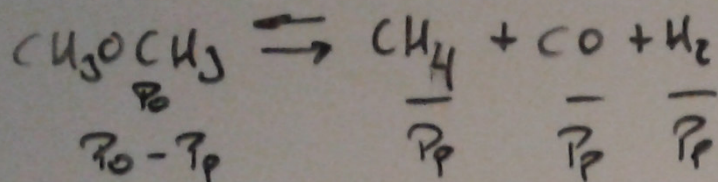


SIGMA

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

$$P(25 \text{ min}) = 2P_0$$

$$V = KC \quad \left| \quad -\frac{dC}{dt} = KC \rightarrow -\ln \frac{C}{C_0} = KT \right.$$



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

$$P(25 \text{ min}) = 2P_0$$

$$-\ln \frac{C}{C_0} = -\ln \frac{P_f}{P_0} = -\ln \frac{P_0}{2P_0} = \ln 2$$

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$$\ln 2 = KT \rightarrow K = \frac{\ln 2}{25} = 0,028 \text{ min}^{-1}$$