

# Study Notes On Strecker Acid Synthesis



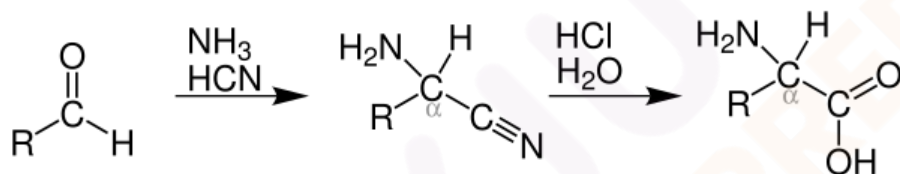
## STRECKER ACID SYNTHESIS

Strecker acid synthesis can also be called Strecker amino acid synthesis or Strecker synthesis. It is a 2-step process for Amino acid synthesis.

In this reaction, an aldehyde reacts with ammonia ( $\text{NH}_3$ ) in presence of potassium cyanide ( $\text{NaCN}$ ) to yield amino acid.

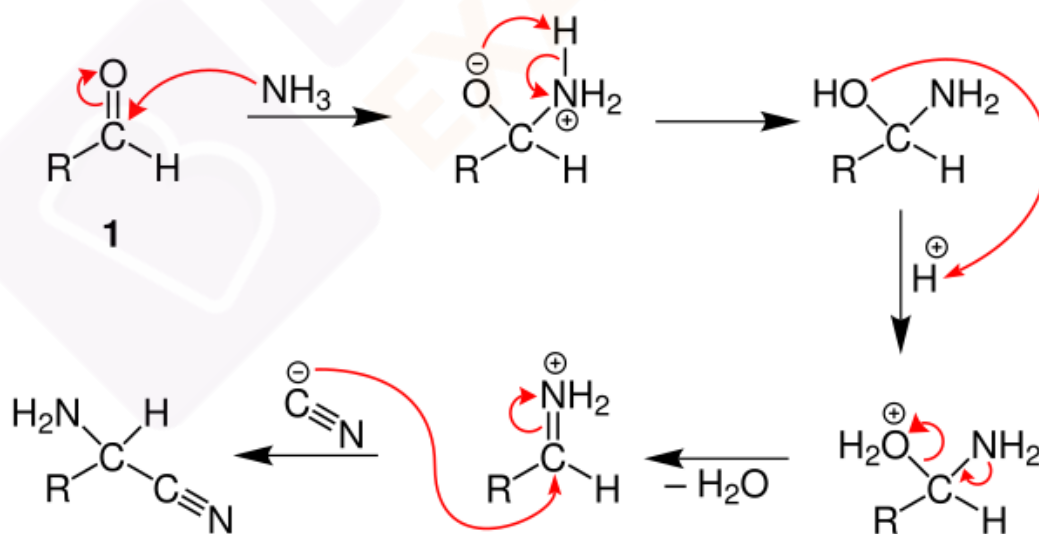
In this, firstly the condensation reaction yields an  $\alpha$ -amino nitrile which is then hydrolyzed to give the amino acid.

### General reaction-

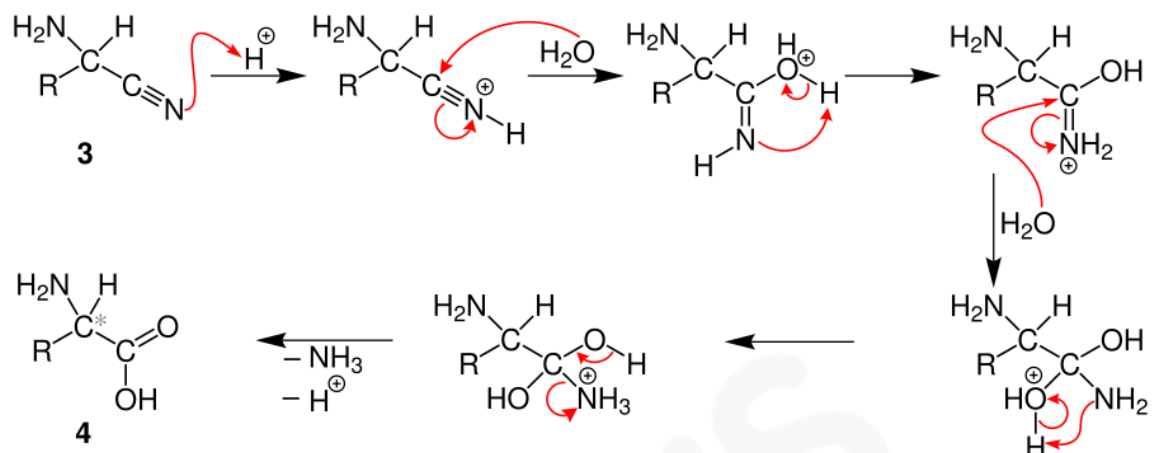


### Reaction Mechanism-

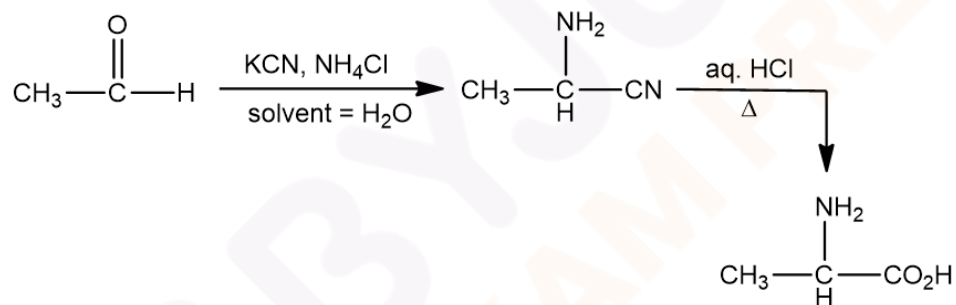
STEP 1:



STEP 2:



### Example of Strecker Synthesis-



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



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