

Physical Chemistry 2nd Edition Ball

Solutions Manual

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Chapter 6

Equilibria for Single Component Systems

- 6.2. When freeze-drying a complex mixture like coffee, not just water but other volatile components can be removed from the mixture. The net result is that when water is added back to the dried coffee (but none of the other volatile components), the coffee probably will not taste the same.
- 6.4. Solid and liquid phases of a substance can exist in the same closed, adiabatic system if the conditions of the system (in particular, the temperature and the pressure) are such that those conditions correspond to the melting or freezing point of the substance. At the melting point (or freezing point), both the solid and liquid phases of the substance can co-exist in an equilibrium state.
- 6.6. (a) The equilibrium shifts to the liquid phase.
(b) The equilibrium shifts to the gas phase.
(c) The equilibrium shifts to the solid phase.
(d) The system remains in the solid phase (unless there is a stable allotrope or crystal form of the substance that is more stable at lower temperature. Metallic tin is an example where this occurs.)
- 6.8. The algebraically equivalent way is to simply move the negative sign to the other side of the equation: $-dm_{\text{liquid}} = dm_{\text{solid}}$. The point is that either side of the equation can have the negative sign.

Physical Chemistry David Ball Solutions Manual

J Spring



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Student Solutions Manual for Physical Chemistry David Ball, 2002-09 The manual consists of complete solutions to all odd end of chapter exercises and problems

Student Solutions Manual, Physical Chemistry Second Edition, David W. Ball Jörg C. Woehl, 2015

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