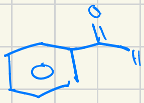
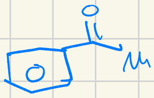
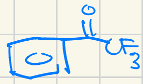
Woche 8 Serie 7 03.11.25

1| More reactive → higher wavenumber



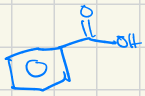


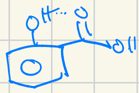


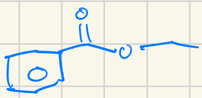
Me ≙ EDG
→ stabilizes
→ less reactiv

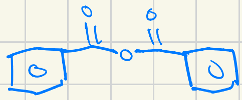
CF_3 ≙ EWG
→ destabilizes
→ more reactiv

1697 cm^{-1} 1681 cm^{-1} 1717 cm^{-1}









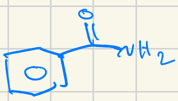
referenz

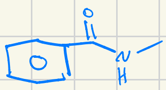
H-bond → stabilizes
→ lower frequency

OR better LG

2 carbonyls → 2 freq.
→ even better LG

1678 cm^{-1} 1653 cm^{-1} 1714 cm^{-1} 1772, 1713 cm^{-1}

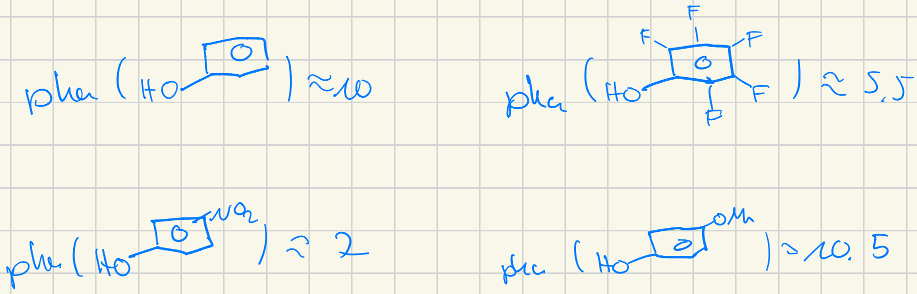




Me ≙ EDG
→ stabiliz

1654 cm^{-1} 1635 cm^{-1}

2) Gute LG ∝ pKa



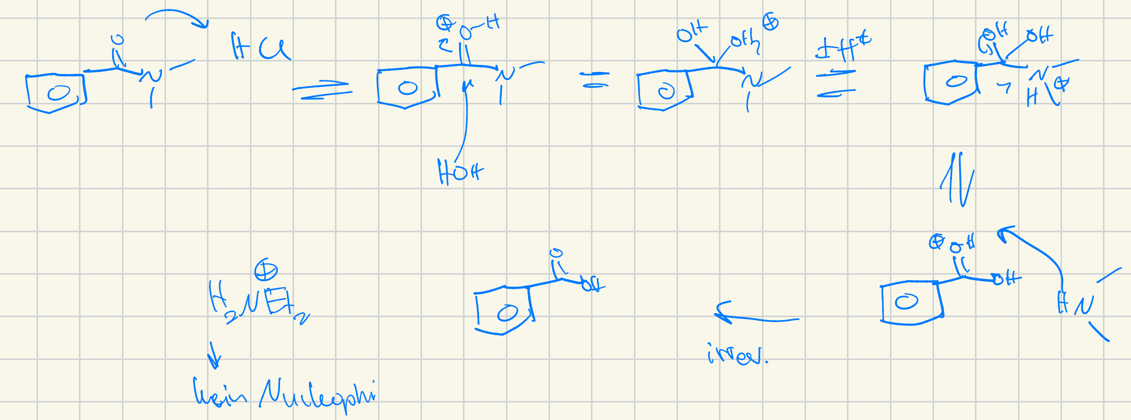
3)

Amide sind die stabilsten Carbonsäure derivate

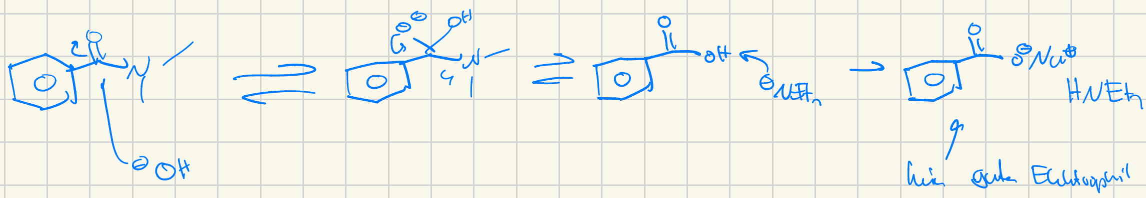
→ keine hydrolyse im neutralen möglich

Säure / Base cat.

