Experiment

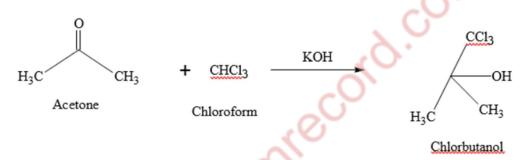
Synthesis of Chlorobutanol

Aim; To synthesize Chlorobutanol and calculate its percentage yield.

Requirement;-

- Chemicals- acetone, chloroform, potassium hydroxide.
- Glassware- round bottom, Measuring cylinder, Glass rod.

Principle- Chlorobutanol is synthesized by combining acetone and chloroform in the presence of potassium hydroxide. This is a base-driven reaction called nucleophile addition.



Synthesis of Chlorbutanol

Procedure;-

- 1. About 11 ml of chloroform and 1 gm of solid potassium hydroxide are taken in a round bottom flask shake until the potassium hydroxide dissolves.
- 2. To this 14 ml of acetone was added and shaken for 15 minutes.
- 3. Then set aside for half an hour and crystal of chlorbutanol was separated out.

Calculation:-

Theoretical yield:-....g

Practical yield:-....g

Formula:- % yield=Practical yield/Theoretical yield×100

Result:- The Chlorobutanol are synthesized & percent practical yield was found to be%.