

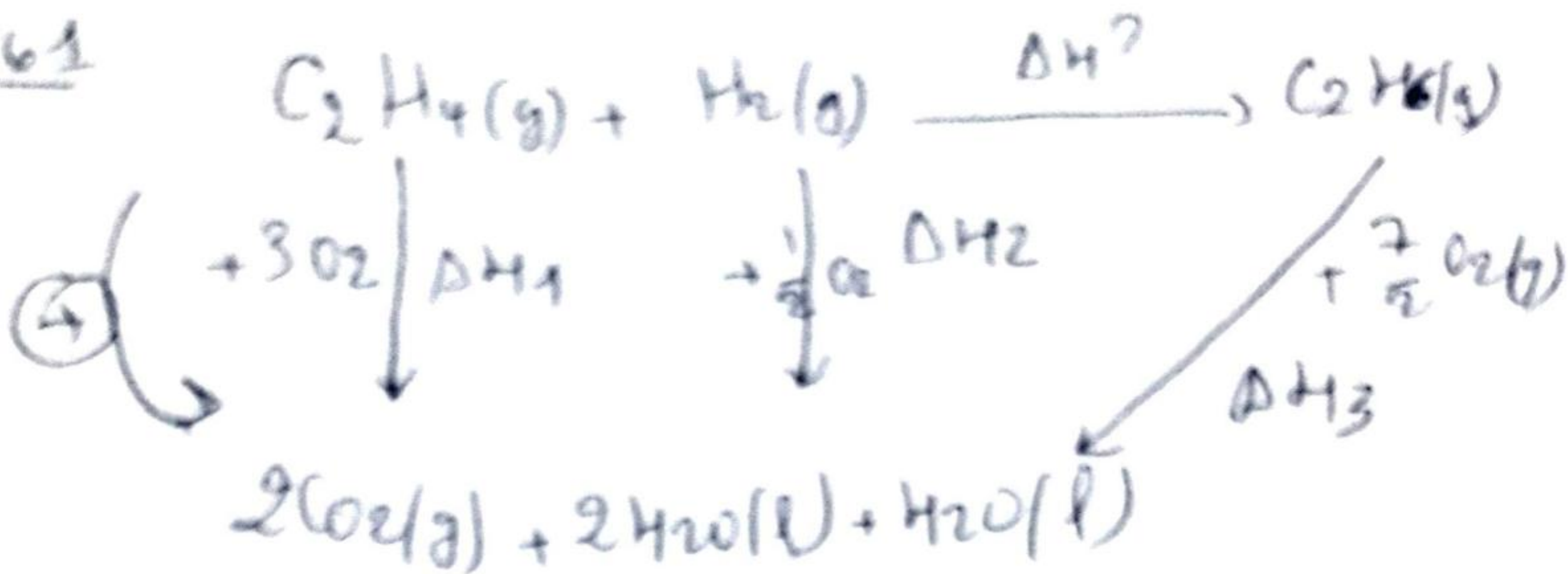
(Correction TD - Serie N° 2

Thermochimie 2019/2020

M2 P - Nodes C121 (Sectional)

Pr. A. A. Hou

Exercice 1
10/



$$\text{Sense } \oplus \Rightarrow \Delta H_1 + \Delta H_2 - \Delta H_3 - \Delta H = 0$$

$$\rightarrow \Delta H = \Delta H_1 + \Delta H_2 - \Delta H_3$$

$$= -337 - 68,3 + 373 = -32,3 \text{ kcal/mol}$$

$$2^{\circ} \Delta H = \Delta H_f^\circ \text{C}_2\text{H}_6 - \cancel{\Delta H_f^\circ \text{H}_2} - \Delta H_f^\circ \text{C}_2\text{H}_4$$

$$\Rightarrow \Delta H_f^\circ \text{C}_2\text{H}_6 = \Delta H + \Delta H_f^\circ \text{C}_2\text{H}_4$$

$$= -32,3 + 8,04 = -24,26 \text{ kcal/mol}$$