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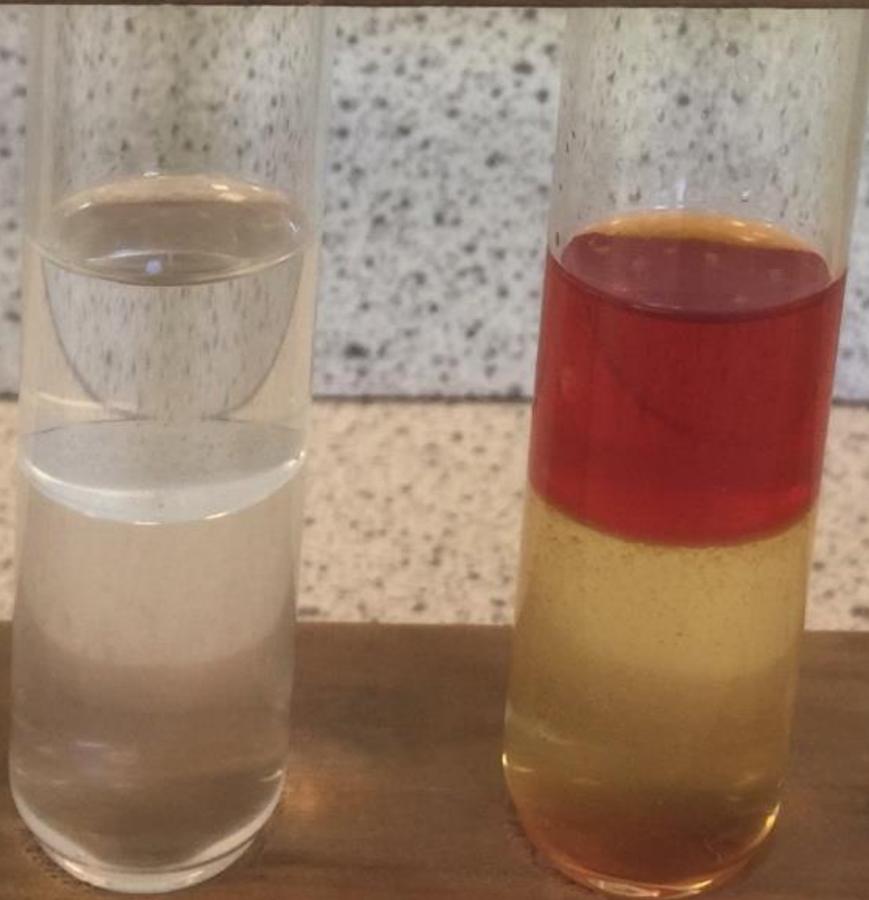
ORGANIC TEST-TUBE ANALYSIS



**ALKENES decolourise
bromine water**

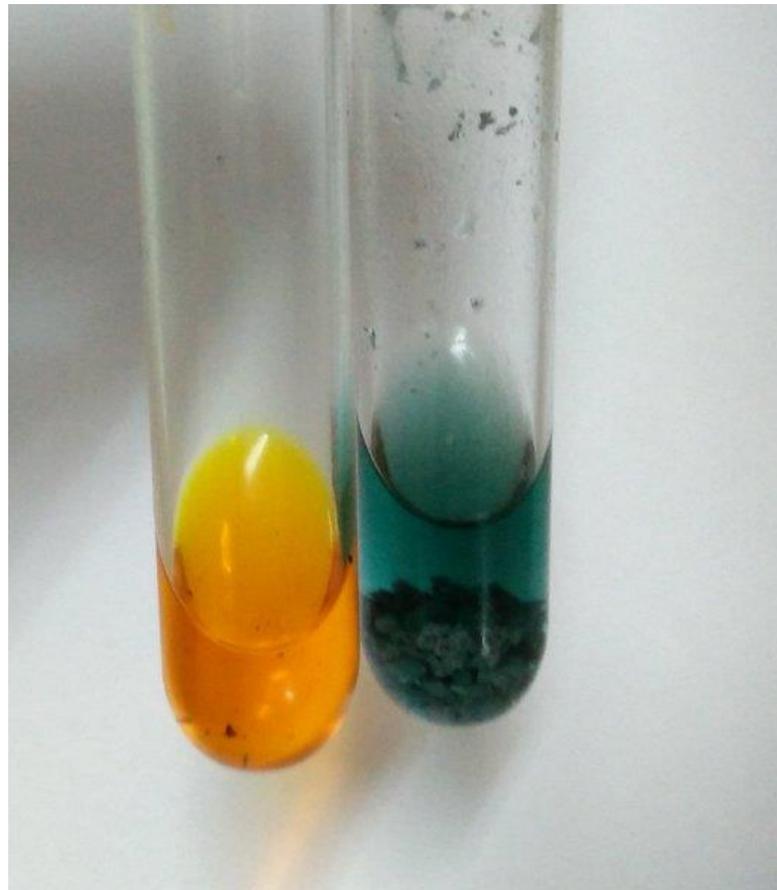


ALKENES
decolourise
bromine water



Alcohol O–H & aldehyde

- Acidified potassium dichromate(VI), contains $\text{Cr}_2\text{O}_7^{2-}$
- Used to test for aldehydes and 1^y / 2^y alcohols – goes from orange $\text{Cr}_2\text{O}_7^{2-}$ to green Cr^{3+}
- Reduced from Cr(+6) to Cr(+3)



Aldehyde

- Tollens' reagent, contains $[\text{Ag}(\text{NH}_3)_2]^+$
- Used to test for aldehydes – gives silver mirror
- Reduced from $\text{Ag}(+1)$ to $\text{Ag}(0)$



Aldehyde

- Fehling's solution, contains Cu^{2+}
- Used to test for aldehydes – gives brick-red ppt of Cu_2O
- Reduced from $\text{Cu}(+2)$ to $\text{Cu}(+1)$



Carboxylic acid

- Gentle fizzing (CO_2) with sodium carbonate



Halogenoalkanes

- Warm with $\text{AgNO}_3(\text{aq})$



Acyl chlorides

- Steamy white fumes on contact with moisture

