$$C_s = \frac{\frac{L_v}{M}\rho\left(24.055\times10^6\right)}{V_m Y \frac{293}{T_m}\frac{P_m}{760}1000} = 6.24\times10^4 \frac{L_v \rho T_m}{M V_m Y P_m} \qquad \text{Eq. 18-4}$$