## Answer on Question #77046 - Chemistry - Physical Chemistry

## Question:

Which of the following reactions has the largest positive value of  $\Delta S$  per mole of O2?

A) 
$$2C(s) + O2(g) \rightarrow 2CO(g)$$

B) 
$$2NO(g) + O2(g) \rightarrow 2NO2(g)$$

C) 
$$2Mg(s) + O2(g) \rightarrow MgO(s)$$

D) 
$$2H2(g) + O2(g) \rightarrow 2H2O(g)$$

E) 
$$C(s) + O2(g) \rightarrow CO2(g)$$

## **Solution:**

E) 
$$C(s) + O2(g) \rightarrow CO2(g)$$

**Answer:** E)  $C(s) + O2(g) \rightarrow CO2(g)$ 

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