



9.

seminář LC

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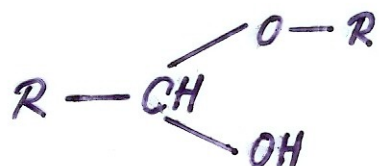
alkohol, fenol



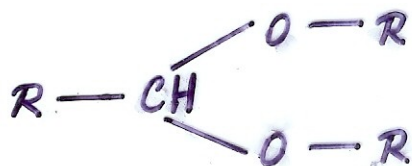
eter



hydroperoxid



poloacetal
(cyklické
formy cukrů)



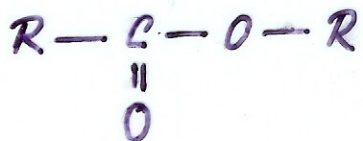
acetal (ev. glykosid)



keton



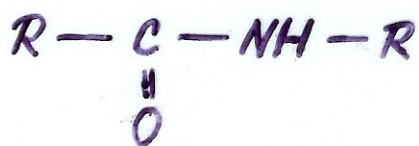
kyselina



ester (ev. lakton)



anhydrid kyseliny



amid (ev. laktam)

CARBOXYLIC ACIDS



acyl-

substitution derivatives

functional derivatives

- OH

hydroxy carboxylic acids



aldehydo. ——— " ———



keto. ——— " ———

- NH₂

amino. ——— " ———

- (Cl)

halogen. ——— " ———

- COCl
acyl halides

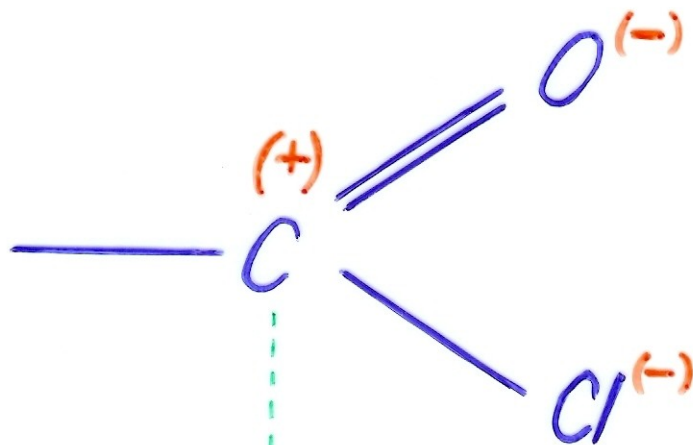
- CO-O-
esters

- CONH₂
amides

(-C≡N)
nitriles

not more acidic

Acylohalogenid



elektrofilnost uhlíku jakožto (+),
možnost reakce s nukleofilními činidly

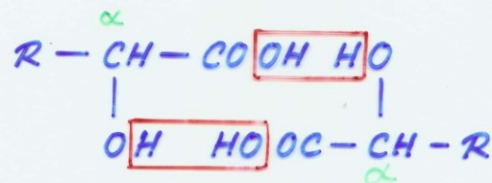
↓
elektrofilnost uhlíku jakožto (+),
možnost reakce s nukleofilními činidly

↓
mají přebytek e^-



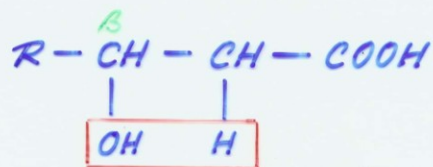
HYDROXYKYSELINY

α -



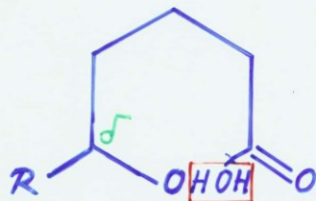
esterifikace 2 molekul \rightarrow laktid
<dvě>

β -



\rightarrow α, β -nenasyčená
mastná kys.

