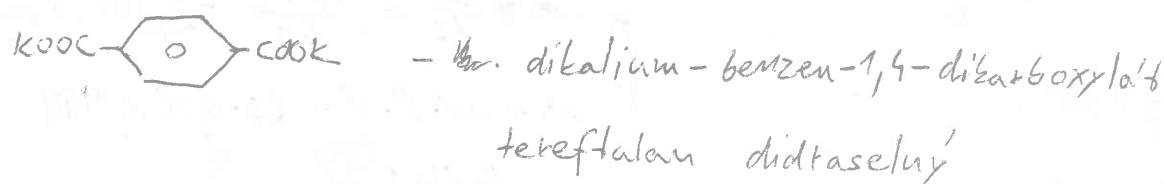
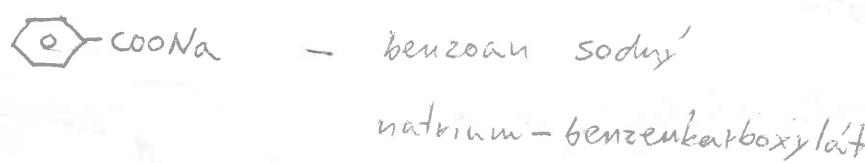
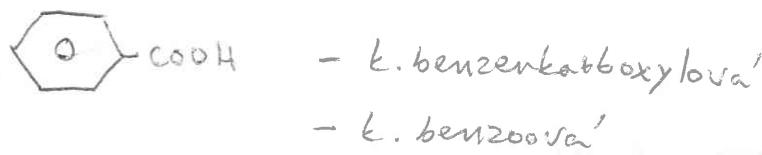
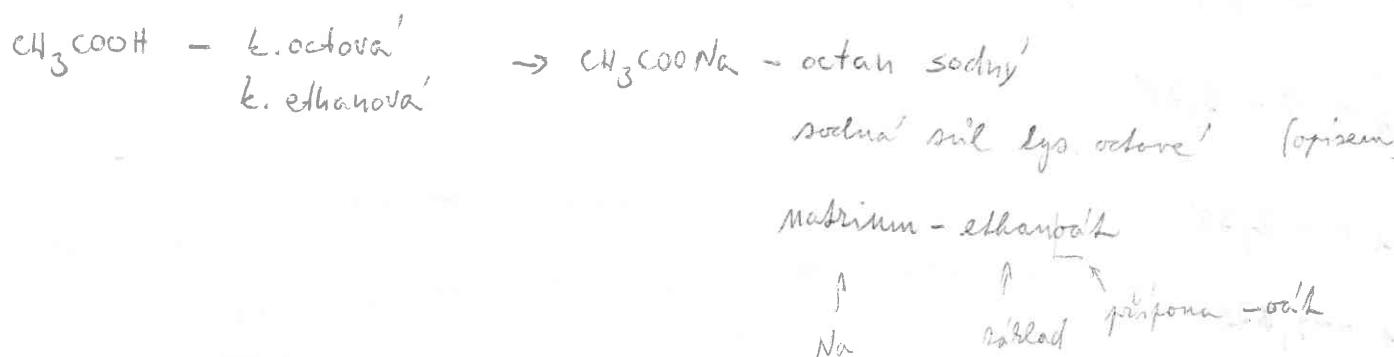
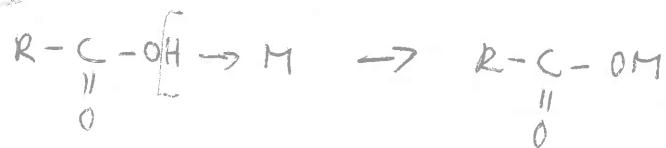


Funkční deriváty karboxylových kyselin

SOLI



príprava - a) reakce sys. s hydroxidem



- b) reakce sys. s korem



- c) reakce lyseliny s ublikitánem



↓

neavenčená draselný

Sodium-methanat

uzvěk - a) dekarboxylace



- b) reakce se silnější sys.



