

Chapter 19 Practice Problem Set

- Determine whether each of the following process is spontaneous or non-spontaneous.
 - Spontaneous** / nonspontaneous dissolving table salt in hot soup
 - Spontaneous / **nonspontaneous** ball rolling up A Mountain
 - Spontaneous** / nonspontaneous opening a perfume bottle to allow the fragrance to spread through the room
 - Spontaneous / **nonspontaneous** separating helium and neon from a mixture of gases
 - Spontaneous / **nonspontaneous** water solidifying to ice at 3 °C
- Which one of the following processes produces a decrease in the entropy of the system?
 - boiling water to form steam
 - dissolution of solid KCl in water
 - mixing of two gases into one container
 - freezing water to form ice**
 - melting ice to form water
- Which of these species has the largest entropy (S°) at 25°C?

A) CO(g) **B) CH₄(g)** C) NaCl(s) D) H₂O(l) E) Fe(s)
- For each of the following pairs, identify which one has a greater number of microstates (W):
 - CH₄ or **C₂H₆**
 - H₂O(g)** or H₂O(l)
 - 1 mol O₂ occupying 1L at 25°C or **1 mol O₂ occupying 2L at 25°C**
- Predict whether each of the following reactions would have a positive or negative entropy change:
 - $\Delta S > 0$** $S(g) + O_2(g) \rightarrow SO_2(g)$
 - $\Delta S < 0$** $H_2O(l) \rightarrow H_2O(g)$
 - $\Delta S < 0$** $PCl_3(l) + Cl_2(l) \rightarrow PCl_5(l)$
 - $\Delta S > 0$** $2Na(s) + 2H_2O(l) \rightarrow 2NaOH(aq) + H_2(g)$
 - $\Delta S > 0$** $N_2(g) \rightarrow 2N(g)$

Metals Section 1 Ch 19 Answers

Scott C. Dulebohn



Metals Section 1 Ch 19 Answers:

Adopting the Tune of Expression: An Emotional Symphony within **Metals Section 1 Ch 19 Answers**

In some sort of taken by screens and the ceaseless chatter of instant conversation, the melodic elegance and mental symphony produced by the written word usually fade into the background, eclipsed by the persistent noise and distractions that permeate our lives. However, located within the pages of **Metals Section 1 Ch 19 Answers** a stunning fictional prize overflowing with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this interesting masterpiece conducts readers on a mental journey, skillfully unraveling the hidden melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of the moving evaluation, we shall examine the book's main harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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