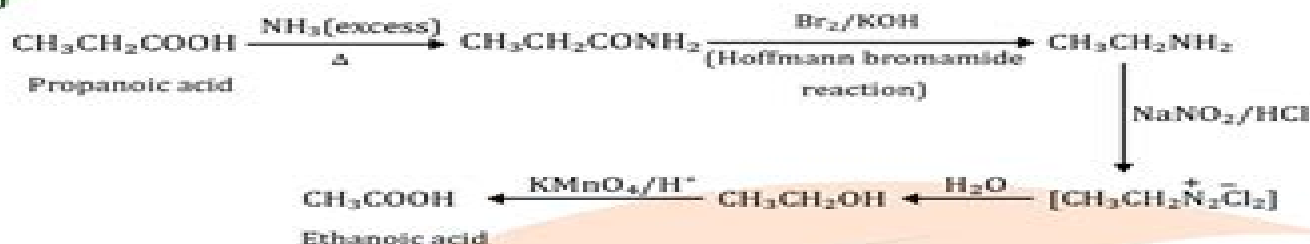


# Chemistry

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(Chapter 9) (Amines) (Exercises)  
(Class 12)

(viii)



## Question 9.6:

Describe a method for the identification of primary, secondary and tertiary amines. Also write chemical equations of the reactions involved.

## Answer 9.6:

Primary, secondary and tertiary amines can be identified and distinguished by Hinsberg's test. In this test, the amines are allowed to react with Hinsberg's reagent, benzenesulphonyl chloride ( $\text{C}_6\text{H}_5\text{SO}_2\text{Cl}$ ). The three types of amines react differently with Hinsberg's reagent. Therefore, they can be easily identified using Hinsberg's reagent. Primary amines react with benzenesulphonyl chloride to form N-alkylbenzenesulphonyl amide which is soluble in alkali.



Due to the presence of a strong electron-withdrawing sulphonyl group in the sulphonamide, the H-atom attached to nitrogen can be easily released as proton. So, it is acidic and dissolves in alkali. Secondary amines react with Hinsberg's reagent to give a sulphonamide which is insoluble in alkali.



There is no H-atom attached to the N-atom in the sulphonamide. Therefore, it is not acidic and insoluble in alkali. On the other hand, tertiary amines do not react with Hinsberg's reagent at all.

## Question 9.7:

Write short notes on the following:

- (i) Carbylamine reaction
- (iii) Hofmann's bromamide reaction
- (v) Ammonolysis
- (vii) Gabriel phthalimide synthesis.

- (ii) Diazotisation
- (iv) Coupling reaction
- (vi) Acetylation

# 12std Chemistry Chapter 9

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