

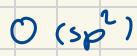
Ex 8

1)



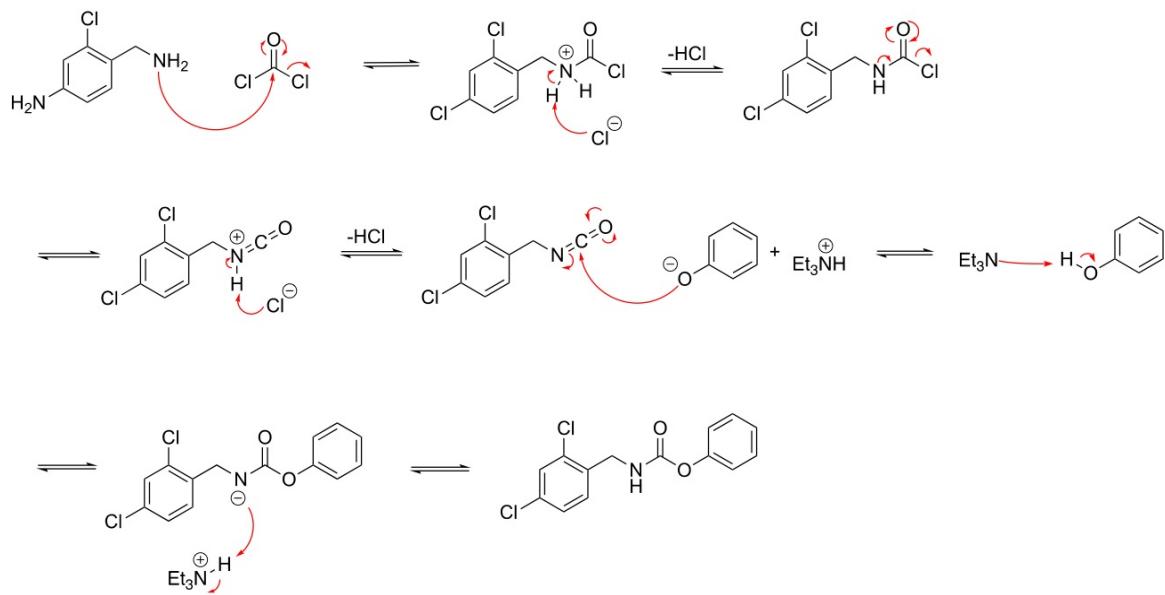
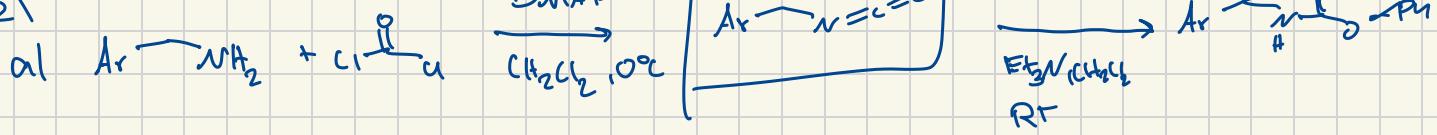
- S bigger

- schlechterer Angriffspunkt \Rightarrow weniger Reaktion

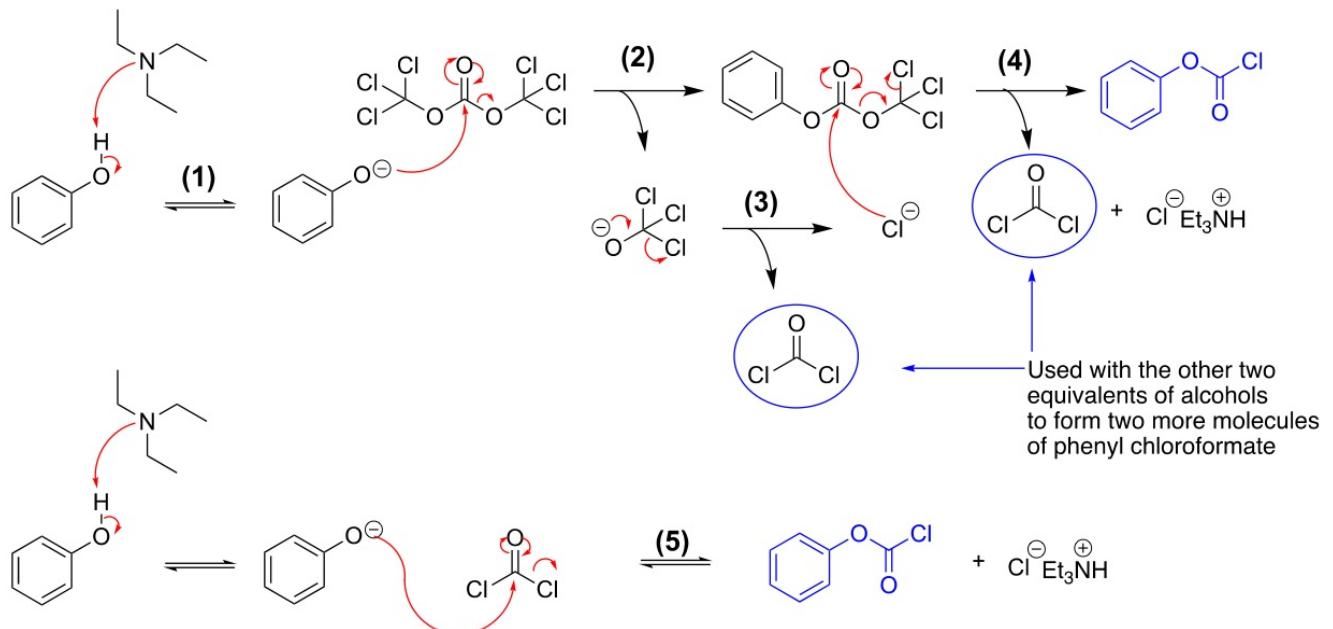
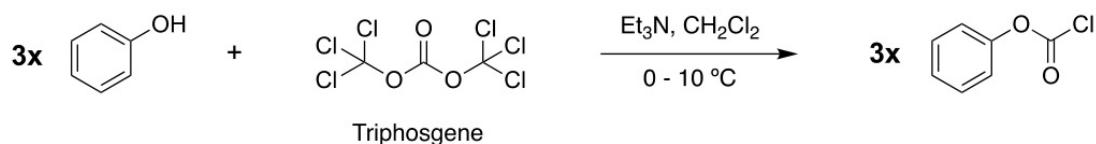