- c) octan blistrý - olozy

benzoan sodný - konzervací prostředek

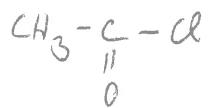
octan sodný a draselný - katalyzátor

polivinyl sodný a draselný > výdele

stearan sodný a draselný > výdele

ACYL HALOGENIDY

Rart. Rys.



ethanoylchlorid

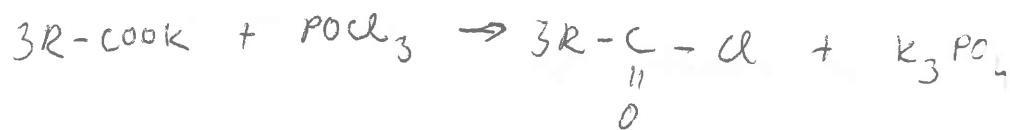
chlorid Rys. octov'

acetylchlorid

príprava - (a) reac. Darbov. Ryzeliny s dichloridom křižovým SOCl_2 (i.t.)



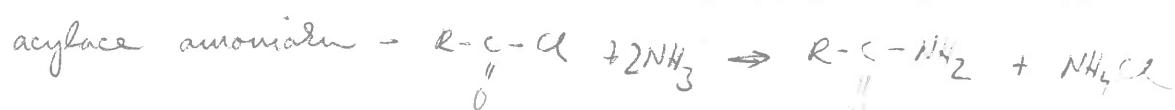
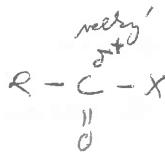
- (b) reacce soli s křižozidem fosforečným POCl_3



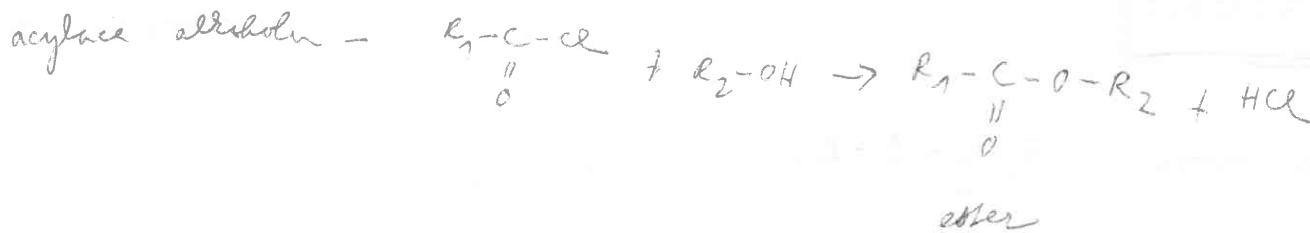
reaktivity - reakcia s vodou; reakcia s amoniakom; reakcia s alkoholmi

- reakce s vodou $\text{RCOX} + \text{H}_2\text{O} \rightarrow \text{RCOOH} + \text{HX}$

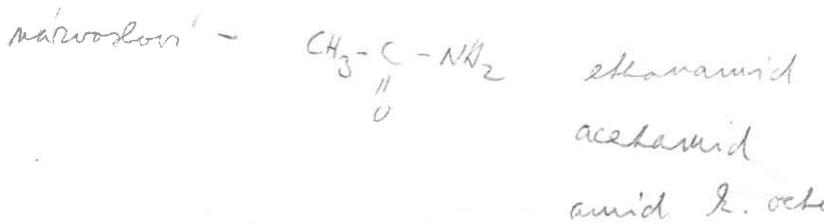
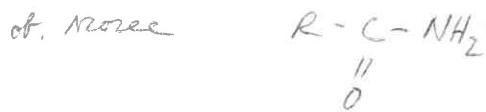
- ježíš pomocí se acyl parád' do molekuly



amid



AMIDY | soub. hyd.



príprava - acylace amoniáku
 - termickým reakčním srovnáváním sol'

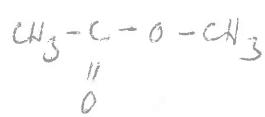


vláknost - zapaluj mebo pene' laby
 - r. primyjdu jdu respons'kdu (formamid)

