

## ACS Physical Chemistry Thermochemistry Study Guide Verified Questions And Answers

What is the third law of thermodynamics? ☒ The entropy of a perfect crystal is zero.

What is the second law of thermodynamics? ☒ As a whole, the universe always tends towards increasing entropy.

What is the relationship between number of microstates and entropy? ☒ More microstates = higher entropy

What is the relationship between temperature and entropy? ☒ Temperature increases, entropy increases (direct)

What is the relationship between atomic weight and entropy? ☒ Heavier = increased entropy (direct)

What happens to entropy when a substance is dissolved in another? ☒ Entropy increases

What is the relationship between moles of gas and entropy? ☒ When moles of gas increase, entropy increases (direct)

What is the relationship between free energy, enthalpy, and entropy?  
☒  $\Delta G(\text{system}) = \Delta H(\text{system}) - T\Delta S(\text{system})$

What does change in G measure? ☒ The extent of the spontaneity of a process, and the useful energy available from it

What is the relationship between work and spontaneous processes? ☒ Spontaneous processes produce work

What is the relationship between work and non-spontaneous processes? ☒ Non-spontaneous processes require work

What does -w mean? ☒ Work is being produced - spontaneous

What does a positive sign for w mean? ☒ Work is required - non-spontaneous

Can a change be spontaneous in both directions? ☒ No

What is an extensive property? ☒ Value depends on the amount of substance

# Chemistry Thermochemistry Study Guide Answers

**Ian Pickup**



## **Chemistry Thermochemistry Study Guide Answers:**

## Reviewing **Chemistry Thermochemistry Study Guide Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Chemistry Thermochemistry Study Guide Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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