

Set 1: Match the following Chemical Test

When 2-methyl-1-propanol react with concentrated hydrochloric acid and anhydrous zinc chloride, no cloudy solution formed after 10 minutes

Tollens' Test

Compound K, C_4H_8O produced silver mirror precipitate after reacted with aqueous ammonium silver nitrate.

Iodoform Test

Compound R, C_5H_8 is a cyclic hydrocarbon. It decolourised potassium permanganate and form brown precipitate when reacted with alkaline potassium permanganate in cold condition

Brady Test

An organic P forms a light yellow precipitate when reacted with alkaline excess iodine solution.

Lucas Test

Compound S, C_7H_6O gives a orange precipitate with 2,4-dinitrophenylhydrazine.

Baeyer Test

Compounds P and Q are carbonyl group but there are no observable changes when reacted with I_2 / $NaOH$.

Set 2: Click the button dropdown below

Equation	Name of Chemical test & Compound
$\text{CH}_3\text{CH}_2\overset{\text{OH}}{\underset{\text{CH}_3}{\text{CH}}} - \text{CH}_3 \xrightarrow[\text{OH}^-]{\text{excess I}_2} \text{CH}_3\text{CH}_2\overset{\text{O}}{\underset{\text{ }}{\text{C}}} - \text{O}^- + \text{CHI}_3 \downarrow$	Name of Chemical Test <input type="text"/> Compound <input type="text"/>
$\text{H}-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}=\text{C}-\text{H} + \text{KMnO}_4 \xrightarrow[\text{cold}]{\text{OH}^-} \text{H}-\overset{\text{OH}}{\underset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}}-\overset{\text{OH}}{\underset{\text{CH}_3}{\text{C}}}-\text{H} + \text{MnO}_2 \downarrow$	Name of Chemical Test <input type="text"/> Compound <input type="text"/>
$\text{CH}_3\text{CH}_2\overset{\text{O}}{\underset{\text{ }}{\text{C}}}-\text{H} \xrightarrow{[\text{Ag}(\text{NH}_3)_2]^+ (\text{aq})} \text{CH}_3\text{CH}_2\overset{\text{O}}{\underset{\text{ }}{\text{C}}} - \text{O}^- + \text{Ag} \downarrow$	Name of Chemical Test <input type="text"/> Compound <input type="text"/>
$\text{CH}_3\overset{\text{OH}}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_2\text{CH}_3 \xrightarrow{\text{HCl, ZnCl}_2} \text{CH}_3\overset{\text{Cl}}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}_2\text{CH}_3 + \text{H}_2\text{O}$	Name of Chemical Test <input type="text"/> Compound <input type="text"/>
$\text{CH}_3\overset{\text{CH}_3}{\underset{\text{C}=\text{O}}{\text{C}}} + \text{H}-\overset{\text{H}}{\underset{\text{H}}{\text{N}}}-\overset{\text{NO}_2}{\underset{\text{NO}_2}{\text{C}_6\text{H}_3}} \xrightarrow{\text{H}_2\text{O}} \text{CH}_3\overset{\text{CH}_3}{\underset{\text{C}=\text{N}}{\text{C}}}-\overset{\text{H}}{\underset{\text{H}}{\text{N}}}-\overset{\text{NO}_2}{\underset{\text{NO}_2}{\text{C}_6\text{H}_3}}$	Name of Chemical Test <input type="text"/> Compound <input type="text"/>