ESTERY



naivnosti'

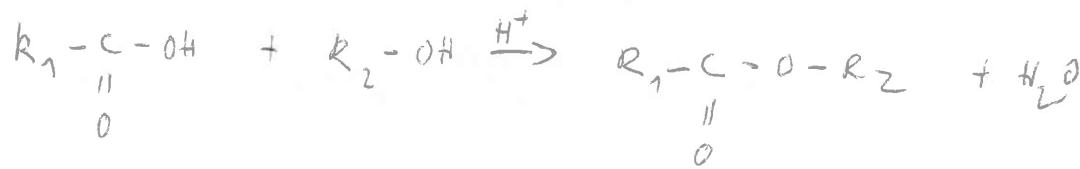


methyl - ethanoat

octan methylnaty' $\xrightarrow{\text{methyl-naty'}}$

methylester sys. acetate'

príprava - esterifikácia

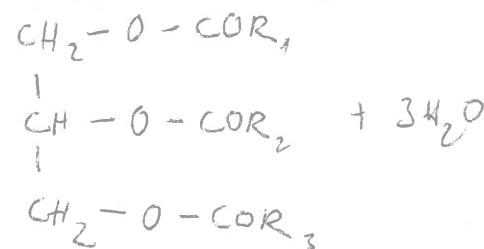
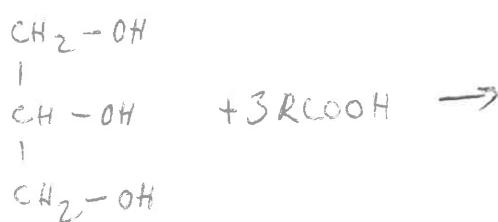


