

May 1-8:05 AM

⑬ $t_{1/2} = 28.8 \text{ yrs}$ $K = \frac{0.693}{t_{1/2}} = \boxed{0.0241 \text{ yr}^{-1}}$

$\ln A_t = 1$ $\ln A_t = -Kt + \ln A_0$

$\ln A_0 = 10.3$ $\ln 1 = -0.0241(t) + \ln 10.3$

96.77 yr

May 1-8:19 AM

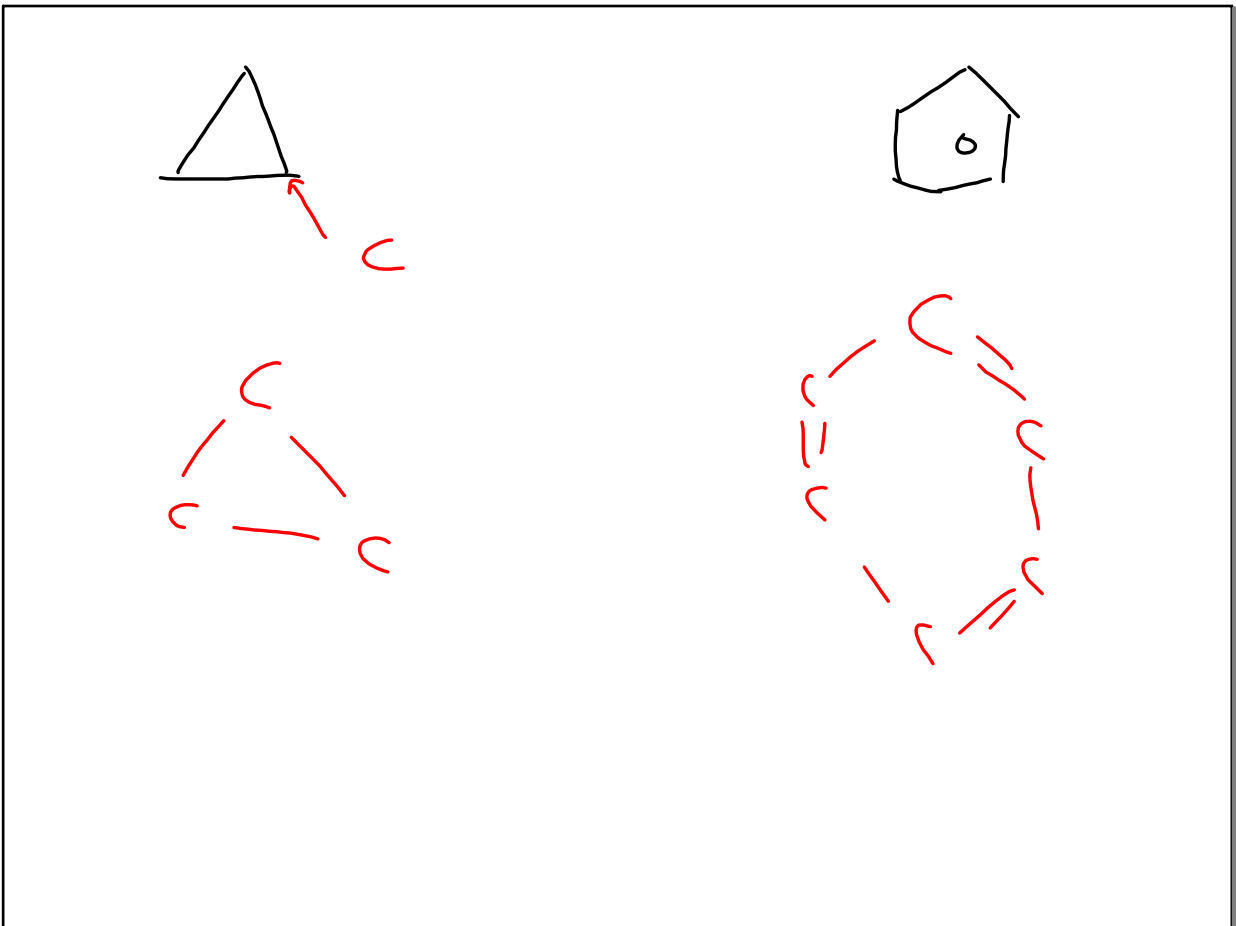
(16) 234.9934 React

| | | | |
|---|-------------|---|-------|
| - | 89.8864 | } | Prod. |
| - | 143.8816 | | |
| - | 1.0087 | | |
| - | 4 (0.00055) | | |

