

Answer on Question #77041- Chemistry - Physical Chemistry

Question:

Which of the following statements is false?

- A) The change in entropy in a system depends on the initial and final states of the system and the path taken from one state to the other.
- B) Any irreversible process results in an overall increase in entropy.
- C) The total entropy of the universe increases in any spontaneous process.
- D) Entropy increases with the number of microstates of the system.

Solution:

The change in entropy in a system depends on the initial and final states of the system and the path taken from one state to the other.

Answer: A) The change in entropy in a system depends on the initial and final states of the system and the path taken from one state to the other.

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