

Physical Chemistry 2nd Edition Ball

Solutions Manual

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Chapter 7

Equilibria for Multiple Component Systems

- 7.2. With only a single component and phase, if only $\text{Fe}_2(\text{SO}_4)_3$ 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: $n = \frac{pV}{RT} = \frac{(23.76 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 6.39 \times 10^{-3}$ mol of water is needed to ensure that there is a liquid and gas phase. This equals 0.115 grams.
For methanol:
- $$n = \frac{pV}{RT} = \frac{(125.0 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 3.36 \times 10^{-2}$$
- 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 $p_i^* = 760 \text{ torr}$, we can calculate a_i :

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Rachel S Tattersall



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Tiddalik the Frog. 1: Tiddalik the Frog was thirsty, thirsty Song: 'Tiddalik the Frog was thirsty, thirsty'. Sing the song with Andy and Rebecca. In addition to the full vocal version and backing track versions of the ... Tiddalik the Frog This offers a karaoke-style video of the song, with the lyrics appearing on screen. Each song is approximately 2 to 3 minutes long. The song - backing track ... TIDDALIK THE FROG Tiddalik was a large frog, the largest frog ever known. SONG: No. 1. ONCE LONG ... MR WOMBAT (Spoken over the music of the verses.) Gather round my friends. I ... Froggy Fun - Music Connections Recommends... Nov 1, 2007 — A little pig makes up a new song, and can't find anyone to share it with, until he meets a frog who likes to sing and make up songs too. Infant Music at Home 17 Learn to sing a song about Tiddalik the Frog with BBC

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