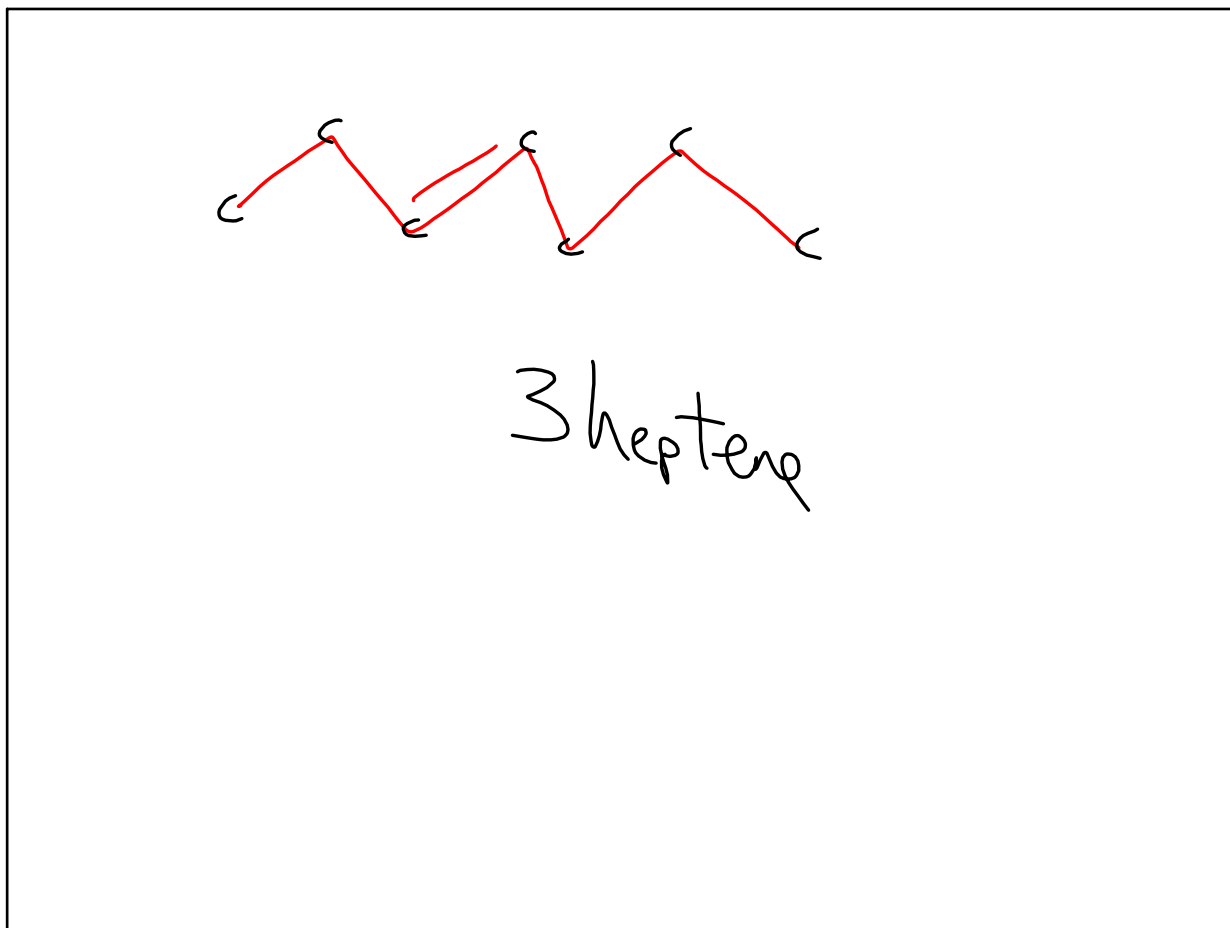
$\Delta m_{ss} = \frac{0.2145 \text{ amu}}{1} \times \frac{931 \text{ MeV}}{1 \text{ amu}} = 199.6995 \text{ MeV}$