- anhydrid s alkoholem

- acylace alkoholu

platnosti - napoliny, príjemna ovocia' vlny,

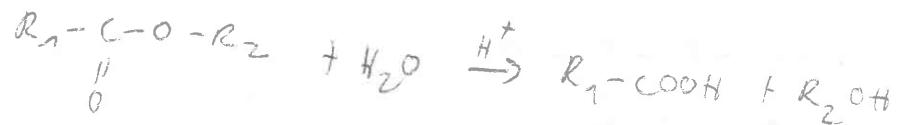
- estery glycerolu súv. s kys. tuky



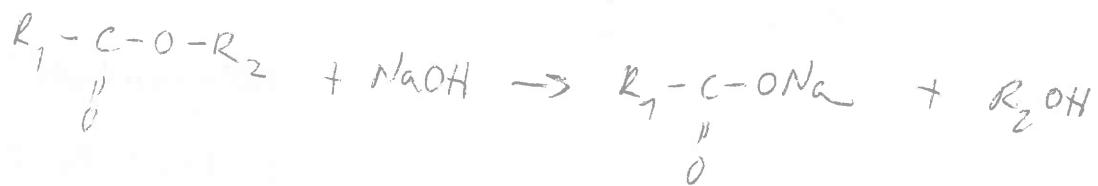
triglycerid

$R>HC \Rightarrow \text{suk}$

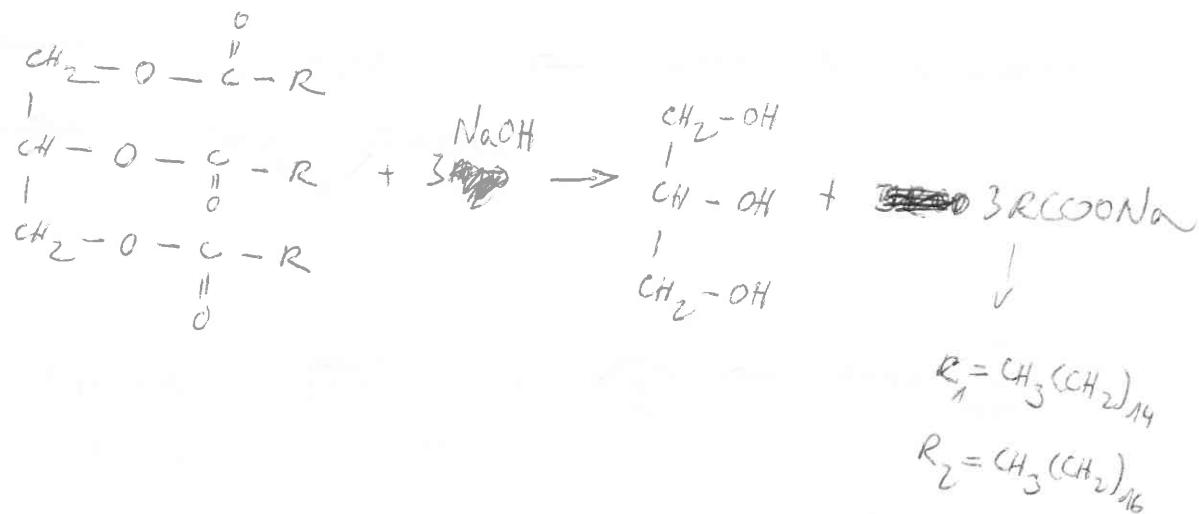
hydrolyza - hydroliza'



- alkohola'

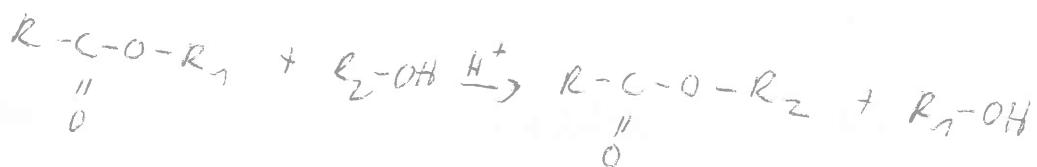


výsledkem alkohola' hydrolyzy triglyceridu jsou myčky



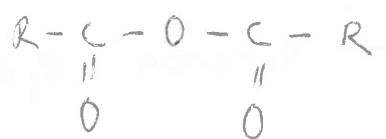
R_1 = palmitan $\xrightarrow{\text{kláva'}}$
 R_2 = stearan $\xrightarrow[\text{myčka}]{\text{stoky'}}$

reesterifikace -



ANHYDRIDIY - vervalg spesem van doon karbo. syrin ra ods'kepm' vdy

def. more



naamloos'



anhydrid lys. octore'

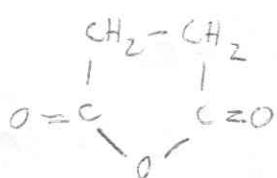
ethaanhydrid

aceeanhydrid

oxygée symetrie'



\rightarrow



anhydrid d. jontarore'

succinanhydrid



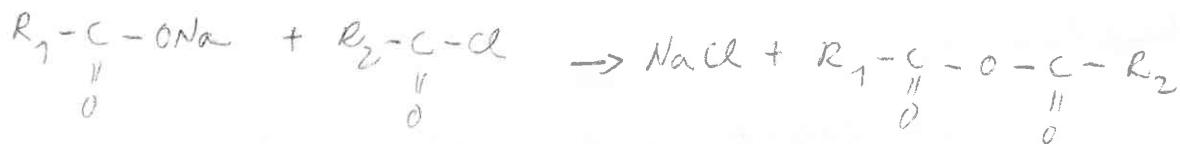
\rightarrow



benzenkarboanhydrid

anhydrid lys. stenoo'e'

práva -

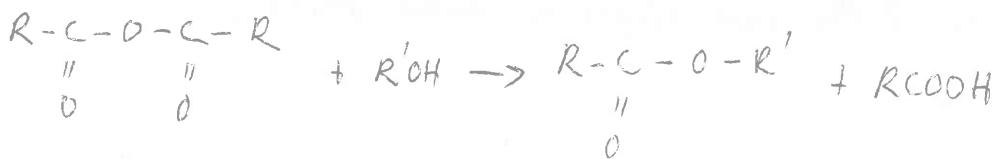
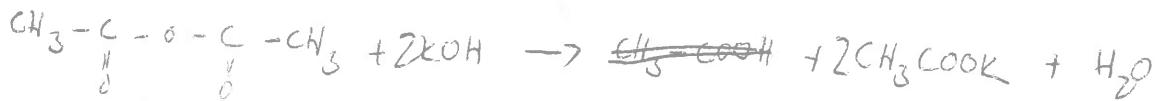
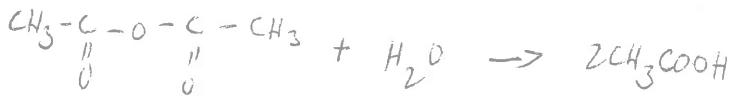


