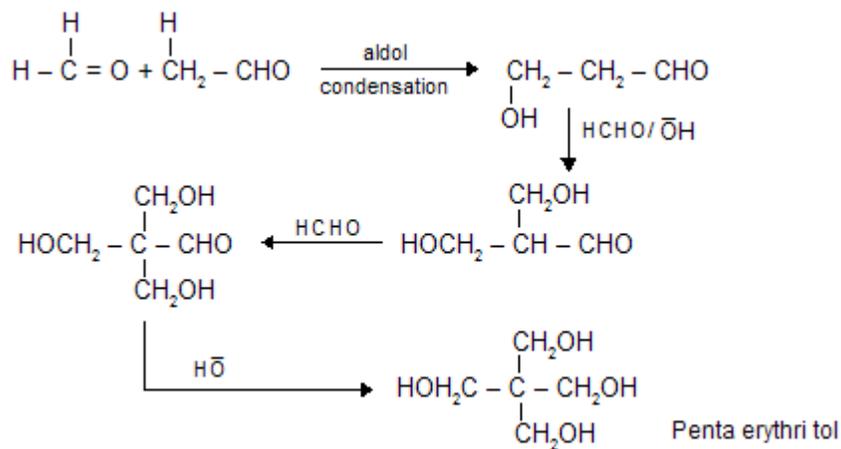


Question: give chemical equation of Condensation of methanal and ethanal in the presence of ammonia

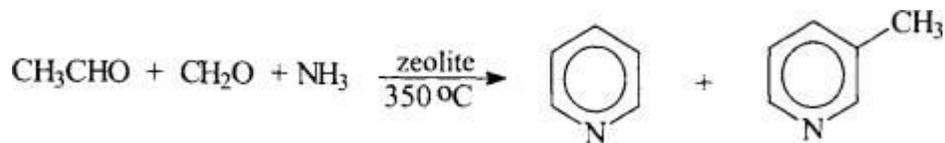
Answer:

Way 1



Formaldehyde and acetaldehyde combine to form trihydroxy aldehyde (**Claisen-Schmidt reaction**) which reacts with alkali to give pentaerythritol (Cannizaro reaction) :

Way 2



In industry pyridine and β -picoline (3-methylpyridine) are generally coproduced by condensing formaldehyde, acetaldehyde and ammonia. Also small amounts of α - and γ -picoline and of higher alkylated pyridines are formed.

Answer provided by www.AssignmentExpert.com