

Elementary Principles of Chemical Processes Solutions Manual 3rd Update Edition Edition Richard M. Felder

CHAPTER TWO

2.2 (a) $\frac{1.25 \text{ kg}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) = \frac{20.8 \text{ kg}}{1 \text{ hr}} \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) = 20,800 \text{ g/hr}$

(b) $\frac{0.5 \text{ kg} \cdot \text{hr}^{-1}}{1 \text{ hr}} \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) \left(\frac{1 \text{ min}}{60 \text{ sec}} \right) = \frac{8.33 \text{ g}}{1 \text{ sec}} \left(\frac{1 \text{ min}}{60 \text{ sec}} \right) = 0.139 \text{ g/min}$

(c) $\frac{0.04 \text{ mol}}{1 \text{ kg}} \left(\frac{1 \text{ g}}{1000 \text{ kg}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) = \frac{6.67 \times 10^{-5} \text{ mol}}{1 \text{ min}} \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) = 0.0667 \text{ g/min}$

2.3 (a) $\frac{100 \text{ mol}}{1 \text{ hr}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ kg}}{1000 \text{ mol}} \right) = \frac{0.167 \text{ kg}}{1 \text{ min}}$

(b) $\frac{100 \text{ kg}}{1 \text{ hr}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ mol}}{100 \text{ kg}} \right) = \frac{0.167 \text{ mol}}{1 \text{ min}}$

(c) $\frac{1.27 \times 10^{-5} \text{ mol}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{3.53 \times 10^{-7} \text{ mol}}{1 \text{ min}} \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) = 0.353 \text{ g/min}$

2.4 Assume that a golf ball contains the same volume of space as a golf ball (2 in. \times 2 in. \times 2 in. inches). If we assume a golf ball diameter is 1.5 in. (3.81 cm), then

$V_{\text{ball}} = \frac{4}{3} \pi r^3 = \frac{4}{3} \pi (0.75 \text{ in})^3 = 1.41 \text{ in}^3 = 2.31 \times 10^{-4} \text{ m}^3$

The volume would vary by an order of magnitude or more, depending on the assumptions made.

2.5 (a) Right: $\frac{1 \text{ mol}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1000 \text{ g}}{1 \text{ kg}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

(b) Wrong: Since the units do not cancel, it is wrong.

$\frac{1000 \text{ g}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

2.6 (a) $\frac{1000 \text{ g}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

(b) $\frac{1000 \text{ g}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

Total G mass: $\frac{1000 \text{ g}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

Total G mass: $\frac{1000 \text{ g}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

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Repeat the first three: $\frac{1000 \text{ g}}{1 \text{ kg}} \left(\frac{1 \text{ min}}{60 \text{ min}} \right) \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = \frac{0.278 \text{ g}}{1 \text{ min}} \left(\frac{1 \text{ hr}}{60 \text{ min}} \right) = 0.00463 \text{ g/min}$

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J Elliott



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