Exam 1
McCord Classes  ·  Spring 2016
(unicodes: 49330 and 49335)

REMEMBER: Bubble in ALL Bubblesheet information!
This includes your first and last name, your UTEID, and your version number.

Please refer to the back of the bubble sheet for more info.

\[ R = 8.314 \text{ J/mol-K} \]
\[ R = 0.08206 \text{ L atm/mol-K} \]
\[ R = 62.36 \text{ L torr/mol-K} \]
\[ 1 \text{ atm} = 1.01325 \times 10^5 \text{ Pa} \]
\[ 1 \text{ atm} = 760 \text{ torr} \]
\[ 1 \text{ atm} = 14.7 \text{ psi} \]

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\[ PV = nRT \]
\[ q = m \cdot C_s \cdot \Delta T \quad q = m \cdot \Delta H_{\text{change}} \]
\[ \ln \left( \frac{P_2}{P_1} \right) = \frac{\Delta H_{\text{vap}}}{R} \left( \frac{1}{T_1} - \frac{1}{T_2} \right) \]
\[ \Delta H_{\text{solution}} = \Delta H_{\text{lattice}} + \Delta H_{\text{hydration}} \]
\[ P_A = \chi_A \cdot P_A^c \quad C_{\text{gas}} = k_H P_{\text{gas}} \]
\[ \Delta T_f = i \cdot K_f \cdot m \quad \Delta T_b = i \cdot K_b \cdot m \]
\[ \Pi = i \cdot MRT \]
\[ G = H - TS \quad \Delta G = \Delta H - T \Delta S \]

**NOTE:** Please keep your Exam copy intact (all pages still stapled). You must turn in your exam copy, plus your bubble sheet, and any scratch paper.