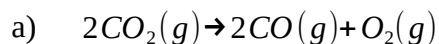


## WW5: Calculating an Entropy Change

March 16 2021

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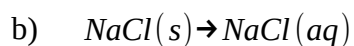
Use absolute entropies from Table 5-1 to calculate the entropy change for each of these processes, thereby verifying the predictions made in Conceptual Exercise 5-4.



$$2(213.74) \rightarrow 2(197.674) + 205.138$$

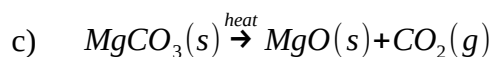
$$427.48 \rightarrow 600.486$$

$$600.486 - 427.48 = 173$$



$$72.12 \rightarrow 115.5$$

$$115.5 - 72.12 = 43.38$$



$$65.7 \rightarrow 26.94 + 213.74$$

$$65.7 \rightarrow 240.68$$

$$240.68 - 65.7 = 174.98$$