Answer on Question #49860, Chemistry, Other

Task:

Calculate w, and determine whether work is done by or on the system when 435 J of heat is absorbed and DeltaU=710 J.

Answer:

$$\Delta U = q + w$$
$$w = \Delta U - q$$

Heat absorbed by the system (endothermic process) – q is positive w = 710 - 435 = 275 J

Work done on a system by surroundings (for example, a volume decrease) – w is positive

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