

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

Thermochemistry Question Answer Guide

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