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1A.1 Estimation of dense-gas viscosity

a. Table E.1 gives $T_c = 126.2$ K, $p_c = 33.5$ atm, and $\rho_c = 180 \times 10^{-3}$ g/cm³ for NS. The reduced conditions for the viscosity estimation are then:

$$P_r = P/P_c = (1000 + 14.7)/33.5 \times 14.7 = 2.06$$

$$T_r = T/T_c = (273.15 + (68 - 32)/1.8)/126.2 = 2.32$$

At this reduced state, Fig. 1.3-1 gives $\mu = 1.15$. Hence, the predicted viscosity is $\mu = \mu^* \rho_c = 1.15 \times 180 \times 10^{-3} = 2.07 \times 10^{-2}$ g/cm s. This result is then converted into the requested units by use of Table F.3-4:

$$\mu = 2.07 \times 10^{-2} \text{ g/cm s} \times 6.7197 \times 10^{-2} = 1.4 \times 10^{-3} \text{ lb}_m/\text{s-ft}$$

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Guy Broze



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Solution's Manual - Transport Phenomena Fundamentals Second Edition Taylor & Francis Group,2010-05-21

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