

# Chemistry

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(Chapter 13) (Amines) (Exercises)  
(Class 12)

## Question 13.1:

Write IUPAC names of the following compounds and classify them into primary, secondary and tertiary amines.



## Answer 13.1:

(i) 1-Methylethanamine (1° amine)

(ii) Propan-1-amine (1° amine)

(iii) N-Methyl-2-methylethanamine (2° amine)

(iv) 2-Methylpropan-2-amine (1° amine)

(v) N-Methylbenzamine or N-methylaniline (2° amine)

(vi) N-Ethyl-N-methylethanamine (3° amine)

(vii) 3-Bromobenzenamine or 3-bromoaniline (1° amine)

## Question 13.2:

Give one chemical test to distinguish between the following pairs of compounds.

(i) Methylamine and dimethylamine

(ii) Secondary and tertiary amines

(iii) Ethylamine and aniline

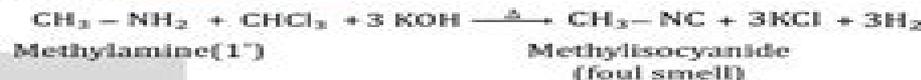
(iv) Aniline and benzylamine

(v) Aniline and N-methylaniline.

## Answer 13.2:

(i) Methylamine and dimethylamine can be distinguished by the carbylamine test.

**Carbylamine test:** Aliphatic and aromatic primary amines on heating with chloroform and ethanolic potassium hydroxide form foul-smelling isocyanides or carbylamines. Methylamine (being an aliphatic primary amine) gives a positive carbylamine test, but dimethylamine does not.



(ii) Secondary and tertiary amines can be distinguished by allowing them to react with Hinsberg's reagent (benzenesulphonyl chloride, C<sub>6</sub>H<sub>5</sub>SO<sub>2</sub>Cl). Secondary amines react with Hinsberg's reagent to form a product that is insoluble in an alkali. For example, N, N-diethylamine reacts with Hinsberg's reagent to form N, N-diethylbenzenesulphonamide, which is insoluble in an alkali. Tertiary amines, however, do not react with Hinsberg's reagent.



(iii) Ethylamine and aniline can be distinguished using the azo-dye test. A dye is obtained when aromatic amines react with HNO<sub>2</sub> (NaNO<sub>2</sub> + dil.HCl) at 0-5°C, followed by a reaction with the alkaline solution of 2-naphthol. The dye is usually yellow, red, or orange in colour. Aliphatic amines give a brisk effervescence due (to the evolution of N<sub>2</sub> gas) under similar conditions.

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**Shasha Hu**

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