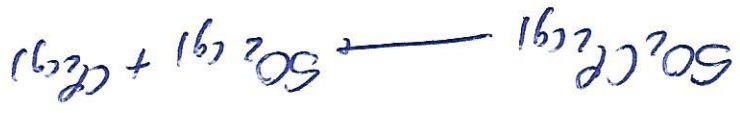


Anestesia

Valeriana 200L



T = 600K  
1ª ordem  
t = 10,3 min = 618s

$$v = - \frac{d[SO_2 C_2 H_5]}{dt} = k[SO_2 C_2 H_5]$$

$$k[SO_2 C_2 H_5]_0 = k t \Rightarrow \int \frac{d[SO_2 C_2 H_5]}{[SO_2 C_2 H_5]} = - \int k dt$$

$$[SO_2 C_2 H_5]_0 = 0,195 [SO_2 C_2 H_5]_0$$

$$k = 8,1299 \cdot 10^{-5} s^{-1}$$

Tempo de semirreacção:  $t_{1/2} = \frac{\ln 2}{k}$

$$k = - \ln 2 \cdot \frac{1}{t_{1/2}}$$

$$t_{1/2} = \frac{\ln 2}{k} = 8,138,935$$

$$k = \frac{e^{-E_a/RT}}{2 \cdot 10^{12} s^{-1}}$$

$$E_a = 184,72 kJ$$