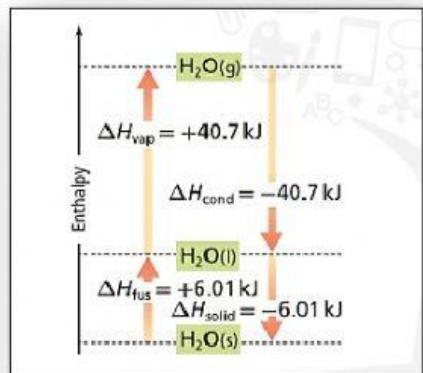


Thermochemical equations

Section 3

Q1 Use information from figure to calculate how much heat is required to vaporize 4.33 mol of water at 100 °C ?



Q2 Choose the correct answer :

A) Number of moles of evaporated ethanol ($\text{C}_2\text{H}_5\text{OH}$), if the amount of required heat to evaporate equal 200.72 KJ.



a) $7.75 \times 10^4 \text{ mol}$ b) 0.192 mol c) 5.20 mol d) $7.75 \times 10^{-4} \text{ mol}$

B) Use the following reaction to calculate amount of heat released from burning 9.01 g of Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) .



a) 280 KJ b) 210 KJ c) 14.0 KJ d) 140 KJ

C) From the figure identify which answer is **NOT** correct .

a) Products have lower energy than the reactants.
 b) $\Delta H = H_c - H_a$
 c) $\Delta H = H_a - H_c$
 d) The reaction is exothermic .

