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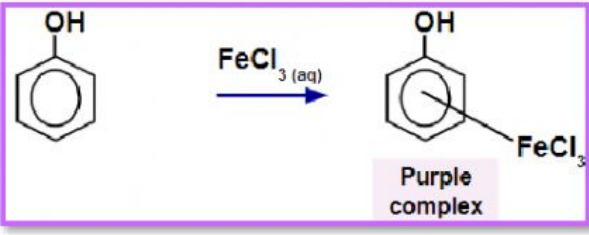
chemistry organic test Chemical الملف

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MATCH THE CORRECT NAME OF TEST AND COMPOUND WITH THE CORRECT EQUATION.

$ \begin{array}{c} \text{H} & & \text{H} \\ & \backslash & / \\ & \text{C} = \text{C} \\ & / & \backslash \\ \text{H} & & \text{H} \end{array} + \text{Br}_2 \xrightarrow{\text{CH}_2\text{Cl}_2} \begin{array}{c} \text{H} & \text{H} \\ & \\ \text{H}-\text{C}- & \text{C}-\text{H} \\ & \\ \text{Br} & \text{Br} \end{array} $	
<div style="border: 1px solid purple; padding: 10px; display: inline-block;">  <p style="text-align: center;">Purple complex</p> </div>	
$ \begin{array}{c} \text{H} & & \text{H} \\ & \backslash & / \\ & \text{C} = \text{C} \\ & / & \backslash \\ \text{H} & & \text{H} \end{array} + \text{Br}_2 \xrightarrow{\text{H}_2\text{O}} \begin{array}{c} \text{H} & \text{H} \\ & \\ \text{H}-\text{C}- & \text{C}-\text{H} \\ & \\ \text{Br} & \text{OH} \end{array} $	
$ \begin{array}{c} \text{R} & & \text{R} \\ & \backslash & / \\ & \text{C} = \text{C} \\ & / & \backslash \\ \text{H} & & \text{H} \end{array} \xrightarrow[\text{cold}]{\text{KMnO}_4, \text{OH}^-} \begin{array}{c} \text{OH} & \text{OH} \\ & \\ \text{R}-\text{C}- & \text{C}-\text{R} \\ & \\ \text{H} & \text{H} \end{array} + \text{MnO}_2 $	
<div style="border: 1px solid yellow; padding: 10px; display: inline-block;"> $\begin{array}{c} \text{O} \\ \\ \text{R}-\text{C}-\text{CH}_3 \end{array} \xrightarrow{\text{I}_2, \text{OH}^-} \begin{array}{c} \text{O} \\ \\ \text{R}-\text{C}-\text{O}^- \end{array} + \text{CHI}_3 (\text{s}) \downarrow$ <p style="text-align: center;">Carboxylate ion Yellow precipitate</p> </div>	
<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 20px;"> <p>primary</p> $\text{CH}_3(\text{CH}_2)_4\text{OH} \xrightarrow{\text{ZnCl}_2, \text{HCl}} \text{No Observable change}$ <p style="color: red; font-size: small;">No cloudy solution within 10 minutes</p> </div> <div style="margin-bottom: 20px;"> <p>secondary</p> $\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{CH}_3 \xrightarrow{\text{ZnCl}_2, \text{HCl}^{\text{Conc.}}} \text{CH}_3\text{CH}_2\text{CH}(\text{Cl})\text{CH}_2\text{CH}_3$ <p style="color: red; font-size: small;">Cloudy within 5-10 minutes</p> </div> <div> <p>tertiary</p> $\text{CH}_3\text{C}(\text{OH})(\text{CH}_3)_2 \xrightarrow{\text{ZnCl}_2, \text{HCl}^{\text{Conc.}}} \text{CH}_3\text{C}(\text{Cl})(\text{CH}_3)_2$ <p style="color: red; font-size: small;">Cloudy immediately</p> </div> </div>	

