

### HEAT SUMMATION 3



$$\begin{aligned}\Delta H^\circ &= [18\Delta H_{\text{CO}_2(\text{g})}^\circ + 17\Delta H_{\text{H}_2\text{O}(\text{l})}^\circ] - [\Delta H_{\text{C}_{18}\text{H}_{34}\text{O}_2(\text{l})}^\circ + \frac{51}{2}\Delta H_{\text{O}_2(\text{g})}^\circ] \\ \Delta H^\circ &= [18(-393.5 \text{ kJ}) + 17(-285.8 \text{ kJ})] - [(-818.81 \text{ kJ}) + \frac{51}{2}(0)] \\ \Delta H^\circ &= -11122.8 \text{ kJ}\end{aligned}$$

