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# Chapter 7

# Equilibria for Multiple Component Systems

- 7.2. With only a single component and phase, if only Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> were present in our system, we would have C-P+2=1-1+2=2 degrees of freedom.
- 7.4. For a single-component system, there will never be negative degrees of freedom. The maximum number of phases that can exist in equilibrium is three, so the Gibbs phase rule would yield 1 3 + 2 = 0 degrees of freedom (like might occur at the triple point). For a two-component system, the maximum number of phases that can exist in equilibrium is four. There will never be negative degrees of freedom.
- 7.6. In this reaction, there are only three independent components (the amount of the fourth can be determined from the equilibrium constant) and 3 phases, two solids and a gas mixture. Therefore, there are 3 3 + 2 = 2 degrees of freedom.
- 7.8. For water:  $n = \frac{pV}{RT} = \frac{(23.76 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 6.39 \times 10^{-3} \text{ mol of water is needed to ensure that there is a liquid and gas phase. This equals 0.115 grams. For methanol:$

$$n = \frac{pV}{RT} = \frac{(125.0 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 3.36 \times 10^{-2} \text{ mol of methanol is}$$
needed to ensure that there is a liquid and gas phase. This equals 1.08 grams.

7.10. Since, according to equation 7.11,  $a_i = \frac{p_i}{p_i}$ , and since  $p_i^* = 760$  torr, we can calculate  $a_i$ :

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J Rink

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