

Experiment

Synthesis of Triphenyl imidazole

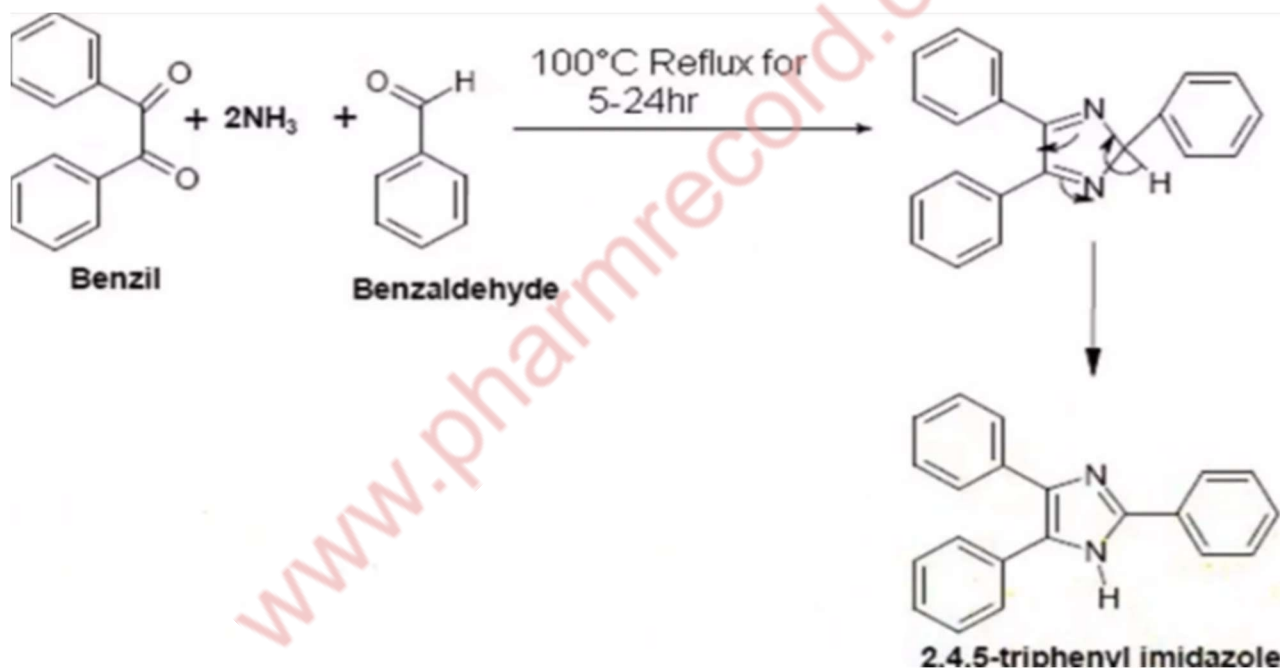
Aim;- To synthesize Triphenyl imidazole and calculate its percentage yield.

Requirement;-

- **Chemicals-** Benzil, Benzaldehyde, Ammonium acetate, glacial acetic acid, methanol.
- **Glassware-** round bottom flask, Measuring cylinder, Glass rod.
- **Equipment:-** condenser.

Principal;-

Triphenyl imidazole can be synthesized by refluxing benzil, benzaldehyde, and ammonium acetate in acetic acid. The reaction is carried out at 100°C for 5–24 hours.



Procedure;-

1. Place 2.5 gm of Benzil, 1.5 ml of Benzaldehyde and 5 gm of Ammonium acetate to a 250 ml round bottom flask add 40 ml of glacial acetic acid heat the reaction mixture on water bath at 100°C for 5-24 hours by connecting water condenser.
2. Cool the flask to room temperature and pour the reaction mixture into 100 ml of cold water and filter the product under suction to remove an insoluble by-product.
3. Recrystallize the product with methanol.

Calculation:-

Theoretical yield:-.....g

Practical yield:-.....g

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

Result:- The synthesise Triphenyl imidazole was successfully & % yield was found to be

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