Цепочки по теме «Спирты и фенол»

СН₄ СИНТЕЗ-ГАЗ
$$\longrightarrow$$
 СН₃ОН $\xrightarrow{Ag, t^{\circ}}$ X₁ \longrightarrow СС₂Н₂ \longrightarrow СС₆Н₆ \longrightarrow Х₂ \longrightarrow фенол $\xrightarrow{X_1}$...

Пропен
$$\xrightarrow{\text{Cl}_2, 550^{\circ}\text{C}}$$
 $X_1 \xrightarrow{\text{NaOH, H}_2\text{O}} X_2 \xrightarrow{\text{KMnO}_4, H}_2\text{O, 0}^{\circ}$ $X_3 \xrightarrow{\text{CH}_3\text{COOH}_{(M36.)}} X_4$

$$C_{6}H_{6} \rightarrow C_{6}H_{5}CI \xrightarrow{NaOH, p, t^{\circ}} X_{2} \xrightarrow{CO_{2}, H_{2}O} X_{3}$$

$$X_{1} \xrightarrow{H_{2}, KaT.} C_{2}H_{5}OH \xrightarrow{X_{3}, H_{3}PO_{4}} C_{12}H_{18}O$$

$$C_{3}H_{8}O \longleftarrow X_{1} \xrightarrow{HCI} X_{2} \xrightarrow{KMnO_{4}, H_{2}SO_{4}, t^{\circ}} C_{2}H_{4}O_{2} \xrightarrow{X_{2}} X_{5}$$

$$\uparrow \qquad \qquad \uparrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$

$$(8) \quad C_{2}H_{4} \qquad X_{2} \longrightarrow (C_{3}COOH, 1:1) \times X_{4}$$

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CH₂-CH-CH₃
$$\xrightarrow{\text{HCI}}$$
 X₁ \longrightarrow пропен $\xrightarrow{\text{H}_2\text{O}, \text{H}^+}$ X₂ $\xrightarrow{\text{C}_6\text{H}_5\text{COOH}}$ X₃ OH OH