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M2 Abfre Sp1 Fre Tz0 Xx Mark Scheme

AN Whitehead



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$$2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g}) \quad \Delta H = 220 \text{ kJ}$$

$$\text{H}_2(\text{g}) + \text{C}_2\text{H}_6(\text{g}) \rightarrow \Delta H = 94.5 \text{ kJ}$$

$$\text{H}_2\text{O}(\text{g}) + \text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \Delta H = 71.2 \text{ kJ}$$

$$\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{g}) \quad \Delta H = 283 \text{ kJ}$$

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$$\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l}) \quad \Delta H = 1411 \text{ kJ}$$

$$\text{C}_2\text{H}_6(\text{g}) + 7 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l}) \quad \Delta H = 1560 \text{ kJ}$$

$$\text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta H = 285 \text{ kJ}$$

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$$\text{C}_2\text{H}_4(\text{g}) + 2 \text{ NO}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g}) + 2 \text{ O}_2(\text{g})$$

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