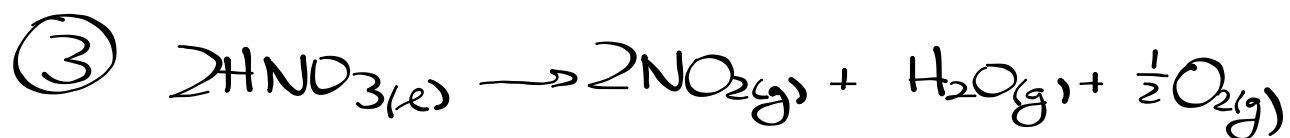


Homework



$$\Delta H_r = \sum n H_{f_p} - \sum n H_{f_r}$$

$$\Delta H_r = \left[(2 \text{ mol}) \left(33.2 \frac{\text{kJ}}{\text{mol}} \right) + (1 \text{ mol}) \left(-241.8 \frac{\text{kJ}}{\text{mol}} \right) + \left(\frac{1}{2} \text{ mol} \right) \left(0 \frac{\text{kJ}}{\text{mol}} \right) \right] - \left[(2 \text{ mol}) \left(-174.1 \frac{\text{kJ}}{\text{mol}} \right) \right]$$

$$\Delta H_r = (-175.4 \text{ kJ}) - (-348.2 \text{ kJ})$$

$$\Delta H_r = 172.8 \text{ kJ}$$

$$\Delta H_r = n H_r$$

$$H_r = \frac{\Delta H_r}{n}$$

Worksheet