

Answer on Question #77038 - Chemistry - Physical Chemistry

Question:

For a reaction system which is at equilibrium, which of the following must always be true?

A) $q = 0$

B) $\Delta H = 0$

C) $\Delta S = 0$

D) $\Delta U = 0$

E) $\Delta G = 0$

Solution:

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

If $\Delta G = 0$ = The reaction will be at equilibrium;

So correct answer – E).

Answer: E) $\Delta G = 0$.

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