

$CH_3 - CH_2C \equiv N \xrightarrow{X} CH_3CH_2CHO$. The compound X is

A) $SnCl_2/HCl/H_2O$, boil

B) $H_2/Pd - BaSO_4$

C) $LiAlH_4/ether$

D) $NaBH_4/ether/H_3O^+$

Correct Answer: A

Solution :

[a] It is Stephen's reaction. $CH_3CH_2C \equiv N \xrightarrow{SnCl_2/HCl} CH_3CH_2CH \equiv NH \cdot HCl \xrightarrow{H_2O} CH_3CH_2CHO + NH_4Cl$