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$f = \frac{P_{\text{vap}}}{P} = \frac{V_{\text{vap}}}{V} = \frac{n_{\text{vap}}}{n_{\text{total}}}$
 $3 \times 10^{-5} \text{ (bar)} = \frac{m}{3 \text{ mol}} \left(\frac{1}{T} - \frac{1}{T_{\text{ref}}}\right) P_{\text{ref}}$
 $P = 1 \times 10^{-3} - (10 - x) \times 10^6$ volume taken up by liquid
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