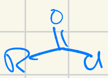
A)



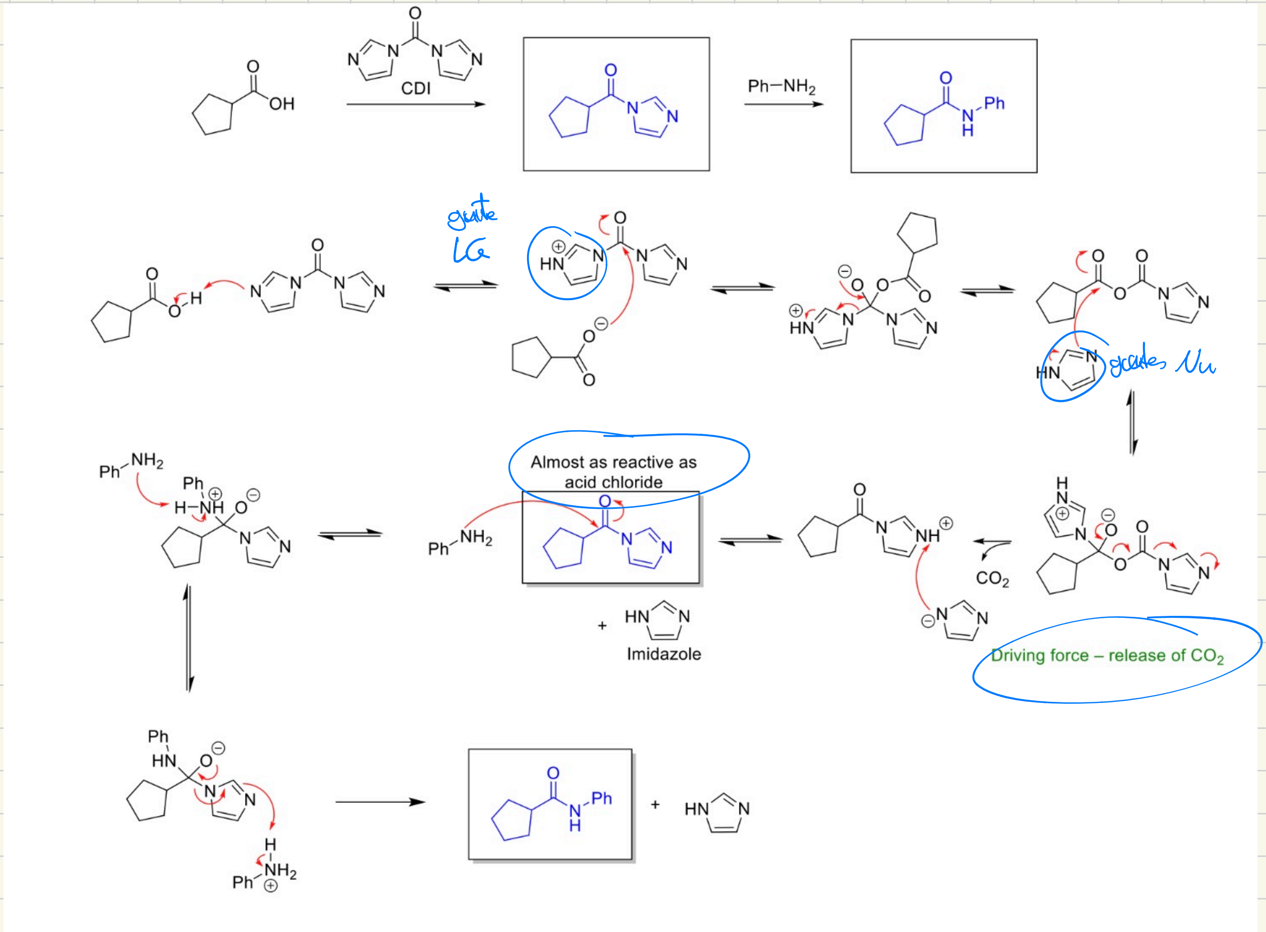
B)



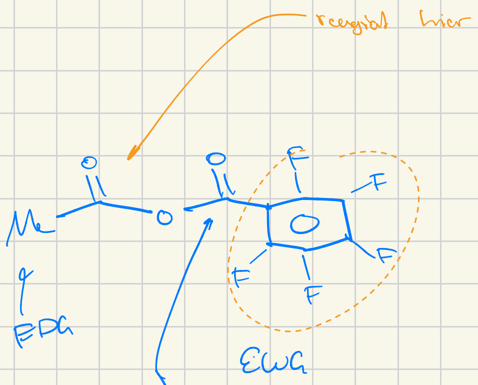
4)

 not stable in water → work water free

5|



6)



Besseres Elektrophil aber sterisch nicht

vergessen ?: + EWG macht es zu guter LG

8)

JACS, **2008**, *130*, 3622-3644