·Ασκηση 22.8.

A: $CH_2 = CH_2$ B: $CH_3-\underset{\underset{Cl}{|}}{CH_2}$ Γ: CH_3-CH_2-CN

Δ: CH_3CH_2COOH E: $CH_3\underset{\underset{OH}{|}}{CH_2}$ Z: $CH_3CH_2COOCH_2CH_3$

·Ασκηση 22.9.

$$\underset{(\Delta)}{C_vH_{2v+1}OH} \xrightarrow{+SOCl_2} \underset{(E)}{C_vH_{2v+1}Cl} \xrightarrow[\text{αιθ.}]{+Mg} \underset{(Z)}{C_vH_{2v+1}MgCl} \xrightarrow{CH_2=O} \dots \longrightarrow \underset{(\Gamma)}{\underset{\underset{OH}{|}}{CH_2}\,C_vH_{2v+1}}$$

$$\underset{(A)}{C_5H_{10}O_2} + H_2O \overset{H^+}{\rightleftharpoons} \underset{(B)}{C_kH_{2k+1}COOH} + \underset{(\Gamma)}{C_vH_{2v+1}\underset{\underset{OH}{|}}{CH_2}}$$

$$Mr_B = Mr_\Gamma \Rightarrow 12k + 2k+1 + 12 + 32 + 1 = 12v + 2v+1 + 12 + 19$$

$$\Rightarrow 14k + 46 = 14v + 32$$

$$\Rightarrow 14v - 14k = 14 \Rightarrow \underline{v-k=1} \quad (1)$$

A: $CH_3COOCH_2CH_2CH_3$ B: CH_3COOH Γ: $CH_3CH_2CH_2OH$

Δ: CH_3CH_2OH E: CH_3CH_2Cl Z: CH_3CH_2MgCl