

Black board method




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Black board method

$\text{CH}_3\text{-CH}_2\text{-CHO} \xrightarrow{h\nu} \text{CH}_3\text{-CH}_3 + \text{CO}$

$\phi = 0.54$

Energy absorbed = 15000 erg/mol

$\lambda = 3020 \text{ \AA} = 3020 \times 10^{-8} \text{ cm}$

$\phi = \frac{\text{No. of moles reacted}}{\text{TNQ}}$

No. of moles = $\phi \times \text{TNQ}$

$\text{TNQ} = \frac{\text{energy absorbed in erg} \times \lambda}{hc}$

$= \frac{15000 \times 3020 \times 10^{-8}}{6.626 \times 10^{-27} \times 3 \times 10^{10}}$

$= \frac{15 \times 3020 \times 10^{-5}}{6.626 \times 3 \times 10^{-17}}$

$= \frac{45300 \times 10^{-5} \times 10^{17}}{19.878}$

$= 2278.90 \times 10^{12}$

$= 2.28 \times 10^{15}$

Samsung Triple camera
 Shot with my Galaxy M30 by kk




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