

Given, $k_B = 1-38 \times 10^{-23} \text{ J/K}$; V = 0.1 volt;

average translational K = 0 M molecules $\frac{3}{2} \times \frac{3}{8} \times \frac{1}{2} = eV$ $\frac{3}{2} \times \frac{1\cdot38 \times 10^{-23} \times T}{2} = 1.6 \times 10^{-19} \times 0.1$ $\frac{7}{2} \times \frac{7}{2} \times \frac{7}{2$