

CLEANING OF THE GLASS APPARATUS.

2013 EXPERIMENT NUMBER: 2

PREPARATION OF LYOPHOBIC SALT:  
(FERRIC HYDROXIDE SALT)

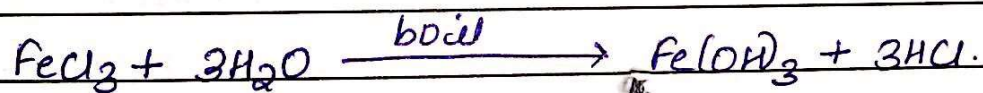
→ AIM:

To prepare colloidal solution of ferric hydroxide.

→ APPARATUS AND CHEMICALS REQUIRED:

conical flask, 250 ml beaker, glass rod, 2% solution of ferric chloride, distilled water.

→ THEORY:



→ PROCEDURE:

1. Take a 250 ml beaker. Clean it and dry it.
2. Add 100 ml of distilled water to it and heat it to a boil.
3. To the boiling water, add ferric chloride dropwise. Continue heating until a deep red solution of ferric hydroxide is obtained.
4. Leave the conical flask undisturbed at room temperature.



→ RESULT:

Ferric hydroxide sol is prepared.

→ PRECAUTIONS:

1. Since Ferric hydroxide sol is affected by impurities, the apparatus must be cleaned thoroughly.
2. Add Ferric chloride dropwise.
3. Heating is continued until desired sol is obtained.
4. HCl formed should be removed by dialysis. Otherwise, it would destabilise the sol.

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20/1/14