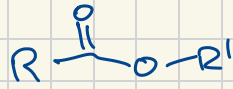


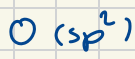
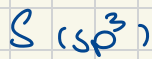
Ex 8

1)



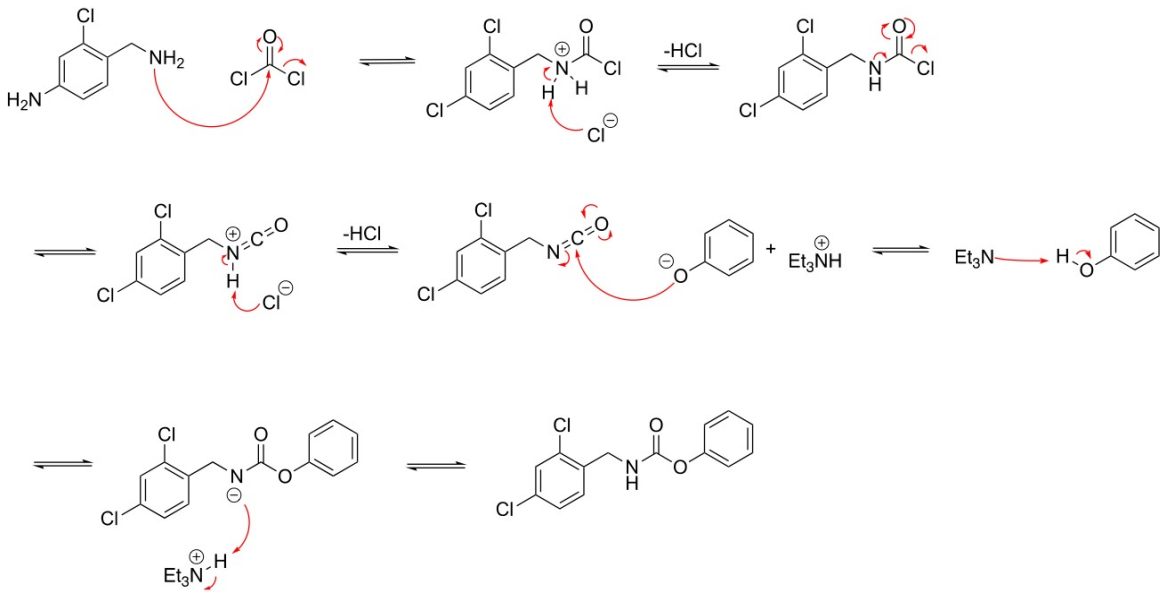
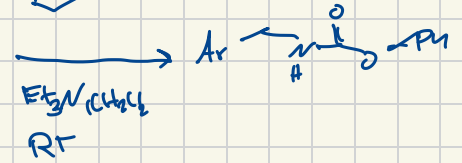
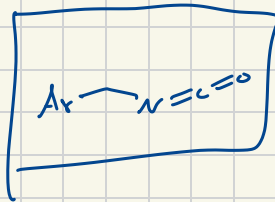
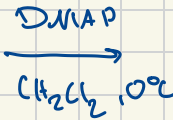
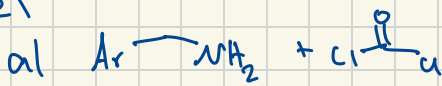
- S bigger

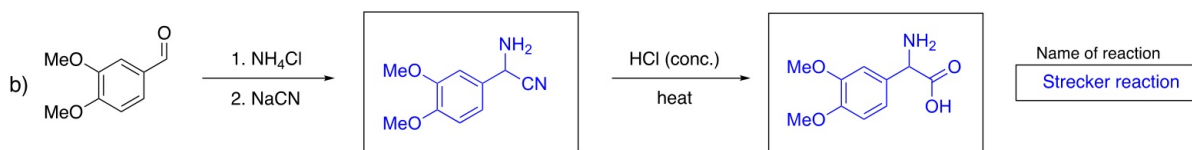
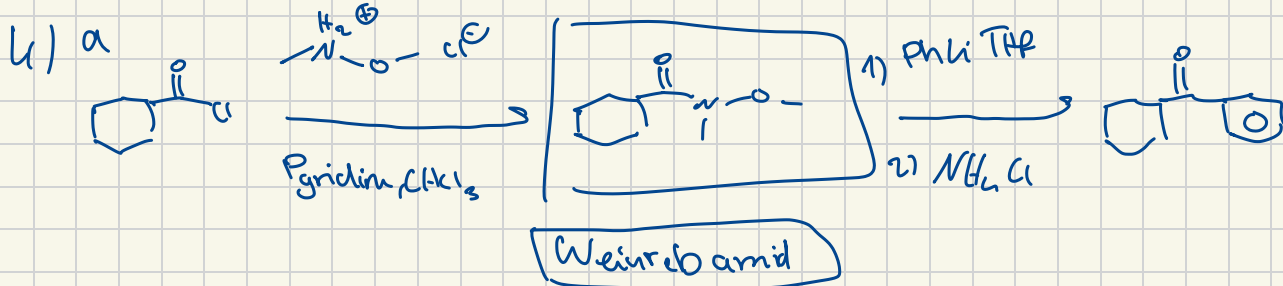
- schlechterer overlap \Rightarrow weniger Resonanz