- $-\text{S}-\text{R}'$ besser LG

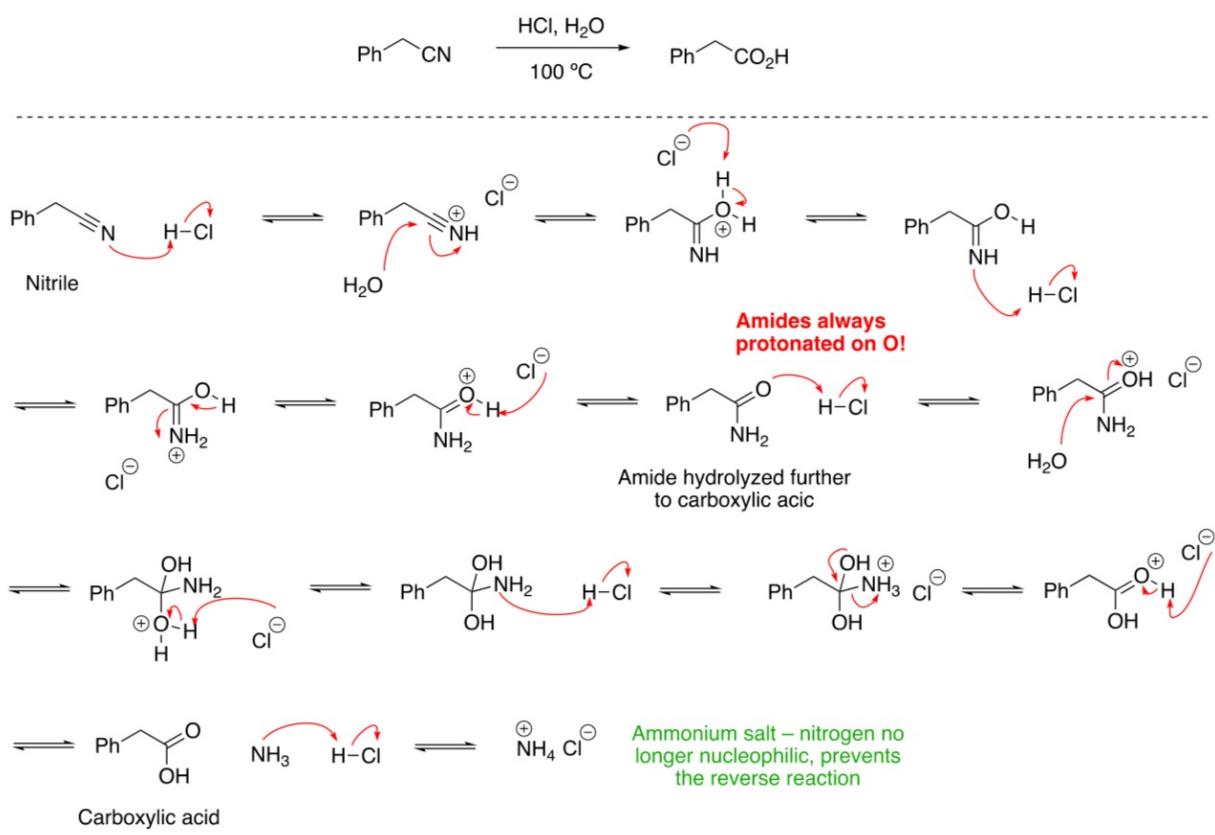
2)

