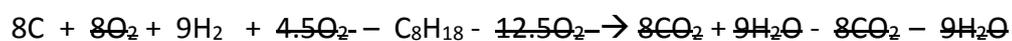
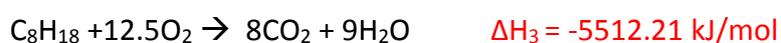


Answer on Question #55507 - Chemistry - General chemistry

Question:

What is the standard enthalpy of formation of this isomer of C₈H₁₈ (g)?

Answer:



$$\Delta H_{f,\text{C}_8\text{H}_{18}} = 8\Delta H_1 + 9\Delta H_2 - \Delta H_3$$

$$\Delta H_{f,\text{C}_8\text{H}_{18}} = 8 \times (-393.5) + 9 \times (-285.8) - (-5512.21) = -207.99 \text{ kJ/mol}$$