Ch 13
Sec 13.4

HW: Sec Asses 21-25 Rev Con 48,49,92,95

obj: Interpret a phase diagram for a substance.

# Phase Diagram

- A graph that shows how pressure and temp. affects the melting & boiling pt of a substance.
  * It indicates the pressures and temperatures where solids, liquids and gases exist @ equilibrium.

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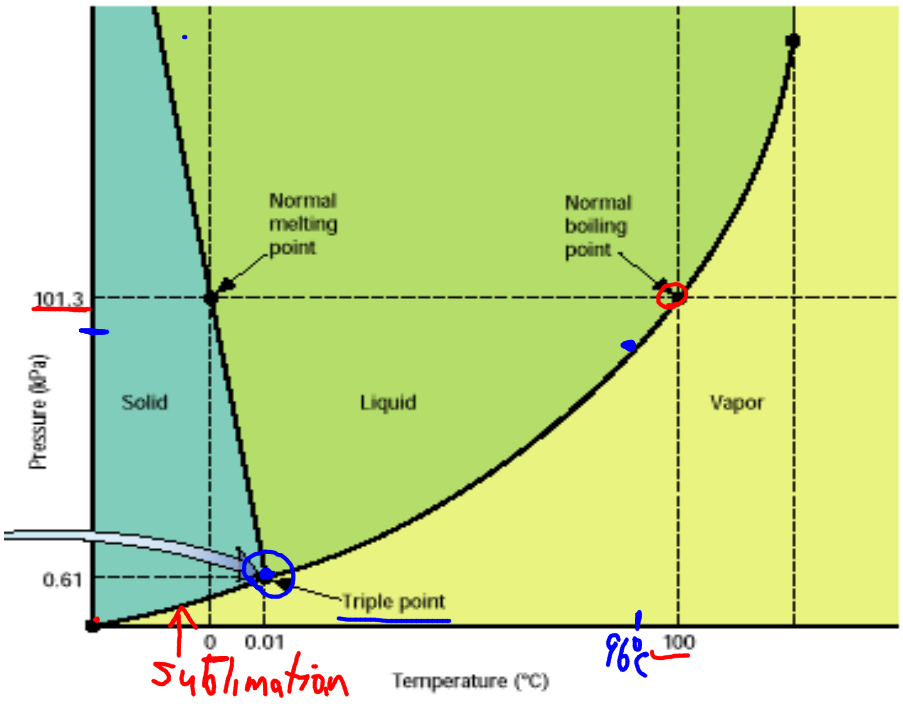


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- Triple point - The pressure and temp where a substance exists as a solid, Liquid & gas @ equilibrium.

- Phase diagrams are unique to the substance. (Physical Properties)

- Some substances do not change from a solid to a Liquid.
  * They change directly from a solid to a gas.
  * This process is called sublimation.

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* Sublimation - The phase change from a solid to a gas w/o going through the Liquid phase.

* Examples: Dry Ice (Solid $CO_2$)
  Iodine ($I_2$)

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