

Convert the density of osmium from  $\text{g}/\text{cm}^3$  to  $\text{kg}/\text{m}^3$ .

$$\rho = \frac{22.59 \text{ g}}{\text{cm}^3} \times \frac{1 \text{ kg}}{1000 \text{ g}} \times \frac{100^3 \text{ cm}^3}{1^3 \text{ m}^3}$$

$$\rho = 2.259 \times 10^4 \text{ kg}/\text{m}^3$$