$$T_{\text{dew}} = \frac{2.0798233 \cdot 10^{2} - 2.0156028 \cdot 10^{1} \cdot \ln\left(p_{\text{H2O}}\right) + 4.6778925 \cdot 10^{-1} \cdot \ln\left(p_{\text{H2O}}\right)^{2} - 9.2288067 \cdot 10^{-6} \cdot \ln\left(p_{\text{H2O}}\right)^{3}}{1 - 1.3319669 \cdot 10^{-1} \cdot \ln\left(p_{\text{H2O}}\right) + 5.6577518 \cdot 10^{-3} \cdot \ln\left(p_{\text{H2O}}\right)^{2} - 7.5172865 \cdot 10^{-5} \cdot \ln\left(p_{\text{H2O}}\right)^{3}}$$

Eq. 1065.645-5