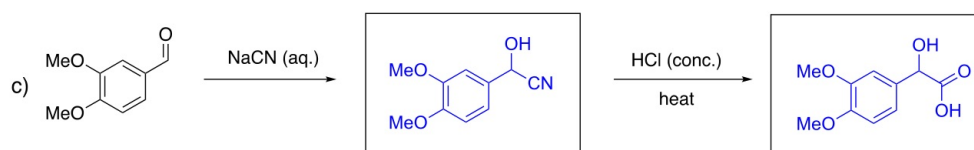
- -S-R' besser LG

2)

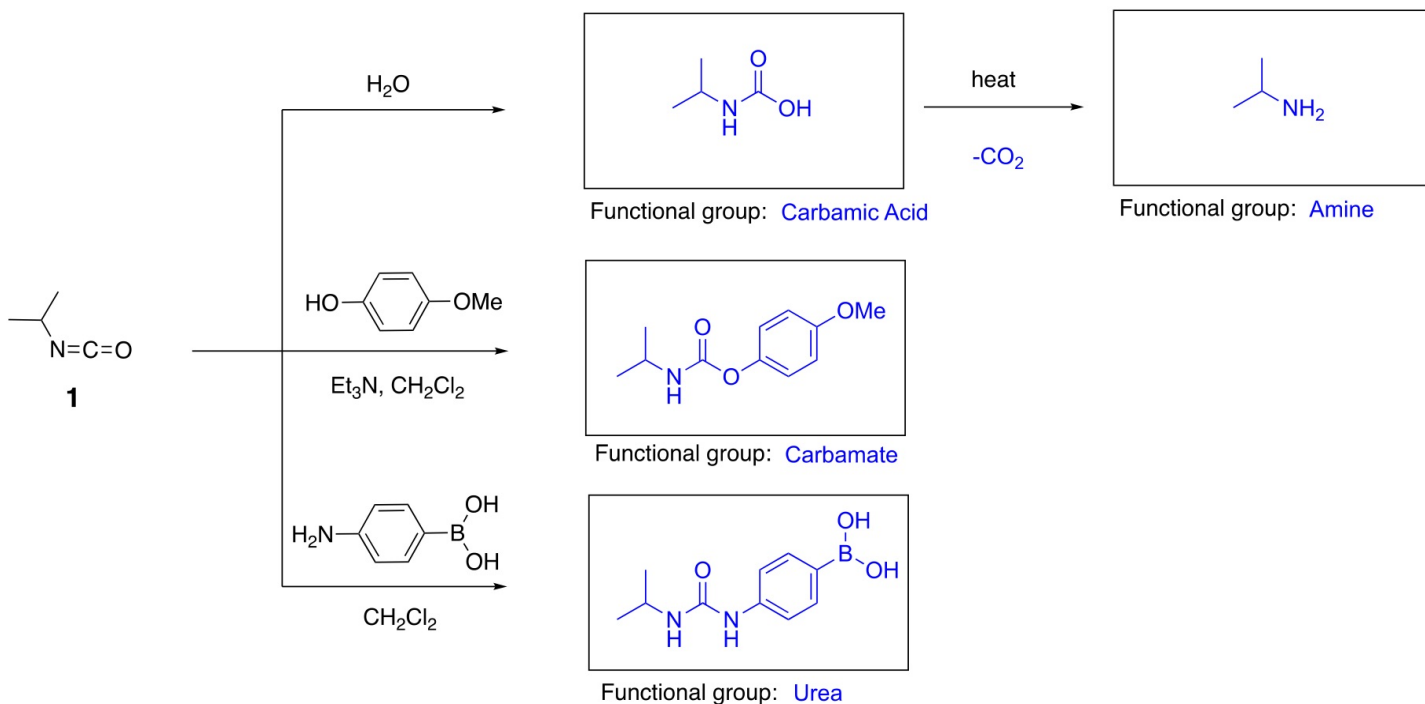
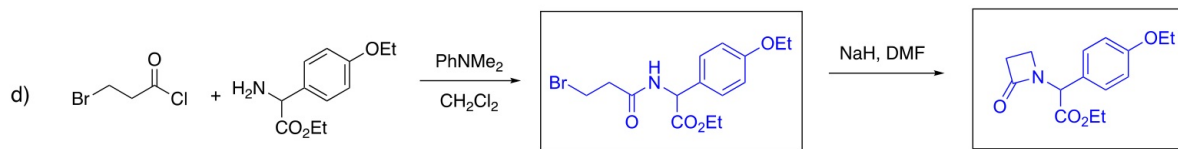




Typical Strecker synthesis conditions, formation of the imine (step 1) followed by addition of cyanide. Subsequent hydrolysis of the nitrile into a carboxylic acid furnishes the α -amino acid.



Similar to Q4 (b), however we are directly adding cyanide in the first step, therefore the first intermediate is the cyanohydrin. Hydrolysis of the cyanohydrin yields an α -hydroxy acid.



6

