

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

# Ball Solution Manual

**Patricia I. Hooper**



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web what are the coordinates of the midpoint  $m = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$  compare the  $x$  coordinates of  $a$  and  $b$  and compare the  $y$  coordinates of  $a$  and  $b$  how are the coordinates of the midpoint  $m$  related to the coordinates of  $a$  and  $b$  making sense of problems

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web what is the midpoint formula the formula gives the midpoint of the points  $(x_1, y_1)$  and  $(x_2, y_2)$  in the coordinate plane  $\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

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web the formula for finding out the median is the sum of those two numbers divided by two ie  $\frac{a + b}{2}$  where  $a$  and  $b$  are numbers for whom you want to find the median here's how it works suppose you have a line segment on the number line with start point 3 and end point 5 the midpoint of the segment is 4

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web 21 endpoint  $(1, 9)$  midpoint  $(9, 10)$  22 endpoint  $(2, 5)$  midpoint  $(5, 1)$  23 endpoint  $(5, 2)$  midpoint  $(10, 2)$  24 endpoint  $(9, 10)$  midpoint  $(4, 8)$  25 endpoint  $(9, 7)$  midpoint  $(10, 3)$  26 endpoint  $(6, 4)$  midpoint  $(4, 8)$

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web may 28 2023 example 11 2 use the distance formula to find the distance between the points  $(5, 3)$  and  $(7, 2)$  answer write the distance formula  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$  label the points  $x_1 = 5, y_1 = 3, x_2 = 7, y_2 = 2$  and substitute  $d$

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web you can use the midpoint and distance formulas to find midpoint and distance as long as you know the coordinates of two points what is distance and midpoint the distance between two points is the length of the line segment connecting them

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web 1 use the distance formula 2 use the midpoint formula examples 1 find the distance between the points 3 7 and 4 10 2 determine whether the triangle formed by points a 2 2 b 2 1 and c 5 4 is a right triangle 3 find the midpoint of the line segment joining the points p1 6 3 and p2 4 2 teaching notes

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web the blue text midpoint midpoint of the points green d  $x_1$   $y_1$  and green d  $x_2$   $y_2$  is given by the following formula 
$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$
 in this article we are going to derive this formula

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$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
 example find distance between points a 3 4 and b 1 3 solution in this example we have  $x_1 = 3$   $y_1 = 4$   $x_2 = 1$   $y_2 = 3$  so we have

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web 1 answer write the formula 
$$M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$
 substitute 2 3 for  $x_1$   $y_1$  and 2 2 for  $x_2$   $y_2$  
$$M = \left( \frac{2 + 2}{2}, \frac{3 + 2}{2} \right) = (2, 2.5)$$
 the midpoint of the line segment ab is m 0 1 2

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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 is a large mineral group with hydrous magnesium iron silicate that forms from the serpentinization of rocks like peridotite and olivine as a silicate crystal it forms many varieties of green brown blue red black white pink orange and yellow colors with a greasy silky soapy or flaky texture

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serpentinization is a hydration and metamorphic transformation of ferromagnesian minerals such as olivine and pyroxene in mafic and ultramafic rock to produce serpentinite 1 minerals formed by serpentinization include the serpentine group minerals antigorite lizardite chrysotile brucite talc ni fe alloys and magnetite

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of characteristic of or resembling a serpent as in form or movement having a winding course as a road sinuous shrewd wily or cunning noun a device on a harquebus lock for holding the

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serpentinite is a rock composed predominantly of one or more serpentine group minerals the name originating from the similarity of the texture of the rock to that of the skin of a snake serpentinite has been called serpentine or serpentine rock particularly in older geological texts and in wider cultural settings

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the serpentine crystal stone protects the heart with its powerful snake medicine a strong force that helps give you an overall energy detox like a refreshing and nutritious green drink for the soul the serpentine crystal is like spring cleaning for the soul

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serpentine any of a group of hydrous magnesium rich silicate minerals the composition of these common rock forming minerals approximates  $\text{mg}_3\text{si}_2\text{o}_5\text{oh}_4$  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

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

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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