

Q. 30 Which of the following species are involved in the carbylamine test?
(a) $R-NC$ (b) $CHCl_3$ (c) $COCl_2$ (d) $NaNO_2 + HCl$

Ans. (a, b)

Carbylamine reaction Amine on reaction with a mixture of $CHCl_3$ and KOH produces alkyl isocyanate. $R-NH_2 + CHCl_3 + 3KOH \longrightarrow RNC + 3KCl + 3H_2O$

Only RNC and $CHCl_3$ are involved in carbylamine reaction. Hence, (a) and (b) are correct.