12.114 $\ln \frac{P_2}{P_1} = \frac{\Delta H_{vap}}{R}\left(\frac{1}{T_1} - \frac{1}{T_2}\right)$

$$\frac{P_2}{P_1} = \exp\left[\frac{\Delta H_{vap}}{R}\left(\frac{1}{T_1} - \frac{1}{T_2}\right)\right]$$

$$P_2 = P_1 \exp\left[\frac{\Delta H_{vap}}{R}\left(\frac{1}{T_1} - \frac{1}{T_2}\right)\right]$$

$$P_2 = (760 \text{ Torr}) \exp\left[\left(\frac{26.7 \cancel{\text{kJ}}}{\cancel{\text{mol}}}\right)\left(\frac{10^3 \text{ J}}{\cancel{\text{kJ}}}\right)\left(\frac{\cancel{\text{mol K}}}{8.3145 \cancel{\text{J}}}\right)\left(\frac{1}{(46.5+273.15)\cancel{\text{K}}} - \frac{1}{(28+273.15)\cancel{\text{K}}}\right)\right]$$

$\boxed{P_2 = 410 \text{ Torr}}$ (no pts off for sig figs)