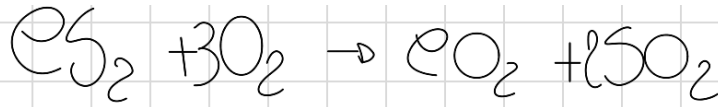


Senza Titolo



IN	x	y	/	/
RE	-x	-3x	+x	+2x
EQ	0	y-3x	x	2x

$$P^{eq} = P_{O_2}^{eq} + P_{CO_2}^{eq} + P_{SO_2}^{eq}$$

$$2,00 = y - 3x + x + 2x$$

$$y = 2,00 \text{ atm}$$

$$P^{in} = x + y$$

$$2,50 = x + 2,00$$

$$x = 0,50$$

$$P_{O_2}^{eq} = 2 - 3(0,50) = 0,50$$

$$P_{CO_2}^{eq} = 0,50$$

$$P_{SO_2}^{eq} = 0,50(2) = 1,00$$

$$P_{in}^{in} = \frac{MM \cdot P_{tot}^{in}}{P \cdot V} = 3,75 \text{ g/l}$$

$$X_{O_2} = \frac{m_{O_2}}{m_{tot}} = \frac{P_{O_2}}{P_{tot}} = 0,8 \quad P.M. = 96 \text{ g/mol}$$

$$X_{CS_2} = \frac{m_{CS_2}}{m_{tot}} = \frac{P_{CS_2}}{P_{tot}} = 0,20 \quad P.M. = 76,1 \text{ g/mol}$$

$$MM = (96 \cdot 0,8) + (76,1 \cdot 0,20) = 92,028$$

$$T = 100 + 273 = 373 \text{ K}$$