$E = mc^2$
↑
 Δm_{ss}

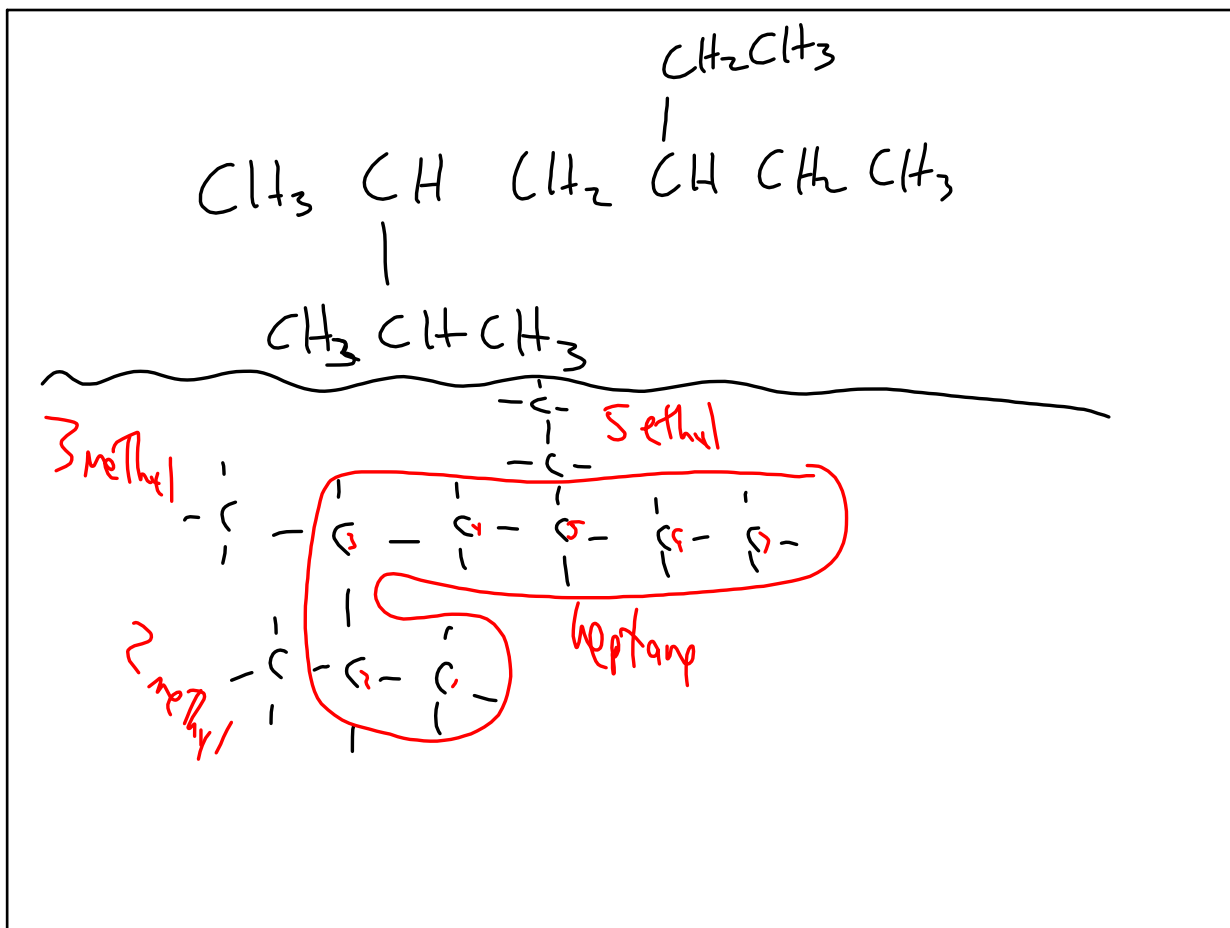
May 1-8:24 AM



May 1-8:29 AM

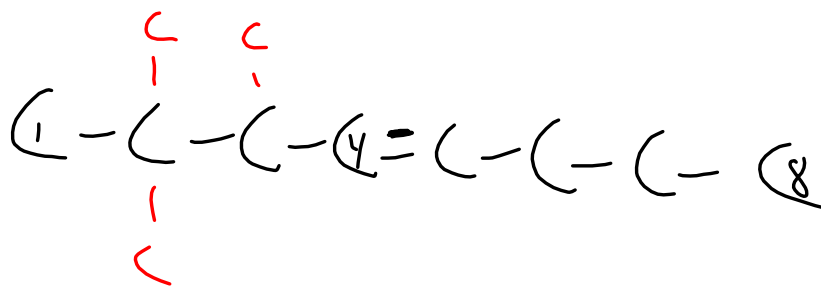


May 1-8:30 AM



May 1-8:33 AM

(31) 2,2,3-trimethyl 4-octene



May 1-8:38 AM

(EC) $k = \frac{0.693}{12.3} = 0.056345^{-}$

$$A_0 = 5.55$$

$$A_t = ? \quad t = 50$$

$$\ln A_t = -(0.0563)(50) + \ln 5.55$$

$$0.33247 \text{ dpm}$$

May 1-8:41 AM