Answer on question #69848

The decomposition of crystalline N2O5 [N2O5(s)-->2NO2(g) + 1/2O2(g)] is an example of a reaction that is thermodynamically favored even though it absorbs heat. At 25C we have the following values for the standard state enthalpy and free energy changes of the reaction: dH=+109.6kJ/mol , dG= -30.5kJ/mol.

Solution:

 $^{1}/_{2}$ $\frac{J_{mol}}{M} \quad 470 \left(\frac{J_{mol}}{K} \right);$ J/mol $\sum n(produ$ $4\left(\frac{kJ}{mol}\right)$ $\left(\frac{kJ_{mol}}{mol} \right)$ $470 \left(\frac{J}{MOl} K \right)$ Answer:

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