sol

acylhalogen

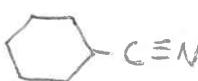
anhydrid

vlastnosti - monokarbonylové - kapaliny, ostatní - pevné látky
- rozpachají, reagují s vodou (vn. karb. dys.)

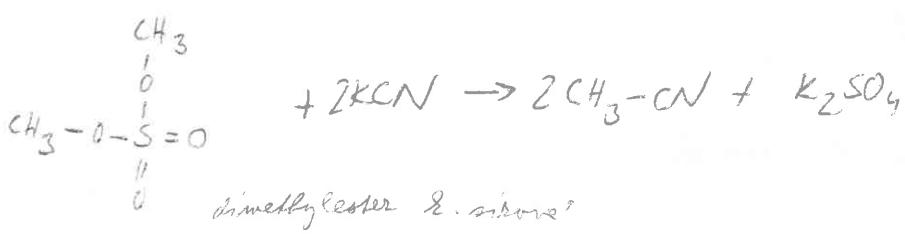


NITRILY - obsahují N. $\text{C}\equiv\text{N}$

nitrózová $\text{CH}_3-\text{C}\equiv\text{N}$ ethanitril
acetonitril
nitril dys. oboje'

 benzencarbonitrile
benzonitrile
nitril dys. kurovo'

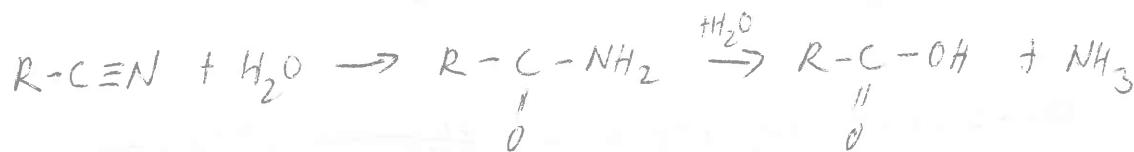
práce - $\text{CH}_3\text{Cl} + \text{KCN} \rightarrow \text{CH}_3\text{CN} + \text{KCl}$



chloroacetyl - kapalne' reakce pone' lásky (místo' kopolym. krm')

- jsou jedovaté

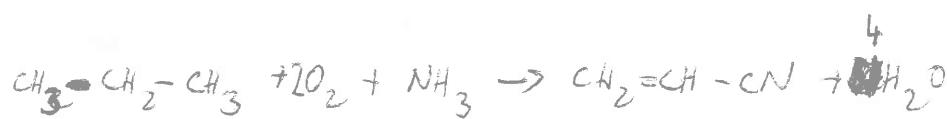
- hydrolyza' přebírá' na amidy (a na kyseliny)



- acrylonitril $CH_2=CH-CN$

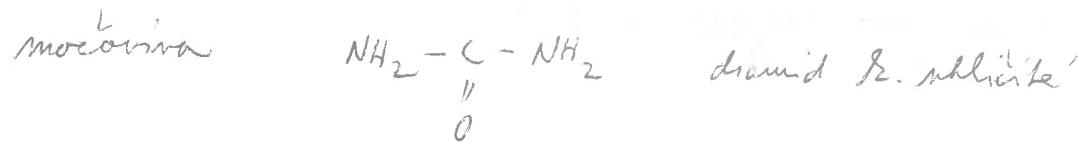
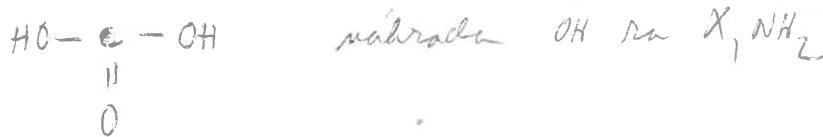
- výrob.' látek pro zpracov. synt. vláken

