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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: $n = \frac{pV}{RT} = \frac{(23.76 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 6.39 \times 10^{-3} \text{ mol}$ 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 $p_i^* = 760 \text{ torr}$, we can calculate a_i :

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John R. Gordon, Raymond A. Serway



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web jan 22 2021 korelasi rank spearman disebut juga rank order correlation atau rank difference correlation korelasi ini mengukur hubungan antara dua variabel yang digambarkan menurut fungsi monotonik umumnya digunakan untuk data dengan skala ordinal jika skalanya rasio atau interval maka diubah terlebih dahulu menjadi ordinal

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web nov 19 2020 the null hypothesis is that the spearman correlation coefficient ρ is 0 a ρ of 0 means that the ranks of one variable do not covary with the ranks of the other variable in other words as the ranks of one variable increase the ranks of the other variable do not increase or decrease

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web apr 27 2021 korelasi spearman rho adalah metode statistik yang digunakan untuk menguji dugaan tentang adanya hubungan antara variabel apabila datanya berskala ordinal rangking atau berskala rasio interval namun tidak memenuhi asumsi normalitas

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web in statistics spearman s rank correlation coefficient or spearman s ρ named after charles spearman and often denoted by the greek letter rho or ρ is a nonparametric measure of rank correlation statistical dependence between