

Exercise Ch 10

Which of the following is not a primary amine?

- (i) 3-Hexylamine
- (ii) Cyclohexylamine
- (iii) 1-Butylamine
- (iv) Diethylamine

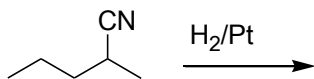
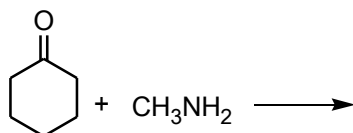
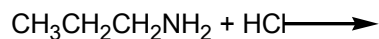
Arrange the following in increasing order of their basic strength:

(i) $\text{C}_2\text{H}_5\text{NH}_2$, $\text{C}_6\text{H}_5\text{NH}_2$, NH_3 , $\text{C}_6\text{H}_5\text{CH}_2\text{NH}_2$ and $(\text{C}_2\text{H}_5)_2\text{NH}$

(ii) $\text{C}_2\text{H}_5\text{NH}_2$, $(\text{C}_2\text{H}_5)_2\text{NH}$, $(\text{C}_2\text{H}_5)_3\text{N}$, $\text{C}_6\text{H}_5\text{NH}_2$

(iii) CH_3NH_2 , $(\text{CH}_3)_2\text{NH}$, $(\text{CH}_3)_3\text{N}$, $\text{C}_6\text{H}_5\text{NH}_2$, $\text{C}_6\text{H}_5\text{CH}_2\text{NH}_2$.

Complete the following reactions



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

(i) $(\text{CH}_3)_2\text{CHNH}_2$

(iii) $\text{CH}_3\text{NHCH}(\text{CH}_3)_2$

(v) $\text{C}_6\text{H}_5\text{NHCH}_3$

(vii) *m*- $\text{BrC}_6\text{H}_4\text{NH}_2$

(ii) $\text{CH}_3(\text{CH}_2)_2\text{NH}_2$

(iv) $(\text{CH}_3)_3\text{CNH}_2$

(vi) $(\text{CH}_3\text{CH}_2)_2\text{NCH}_3$