

Problema 131: Realiza los siguientes cambios de unidades:

a) 1 g/mL (a kg/m<sup>3</sup>) =

$$1 \text{ g/mL} = 1 \frac{\text{g}}{\text{cm}^3} \cdot \frac{1 \text{ kg}}{1000\text{g}} \cdot \frac{10^6 \text{ cm}^3}{\text{m}^3} = \underline{\underline{1000 \text{ kg/m}^3}}$$

b) 13600 kg/m<sup>3</sup> (a g/mL) =

$$13600 \text{ kg/m}^3 = 13600 \frac{\text{kg}}{\text{m}^3} \cdot \frac{1000\text{g}}{1\text{kg}} \cdot \frac{1\text{m}^3}{10^6 \text{ cm}^3} = \underline{\underline{13,6 \text{ g/mL}}}$$

c) 19,28 g/cm<sup>3</sup> (a kg/m<sup>3</sup>) =

$$19,28 \text{ g/cm}^3 = 19,28 \frac{\text{g}}{\text{cm}^3} \cdot \frac{1 \text{ kg}}{1000\text{g}} \cdot \frac{10^6 \text{ cm}^3}{\text{m}^3} = \underline{\underline{19280 \text{ kg/m}^3}}$$

d) 1,2 g/dm<sup>3</sup> (a kg/m<sup>3</sup>) =

$$1,2 \text{ g/dm}^3 = 1,2 \frac{\text{g}}{\text{dm}^3} \cdot \frac{1 \text{ kg}}{1000\text{g}} \cdot \frac{10^3 \text{ dm}^3}{\text{m}^3} = \underline{\underline{1,2 \text{ kg/m}^3}}$$