion, H = enthalpy, m = molar, $^\circ$ = standard conditions

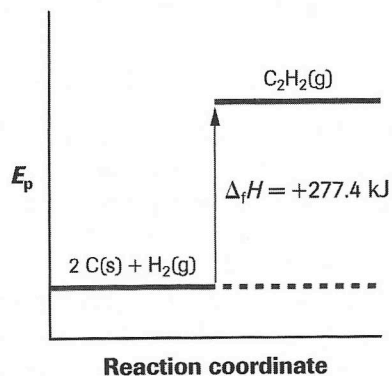
[Alternative presentation of answer:]



- (b) the chemical amount of propane multiplied by the standard molar enthalpy of reaction for propane
(c) the change in thermal energy for water
2. (a) $\Delta_f H_m^\circ = +227.4 \text{ kJ/mol}$



Formation of Ethyne



- (b) $\Delta_{\text{sd}} H_m^\circ = +1675.7 \text{ kJ/mol}$

