Experiment No. 2

**Condensation of an aldehyde and an amine to give a Schiff base**

**Aim:** To synthesize a Schiff base by condensation of an aldehyde and an amine

**Chemical:** Pure benzaldehyde, 2-methoxyethylamine, MgSO4 and Methanol.

**Apparatus:** 100 mL round bottom flask, glass stopper, stir bar, hot plate, 250 mL round   
 bottom flask, 250 mL filtration flask, sintered funnel, filter paper

**General procedure:** To a solution of 2-methoxyethylamine (**2**, 1.0 equiv**)** in MeOH (10–20 mL) was added MgSO4 (s, 1.1 equiv) and benzaldehyde (**1,** 1.0 equiv). The mixture was refluxed for 3.0 h. The reaction was monitored by TLC and cooled to room temperature. After that the reaction mixture was filtered, the filtrate was washed with water (2 × 15 mL) and then the aqueous phase was extracted with EtOAc (2 × 15 mL). The combined organic layers were washed with brine (15 mL) dried over MgSO4 (s), and concentrated under reduced pressure. The product was dried and characterized.



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**Result**: The product obtained was:

1.

2.

3.

4.

5.

Yield (%):

Melting point:

IR:

TLC: