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CHAPTER 23. Chemical Thermodynamics

which is the ideal gas equation of state. N These are the same expressions as obtained in the grand canonical ensemble (Problem 3-8) and in the canonical ensemble (see chapter 5). This is due to the equivalence of ensembles in the thermodynamic limit, i.e. N is very large such that fluctuations are negligible.

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CHAPTER 23. Chemical Thermodynamics 23-1. (a) $H_2O(l) \rightarrow H_2O(s)$ (0 C, 1 bar) Because ice is more ordered structurally than liquid water, ice has less positional disorder than liquid water. Thus, when compared at the same temperature and pressure, the entropy of solid water is less than the entropy of liquid water, and so $\Delta S_{sys} < 0$.

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Abstract: Recognizes that modern physical chemistry is based on quantum mechanics and that it makes pedagogical sense to begin with the atomic and molecular perspective and use it to build a firm understanding of macroscopic phenomena.

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