Chemistry 141 Name

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Quiz 10 (20 points) November 19, 2012

All work must be shown to receive credit.

R=0.0821 L atm/mol K = 62.4 L torr/mol K = 8.31 J/mol K

1. (20 points) Carbon tetrachloride, CCl4, has a vapor pressure of 213 torr at 40oC and 836 torr at 80oC.
   1. What is the heat of vaporization for carbon tetrachloride?

P1 = 213 torr T1 = 40oC = 313 K

P2 = 836 torr T2 = 80oK = 353 K

* 1. What is the normal boiling point of carbon tetrachloride?
  2. What is the vapor pressure of carbon tetrachloride at 60oC?