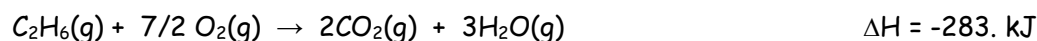


Hess's Law Worksheet - More Practice

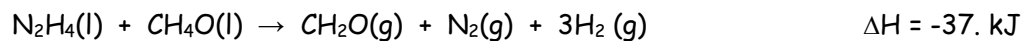
1. Calculate ΔH for the reaction: $\text{PCl}_5(\text{g}) \rightarrow \text{PCl}_3(\text{g}) + \text{Cl}_2(\text{g})$, from the following Data.



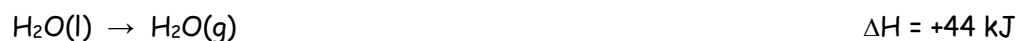
2. Calculate ΔH for the reaction $2\text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + 5/2\text{O}_2(\text{g})$, from the following Data.



3. Find ΔH° for the reaction $\text{N}_2\text{H}_4(\text{l}) + \text{H}_2(\text{g}) \rightarrow 2\text{NH}_3(\text{g})$, using the following thermochemical data.



4. Calculate ΔH for the reaction $\text{H}_2\text{SO}_4(\text{l}) \rightarrow \text{SO}_3(\text{g}) + \text{H}_2\text{O}(\text{g})$, given:



5. Calculate ΔH for the reaction $\text{N}_2(\text{g}) + 2\text{O}_2(\text{g}) \rightarrow 2\text{NO}_2(\text{g})$ from the data.

