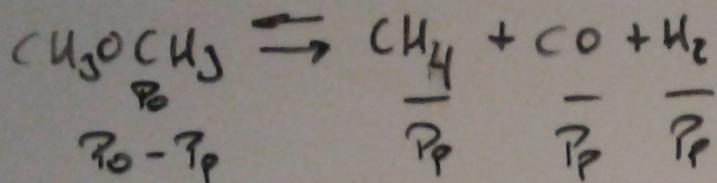


SIGMA

$$T = 700^\circ\text{C}$$

$$r(27 \text{ min}) = 2P_0$$

$$v = kc \quad \left| \quad -\frac{dc}{dt} = kc \rightarrow -\ln \frac{c}{c_0} = kT$$



$$P = P_0 + 2P_p \quad \left| \quad P_p = \frac{P_0}{2}\right.$$

$$r(27 \text{ min}) = 2P_0$$

$$-\ln \frac{c}{c_0} = -\ln \frac{P_p}{P_0} = -\ln \frac{P_0}{2P_0} = \ln 2$$

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$$\ln 2 = kT \rightarrow k = \frac{\ln 2}{27} = 0,028 \text{ min}^{-1}$$