

Chapter 15 Alcohols

Practice questions

Question number	Answer	Marks	Guidance									
1 (a)	A mixture of liquids is heated to boiling point for a prolonged time Vapour is formed which escapes from the liquid mixture, is changed back into liquid and returned to the liquid mixture Any ethanal and ethanol that initially evaporates can then be oxidised	1 1 1										
1 (b)	$\text{CH}_3\text{CH}_2\text{OH} + \text{H}_2\text{O} \rightarrow \text{CH}_3\text{COOH} + 4\text{H}^+ + 4\text{e}^-$	1										
2 (a) (i)	Compounds with the same molecular formula But different structural formulae / different structures	1 1	This is a definition so should be learnt.									
2 (a) (ii)	$\text{C}_2\text{H}_6\text{O}$ only	1										
2 (a) (iii)	CH_2 only	1										
2 (b)	Potassium dichromate(VI) / $\text{K}_2\text{Cr}_2\text{O}_7$ and acid / acidified / H_2SO_4 / H^+ Remains orange or no change or no reaction Orange to green	1 1 1	You can also have KMnO_4 / H_2SO_4 , but not HCl . Or remain purple if KMnO_4 used. Or goes from purple to colourless if KMnO_4 in acid used or gives brown precipitate or goes green if KMnO_4 neutral or in alkali.									
2 (c)	<u>Choice of reagents</u> <table><tr><td>potassium dichromate (VI) / $\text{K}_2\text{Cr}_2\text{O}_7$ and acid / acidified / H_2SO_4 / H^+ or KMnO_4 / H_2SO_4</td><td>Fehling's / Benedict's reagent</td><td>Tollens' reagent or AgNO_3 / NH_3 or ammoniacal silver nitrate Not AgNO_3 alone.</td></tr></table> <u>with the aldehyde C</u> <table><tr><td>goes orange to green goes purple to colourless / brown ppt. / green solution if KMnO_4 used red solid Potassium dichromate is more usual to do in school.</td><td>red solid</td><td>silver mirror</td></tr></table> <u>with the ketone D</u> <table><tr><td>remains orange or no change or no reaction or purple for KMnO_4</td><td>remains blue or no change or no reaction</td><td>remains colourless or no change or no reaction</td></tr></table>	potassium dichromate (VI) / $\text{K}_2\text{Cr}_2\text{O}_7$ and acid / acidified / H_2SO_4 / H^+ or KMnO_4 / H_2SO_4	Fehling's / Benedict's reagent	Tollens' reagent or AgNO_3 / NH_3 or ammoniacal silver nitrate Not AgNO_3 alone.	goes orange to green goes purple to colourless / brown ppt. / green solution if KMnO_4 used red solid Potassium dichromate is more usual to do in school.	red solid	silver mirror	remains orange or no change or no reaction or purple for KMnO_4	remains blue or no change or no reaction	remains colourless or no change or no reaction	1 1 1	These tests always come up, so learn the tests to distinguish aldehydes and ketones. If you can't learn them all pick one to really learn.
potassium dichromate (VI) / $\text{K}_2\text{Cr}_2\text{O}_7$ and acid / acidified / H_2SO_4 / H^+ or KMnO_4 / H_2SO_4	Fehling's / Benedict's reagent	Tollens' reagent or AgNO_3 / NH_3 or ammoniacal silver nitrate Not AgNO_3 alone.										
goes orange to green goes purple to colourless / brown ppt. / green solution if KMnO_4 used red solid Potassium dichromate is more usual to do in school.	red solid	silver mirror										
remains orange or no change or no reaction or purple for KMnO_4	remains blue or no change or no reaction	remains colourless or no change or no reaction										

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