

Exercice 1

$$C_m(\text{ sucre}) = \frac{m(\text{ sucre})}{V_{\text{solution}}} = \frac{5,0\text{g}}{250 \text{ mL}} = \frac{5,0\text{g}}{0,250 \text{ L}} = 20 \text{ g/L}$$

Exercice 2

$$1/ C_m(\text{p. actif}) = \frac{m(\text{p. actif})}{V_{\text{med.}}} = \frac{0,21 \text{ g}}{100 \text{ mL}} = \frac{0,21 \text{ g}}{0,100 \text{ L}} = 2,1 \text{ g/L}$$

$$2/ \rho(\text{med.}) = \frac{m(\text{med.})}{V_{\text{med.}}} = \frac{113 \text{ g}}{100 \text{ mL}} = \frac{113 \text{ g}}{0,100 \text{ L}} = 1130 \text{ g/L}$$

Exercice 3

$$1/ m(\text{ChlorP}) = C_m(\text{ChlorP}) \times V_{\text{sol}} = 4,2 \text{ g/L} \times 200 \text{ mL} = 4,2 \text{ g/L} \times 0,200 \text{ L} = 0,84 \text{ g}$$

$$2/ V_{\text{solution}} = \frac{m(\text{ ChlorP})}{C_m(\text{ChlorP})} = \frac{1,0 \text{ kg}}{4,2 \text{ g/L}} = \frac{1000 \text{ g}}{4,2 \text{ g/L}} = 238 \text{ L}$$

Exercice 4

$$C_m(\text{permP}) = \frac{m(\text{permP})}{V_{\text{solution}}} = \frac{1 \text{ mg}}{100 \text{ mL}} = \frac{0,001 \text{ g}}{0,100 \text{ L}} = 0,01 \text{ g/L}$$

Exercice 5

$$m(\text{gluc.}) = C_m(\text{gluc.}) \times V_{\text{sol}} = 2,5 \text{ g/L} \times 100 \text{ mL} = 2,5 \text{ g/L} \times 0,100 \text{ L} = 0,25 \text{ g}$$

Exercice 6

$$1/ m(\text{sel}) = C_m(\text{sel}) \times V_{\text{sol}} = 9,8 \text{ g/L} \times 380 \text{ mL} = 9,8 \text{ g/L} \times 0,380 \text{ L} = 3,7 \text{ g}$$

$$2/ \rho(\text{soupe}) = \frac{m(\text{soupe})}{V_{\text{med.}}} = \frac{408 \text{ g}}{380 \text{ mL}} = \frac{0,408 \text{ kg}}{0,380 \text{ L}} = 1,07 \text{ kg/L}$$