## Answer on Question #85873 – Chemistry – Inorganic Chemistry

If a system has  $3.00 \times 10^2$  kcal of work done to it, and releases  $5.00 \times 10^2$  kJ of heat into its surroundings, what is the change in internal energy of the system?

## **Solution:**

 $3.00 \times 10^2$  kcal  $\times$  4.19 kJ/kcal =  $1.26 \times 10^3$  kJ Change in internal energy =  $1.26 \times 10^3$  kJ -  $5.00 \times 10^2$  kJ =  $+7.57 \times 10^2$  kJ

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