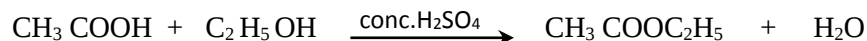


22. Give two tests for acetic acid.

1. When ethanoic acid (acetic acid) is warmed with ethanol in the presence of a few drops of concentrated sulphuric acid, a sweet smelling ester called ethyl ethanoate (or) ethylacetate is formed.

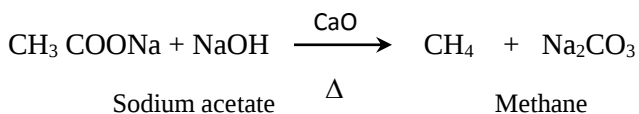


2. Acetic acid produces red colour when a neutral solution of ferric chloride is added to it.

23. What is decarboxylation? Give an example.

Decarboxylation is the elimination of CO_2 from a carboxylic acid.

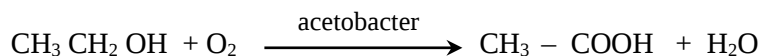
When sodium salts of acetic acid are heated with soda lime ($\text{NaOH} + \text{CaO}$) alkanes are formed.



24. Write a note on Quick Vinegar Process.

A dilute solution of acetic acid (4-7%) is known as vinegar. It is prepared by the fermentation of ethyl alcohol with the bacteria acetobacter in the presence of air.

Acetic acid reacts with ammonia to give salts, which on heating yield acetanate.



25. $\text{CH}_3\text{COOH} + \text{NH}_3 \longrightarrow \dots? \dots \longrightarrow \dots? \dots$ Complete the reaction.

Acetic acid reacts with ammonia to give salts, which on heating yield acetanate.

E.g.,

