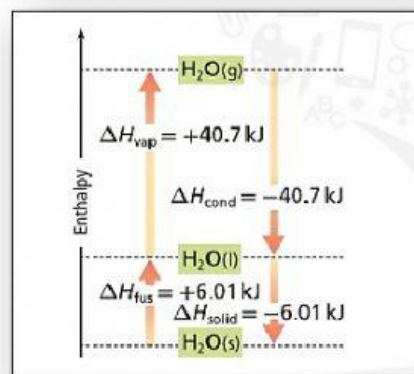


## Thermochemical equations

### 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 ( $C_2H_5OH$ ), if the amount of required heat to evaporate equal 200.72 KJ.



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

**B)** Use the following reaction to calculate amount of heat released from burning 9.01 g of Glucose ( $C_6H_{12}O_6$ ) .



- 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 .

