

1.1 Find the rate of reaction defined as

$$r_{O_2} = \frac{\text{mol } O_2 \text{ used}}{\text{sec.} \cdot m^3 \text{ of tank}}$$

Evaluate terms

$$\bar{t} = \frac{V}{\nu} \text{ or } V = \bar{t}\nu$$

or (Volume of treatment tanks) = $\left(\frac{1}{3} \text{ day}\right)\left(32000 \frac{m^3}{\text{day}}\right) = 10667 m^3$

O_2 used

$$(200 \frac{\text{mg}}{\text{lit}}) \left(\frac{1 \text{ gm}}{1000 \text{ mg}}\right) \left(\frac{\text{mol}}{32 \text{ gm}}\right) \left(\frac{1000 \text{ lit}}{m^3}\right) \left(\frac{32000 m^3}{\text{day}}\right) = 2 \times 10^5 \frac{\text{mol } O_2}{\text{day}}$$

Thus the rate of reaction

$$\begin{aligned} \frac{2.0 \times 10^5 \text{ mol } O_2 / \text{day}}{10667 m^3} &= 18.75 \text{ mol/m}^3 \cdot \text{day} \\ &= 2.17 \times 10^{-4} \text{ mol/m}^3 \cdot \text{s} \end{aligned}$$

1.2 Find $-r'_{C_{20}H_{42}}$ and $-r''_{C_{20}H_{42}}$ --- evaluate terms

$$V_{cat} = \frac{50000 \text{ kg}}{300 \text{ kg/m}^3} = 62.5 \text{ m}^3 \text{ of catalyst}$$

$$W_{cat} = 50000 \text{ kg}$$

$$m_w_{C_{20}H_{42}} = [20(12) + 42(1)] \frac{1}{1000} = 0.282 \text{ kg/mol}$$

$$F_{feed} = (6000 \text{ m}^3/\text{day})(900 \text{ kg/m}^3) = 5400000 \text{ kg/day}$$

So $\frac{dN_{C_{20}H_{42}}}{dt} = \left(\frac{5400000 \text{ kg/day}}{0.282 \text{ kg/day}}\right) \left(\frac{\text{day}}{24(3600) \text{ s}}\right)(0.6) = 135 \text{ mol reacted/s}$

Thus the rate of disappearance of $C_{20}H_{42}$

$$-r' = \frac{1}{W_{cat}} \frac{dN}{dt} = \frac{1}{50000} (135) = 0.0027 \text{ mol/kg cat \cdot s}$$

$$-r'' = \frac{1}{V_{cat}} \frac{dN}{dt} = \frac{1}{62.5} (135) = 2.16 \text{ mol/m}^3 \text{ cat \cdot s}$$

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Nigerian Journal of Research and Production, 2007 *Aplikasi Spreadsheet untuk Perhitungan Teknik Kimia Sederhana* Rama Oktavian, A.S. Dwi Saptati Nur Hidayati, 2017-08-01 Buku ini membahas tentang aplikasi spreadsheet yang disediakan oleh Microsoft Excel 2013 untuk membantu menyelesaikan perhitungan yang terkait dengan permasalahan di bidang Teknik Kimia. Pembahasan di dalam buku ini dibagi menjadi 5 bab yaitu pada Bab 1 dibahas mengenai aplikasi spreadsheet yang digunakan di perhitungan Teknik Kimia dan dasar Bab 2 menjelaskan tentang prinsip prinsip dasar perhitungan neraca massa di Teknik Kimia dan aplikasi spreadsheet untuk perhitungan neraca massa Bab 3 berisi tentang prinsip prinsip dasar perhitungan neraca energi di Teknik Kimia dan aplikasi spreadsheet untuk perhitungan neraca energi pada sistem tanpa reaksi dan dengan reaksi Bab 4 menjelaskan tentang prinsip prinsip dasar termodinamika teknik kimia istilah termodinamika properti termodinamika persamaan keadaan dan kesetimbangan fasa serta aplikasi spreadsheet yang digunakan untuk perhitungan properti termodinamika persamaan keadaan dan kesetimbangan fasa Bab 5

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