

When  $k_1 = k_2$  the (Counterintuitive?) result is that the same size of MFR and PFR will maximize the concentration of R (the intermediate product):  $C_{R, \max}$  is higher in the PFR, but the volumes are the same!

My solution (partly graphical) showed that  $V_{PFR} \approx 153 \text{ L}$  while  $V_{MFR} \approx 167 \text{ L}$ . In fact, they should be identical! <sup>(?)</sup>

Here is the justification (after Kelly Caputo pointed it out to me... Thanks, Kelly!!!):

$$\tau_{MFR, \text{opt}} = \frac{1}{\sqrt{R_1 R_2}} = \underline{10 \text{ min (OK)}} \quad \frac{V_{PFR} = V_{MFR} = 167 \text{ L}}{\nearrow}$$

(eq. 8.15)

For the PFR, we use L'Hôpital's theorem

$$\tau_{PFR, \text{opt}} = \lim_{R_2/k_1 \rightarrow 1} \frac{\ln\left(\frac{R_2}{R_1}\right)}{R_2 - R_1} = \frac{\lim\left(1 + \ln \frac{R_2}{R_1}\right)}{\lim(R_2)} = \frac{1}{R_2} = \underline{10 \text{ min}}$$

So, the important comment here, in agreement with Levenspiel's statement on p.176, is NOT ONLY that the MFR is "not much worse than" the PFR, But that in terms of activity - even though conversion is lower - the MFR does not have the typical size disadvantage as well. (vs. selectivity)

Please add this page to your [HW #6] Solution package!

# Prentice Hall Chemistry Chapter 8 Assessment Answers

**Michal Rosen-Zvi**



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