

# 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:  
$$n = \frac{PV}{RT} = \frac{(125.0 \text{ torr})(5.00 \text{ L})}{(0.08205 \text{ L} \cdot \text{atm/mol} \cdot \text{K})(298.15 \text{ K})} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 3.36 \times 10^{-3}$$
 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,  $\alpha_i = \frac{P_i}{P_{i^*}}$ , and since  $P_{i^*} = 760 \text{ torr}$ , we can calculate  $\alpha_i$ :

# Ball Solution Manual

**Patricia I. Hooper**

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web this method can be used to determine the distance between any two points in a coordinate plane and is summarized in the distance formula  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$  the point that is at the same distance from two points a x 1 y 1 and b x 2 y 2 on a line is called the midpoint you

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serpentine any of a group of hydrous magnesium rich silicate minerals the composition of these common rock forming minerals approximates  $Mg_3Si_2O_5(OH)_4$  serpentine generally occurs in three polymorphs chrysotile a fibrous variety used as asbestos antigorite a variety occurring in either

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Oct 6 2023 the terminology serpentine is a rock made of the minerals serpentinite and it is a clue that you are looking very clearly at rocks that have been beneath the earth serpentine is found when ultramafic rocks come closer to the surface of

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serpentine is the name given to a subgroup of magnesium asbestos and silicate minerals formed in serpentinite rock it commonly crystallizes in the forms of masses fibrous grains and flat like plates the colors can vary from light and dark greens to brown yellow white and grey

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detailed description properties locality information guide about the serpentine mineral group including antigorite chrysotile asbestos minerals net complete information guide to rocks minerals gemstones

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serpentine is a group of minerals that are usually green in color it is used as gemstone architectural stone carving material and source of asbestos serpentinite is a rock composed mainly of serpentine minerals

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nov 3 2022 three types of serpentine minerals occur naturally antigorite lizardite and chrysotile the latter also known as a form of asbestos

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a snake moves by curving and winding along the ground roads through the pyrenees the mountains that separate spain from france tend to be serpentine curving back and forth on

tureng serpentine türkçe İngilizce sözlük - Sep 19 2023

yılan gibi kıvrılarak gerçekleştirilen bir grup dansı İngilizce türkçe online sözlük tureng kelime ve terimleri çevir ve farklı aksanlarda sesli dinleme serpentine yılantaşı serpentine belt serpentin kayış serpentine ne demek

*serpentine wikipedia* - May 15 2023

serpentine curve a mathematical curve serpentine a type of riding figure science and nature serpentine subgroup a group of minerals serpentinite a type of rock serpentine soil soil derived from serpentinite serpentine alkaloid a chemical compound serpentine receptor a protein in cellular membranes serpentine powder a type of

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jan 1 2013 the basic serpentine structure is extremely simple in spite of the simple crystal chemical features involving the nearest neighbours namely the coordination polyhedra complexity arises