

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
$\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3 \xrightarrow[\text{OH}^-]{\text{excess I}_2} \text{CH}_3\text{CH}_2\text{C}(=\text{O})\text{O}^- + \text{CHI}_3 \downarrow$	Name of Chemical Test Compound
$\text{H}-\text{C}(\text{CH}_3)=\text{C}-\text{H} + \text{KMnO}_4 \xrightarrow[\text{cold}]{\text{OH}^-} \text{H}-\text{C}(\text{OH})(\text{CH}_3)-\text{C}(\text{OH})(\text{CH}_3)-\text{H} + \text{MnO}_2 \downarrow$	Name of Chemical Test Compound
$\text{CH}_3\text{CH}_2\text{C}(=\text{O})\text{H} \xrightarrow{[\text{Ag}(\text{NH}_3)_2]^+ (\text{aq})} \text{CH}_3\text{CH}_2\text{C}(=\text{O})\text{O}^- + \text{Ag} \downarrow$	Name of Chemical Test Compound
$\text{CH}_3\text{C}(\text{OH})(\text{CH}_3)\text{CH}_2\text{CH}_3 \xrightarrow{\text{HCl, ZnCl}_2} \text{CH}_3\text{C}(\text{Cl})(\text{CH}_3)\text{CH}_2\text{CH}_3 + \text{H}_2\text{O}$	Name of Chemical Test Compound
$\text{CH}_3\text{C}(=\text{O})\text{CH}_3 + \text{H}_2\text{N}-\text{N}(\text{H})-\text{C}_6\text{H}_3(\text{NO}_2)_2 \rightarrow \text{H}_2\text{O} + \text{CH}_3\text{C}(\text{CH}_3)=\text{N}-\text{N}(\text{H})-\text{C}_6\text{H}_3(\text{NO}_2)_2$	Name of Chemical Test Compound