

ROADMAP PROBLEM: 12 SOLUTION

A Glucose

B n-Hexane

C Benzene

Е

(D.D.T.)
$$CCl_3 - C - H$$
 % of Cl

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$$CCl_3 - C - H$$
 % of $Cl \approx 50\%$

H Ph - CH = CH - COOH

I Ph - CH - CH - COOH

 $J Ph - C \equiv C - H$

 $K \qquad \begin{array}{c} O \\ II \\ Ph - C - CH_3 \end{array}$



$$P \qquad \stackrel{OH}{\underset{Br}{\bigvee}} Br$$

$$Q$$
 Br Br Br

$$S \qquad \bigcirc OH \\ C - O - CH_3$$

$$\begin{array}{c} O \\ O \\ O \\ -C \\ -CH_3 \end{array}$$

$$X \qquad \bigcirc \stackrel{NH_2}{\bigcirc}$$

$$Y \qquad { \bigodot}^{N_2^{\oplus} B F_4^-}$$

$$z \qquad \bigcap^{F}$$

Extra question answer

- **1.** If E.W.G. present on benzene ring, then ozonolysis of benzene is not performed.
- **2.** DDT is more volatile .