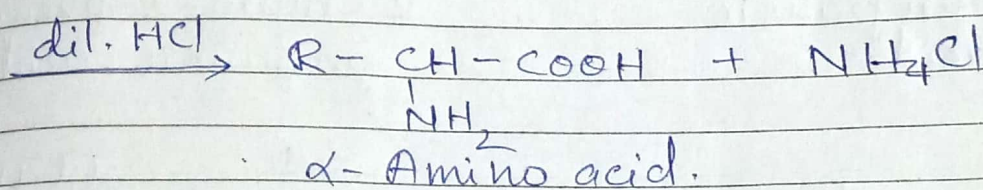
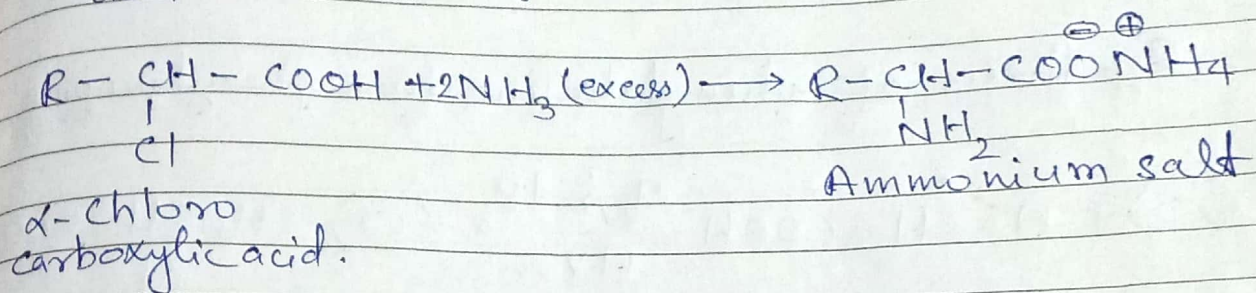


Preparation of amino acids.

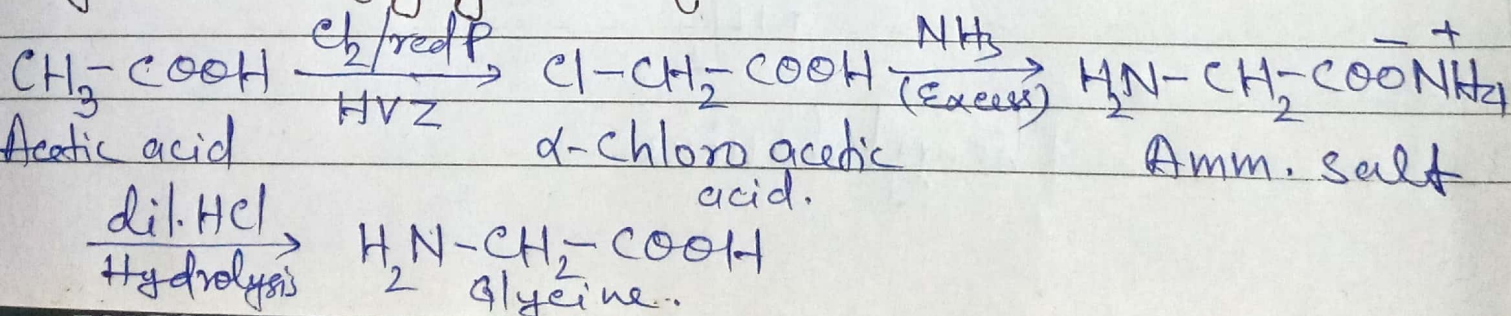
A number of synthetic methods have been developed for the preparation of α -amino acids.

- (1) From α -haloacids - By action of excess ammonia α -haloacids (chloro or bromo) are converted into α -amino acids by nucleophilic substitution reaction. Due to excess ammonia α -haloacids are converted into ammonium salts of α -amino acid. These upon hydrolysis gives the corresponding α -amino acid.



This method is suitable for the preparation of glycine, alanine, Valine, Serine etc. The α -Haloacids need for reaction is synthesised by HVZ reaction (Hell-Volhard-Zelinsky)

Synthesis of glycine from acetic acid



(2) Synthesis of phenylalanine from malonic ester.

