

86. Its initial volume is $5^3 = 125 \text{ cm}^3$, and using Table 19-2, Eq. 19-10 and Eq. 19-11, we find

$$\Delta V = (125 \text{ m}^3) (3 \times 23 \times 10^{-6} / \text{C}^\circ) (50 \text{ C}^\circ) = 0.43 \text{ cm}^3 .$$