

The curve in Figure 16.11 of the text shows how the vibrational heat capacity depends on temperature. Note that even when the temperature is only slightly above the vibrational temperature, the heat capacity is close to its equipartition value.

The total heat capacity of a molecular substance is the sum of each contribution (Figure 16.12 of the text). When equipartition is valid (when the temperature is well above the characteristic temperature of the mode $T \gg \theta_M$) we can estimate the heat capacity by counting the numbers of modes that are active. In gases, all three translational modes are always active and contribute $\frac{3}{2}R$ to the molar heat capacity. If we denote the number of active rotational modes by ν_R^\ddagger (so for most molecules at normal temperatures $\nu_R^\ddagger = 2$ for linear molecules, and 3 for non-linear molecules), then

$$C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \dots$$

The equipartition value $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R$ is reached when the temperature is high enough so that $T \gg \theta_M$ for all the modes. However, if the temperature is lower, then the modes with higher characteristic temperatures are not active, and the heat capacity is lower than the equipartition value. The number of active modes is ν_R^\ddagger for all temperatures in the range $\theta_1 < T < \theta_2$, and $\nu_R^\ddagger + 1$ for all temperatures in the range $\theta_2 < T < \theta_3$, and so on. The average heat capacity is $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \frac{1}{2}R \frac{\theta_1}{T} + \frac{1}{2}R \frac{\theta_2}{T} + \dots$ in the temperature range $\theta_1 < T < \theta_2$, and $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger + 1}{2}R + \frac{1}{2}R \frac{\theta_2}{T} + \frac{1}{2}R \frac{\theta_3}{T} + \dots$ in the temperature range $\theta_2 < T < \theta_3$.

Solutions to exercises

16.1 The thermal energy is given by $\epsilon = \frac{1}{2}m\langle v^2 \rangle$ and the average thermal energy is $\epsilon = \frac{1}{2}m\langle v^2 \rangle = \frac{1}{2}m \frac{3k_B T}{m} = \frac{3}{2}k_B T$.

$$\langle v^2 \rangle = \frac{2\epsilon}{m} = \frac{2 \times \frac{3}{2}k_B T}{m} = \frac{3k_B T}{m}$$

and the root-mean-square speed is $v_{rms} = \sqrt{\langle v^2 \rangle} = \sqrt{\frac{3k_B T}{m}}$.

$$v_{rms} = \sqrt{\frac{3 \times 1.38 \times 10^{-23} \text{ J K}^{-1} \times 300 \text{ K}}{28.01 \times 10^{-3} \text{ kg mol}^{-1} / 6.022 \times 10^{23} \text{ mol}^{-1}}} = 517 \text{ m s}^{-1}$$

16.2 The thermal energy is

$$\epsilon = \frac{1}{2}m\langle v^2 \rangle = \frac{1}{2}m \frac{3k_B T}{m} = \frac{3}{2}k_B T$$

16.3 $C_{V,m} = \frac{3}{2}R + \frac{\nu_R^\ddagger}{2}R + \dots$

and the equipartition value is

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