- výroba



- cyanovodík, nitril rys. mrazení HCN

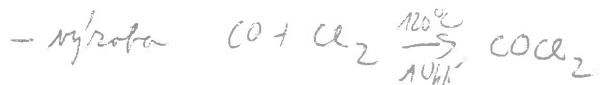
Deriváty kyseliny můstkovité'



- drogové, výroba plastů



fosgen $\text{Cl}-\underset{\substack{\parallel \\ \text{O}}}{\text{C}}-\text{Cl}$ dichlorid dus. ubikite'



Substituční deriváty karboxylových kyselin

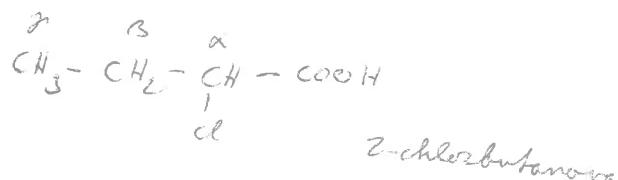


— I

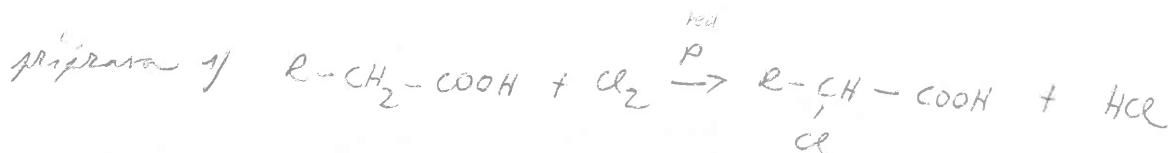
X

- halogenkyseliny
- oxokyseliny
- aminkyseliny
- iminkyseliny
- hydroxykyseliny

halogenkyseliny - Cl, Br, I

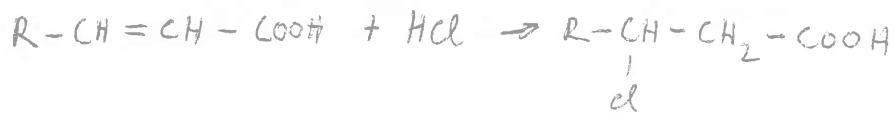


k. α -chloroanálová

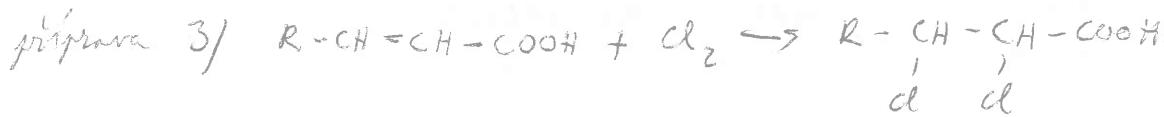


α -halogenkyselina

príprava 2)

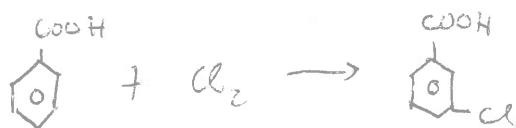


β -halogen kyselina



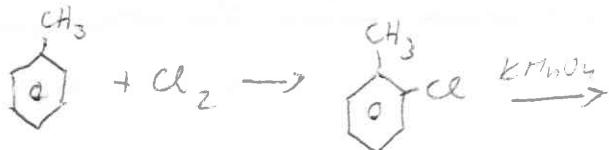
α, β -dichlorkyselina

príprava 4)



metachlorbenzoová k.

príprava 5)

