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[Mean Free Path Equation](#)

$$\therefore \lambda = \frac{m}{\sqrt{2} \pi d^2 \rho} \quad (9.27)$$

Also we know that  $PV = NkT$

$$P = \frac{N}{V} kT = nkT$$

$$\therefore n = \frac{P}{kT}$$

Substituting  $n = \frac{P}{kT}$  in equation (9.26), we get

$$\lambda = \frac{kT}{\sqrt{2} \pi d^2 P} \quad (9.28)$$

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