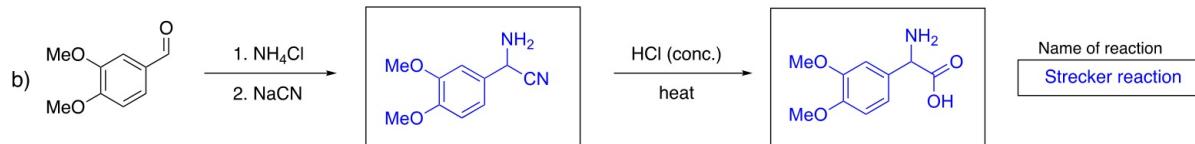
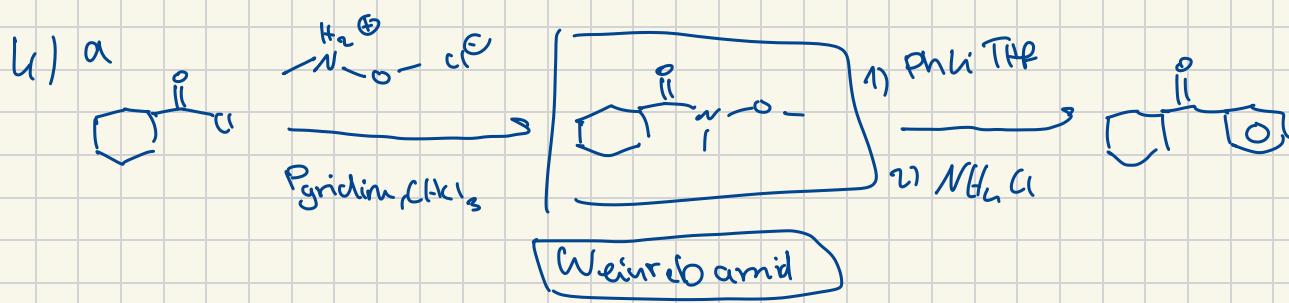


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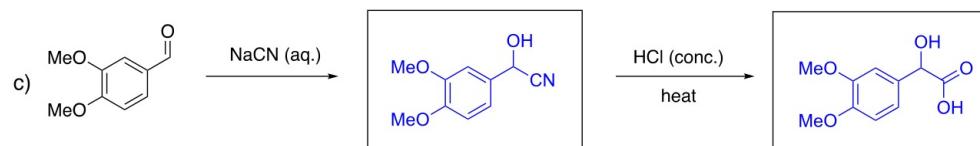


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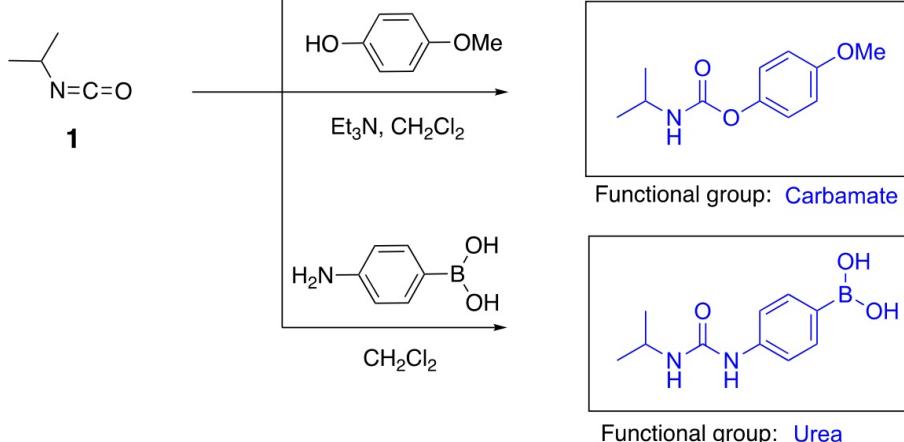
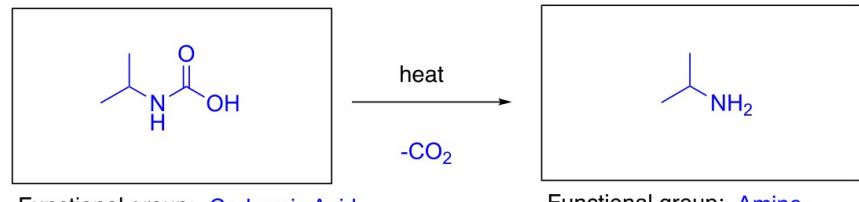
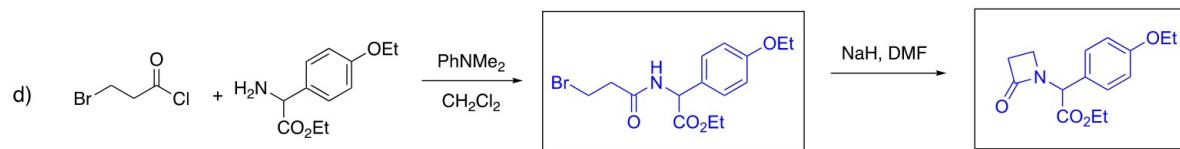




Typical Strecker synthesis conditions, formation of the imine (step 1) followed by addition of cyanide. Subsequent hydrolysis of the nitrile into a carboxylic acid furnishes the α -amino acid.



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.



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