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Mean Free Path Equation

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

Also we know that PV = NkT

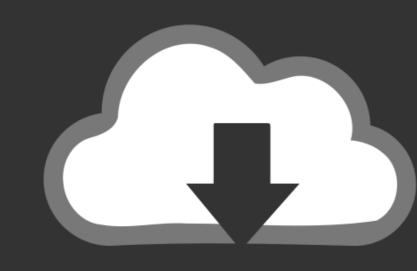
$$P = \frac{N}{V}kT = nkT$$

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

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

$$\lambda = \frac{kT}{\sqrt{2\pi}d^2P} \tag{9.28}$$

Mean Free Path Equation



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