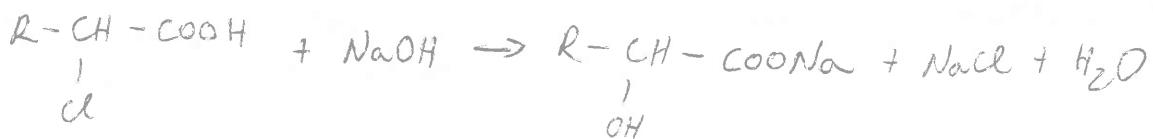


orthochlork. k.

plastnosti - kyseliny, silnéjší než norm. karb. kyseliny

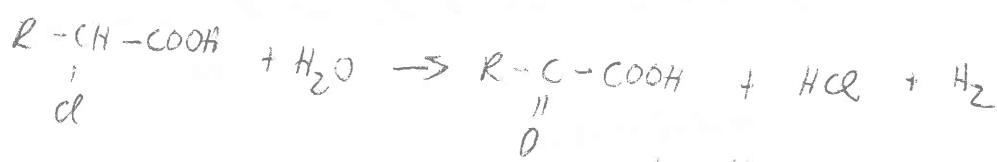
- krystalické látky, jedovate

- α -hal.kyseliny s hydroxidem



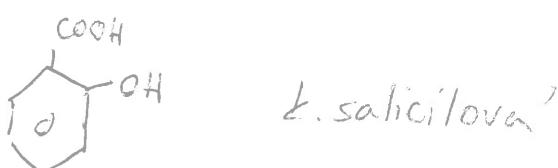
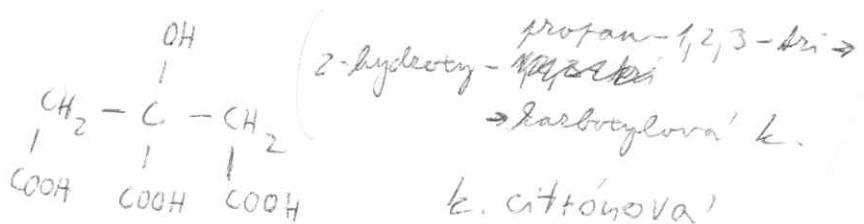
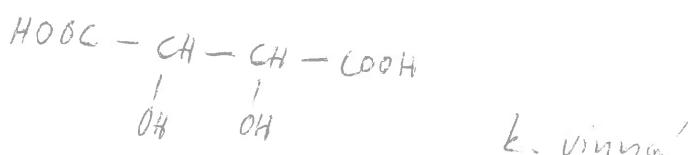
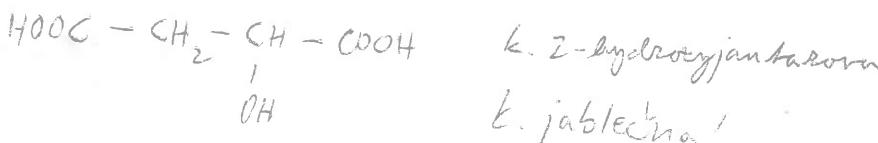
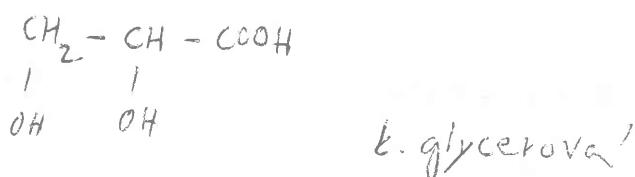
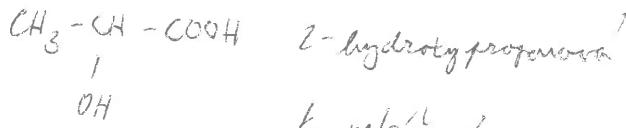
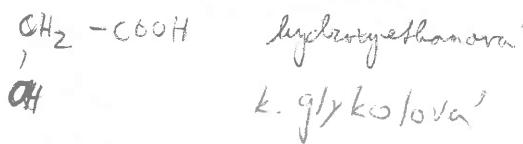
síl hydroxykyseliny

- α -hal.kyselina s vodom



oxokyselina

hydroxykyseliny -



průzračná / α -hal. kyselina s vodou

