## Answer on Question#65036 – Chemistry – General chemistry

**Question:** For a certain process at 27°C, DG = +210.6 kJ and DH = -168.2 kJ. What is the entropy change for this process at this temperature? Express your answer in the form, DS = \_\_\_\_\_ J/K.

## **Solution:**

$$\Delta G = \Delta H - T \Delta S$$

$$\Delta S = \frac{\Delta H - \Delta G}{T} = \frac{-168.2kJ - 210.6kJ}{300.15\;K} = -1.262\frac{kJ}{K} = -1262\frac{J}{K}$$

Answer:  $-1262 \frac{J}{K}$ .

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