

## Entropy Change

A system undergoes a process from A to state B and back to A. The process from A to B is reversible and the process back from B to A is irreversible.

How will the entropy change for state A?

Answer: After the process the entropy of state A will be the same.

Explanation: The entropy of state A will not change. Entropy is a state property and it has a fixed value at a fixed state. It only depends on the properties of the state (e.g. temperature, pressure, phase), however during the process entropy can be generated.