

10. It is found experimentally that 540 kcal are needed to transform 1.0 kg of water at 100.0°C to steam at 100.0°C. What is the change in entropy of 1.0 kg of water evaporating at 100.0°C? (Specify whether the change in entropy is an increase, +, or a decrease, −.)

- A. + 5.4 kcal/K
- B. − 5.4 kcal/K
- C. + 1.4 kcal/K

- D. − 1.4 kcal/K
- E. 0 kcal/K
- F. Not close to any of the above

Ans. _____