γ, δ -



esterifikace uvnitř
1 molekuly \rightarrow γ -lakton
<one>

MONOKARBOXYLOVÉ KYSELINY MONOCARBOXYLIC ACIDS

	nasyčené saturated	nenasyčené unsaturated	-OH	=O	-NH ₂
C ₁	mravenčí formic <i>acidum formicum</i>		uhličitá carbonic		
C ₂	octová acetic <i>acidum aceticum</i>				Gly
C ₃	propionová propionic <i>ac. propionicum</i>	akrylová acrylic	mléčná lactic (Ser)	pyrohroznová pyruvic	Ala (α-, β-)
C ₄	másečná butyric <i>acidum butyricum</i>	krotonová crotonic	β-hydroxymásečná β-hydroxybutyric (Thr)	acetooctová acetoacetic	GABA (Met)
C ₅	valerová valeric <i>acidum valericum</i>			levulová levullinic (δ-aminolevulová) (δ-aminolevullinic)	Orn (diamino-) (Arg)

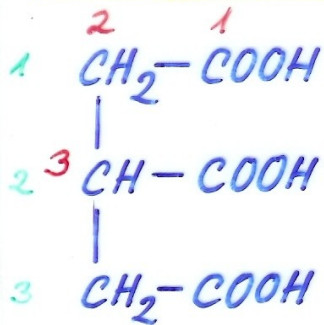
DIKARBOXYLOVÉ KYSELINY

DICARBOXYLIC ACIDS

	nasyčené saturated	nenasyčené unsaturated	-OH	=O	-NH ₂
C ₂	šťaťavelová oxalic <i>acidum oxalicum</i>				
C ₃	malonová malonic <i>acidum malonicum</i>			mesoxalová mesoxalic	
C ₄	jantarová succinic <i>acidum succinicum</i>	fumarová fumaric <i>ac. fumaricum</i>	jablečná (1 OH) malic <i>acidum malicum</i> vinná (2 OH) tartaric	oxaloctová oxaloacetic	Asp
C ₅	glutarová glutaric <i>acidum glutaricum</i>			2-oxoglutarová 2-oxoglutaric	Glu

TRIKARBOXYLOVÉ KYS. TRICARBOXYLIC ACIDS

trikarballylová kys.
tricarballylic acid

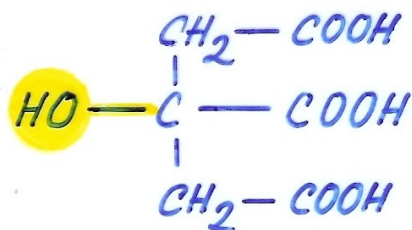


1,2,3 - propan·tri·karboxylová

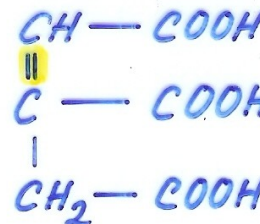
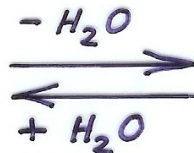
1,2,3 - propane·tri·carboxylic

3-karboxy-penta·diová kys.

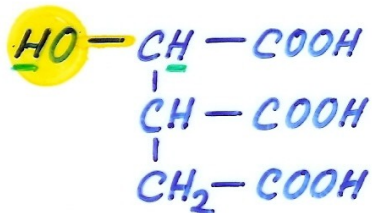
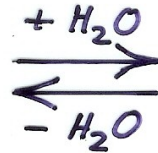
3-carboxy-pentane·dionic acid



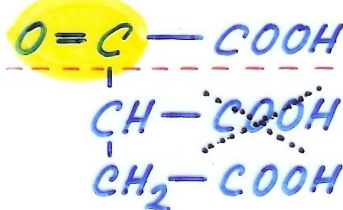
citronová
citric



akonitová
aconitic



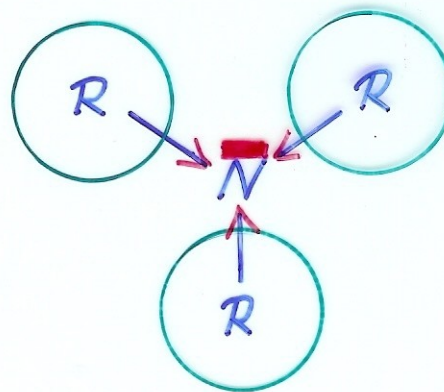
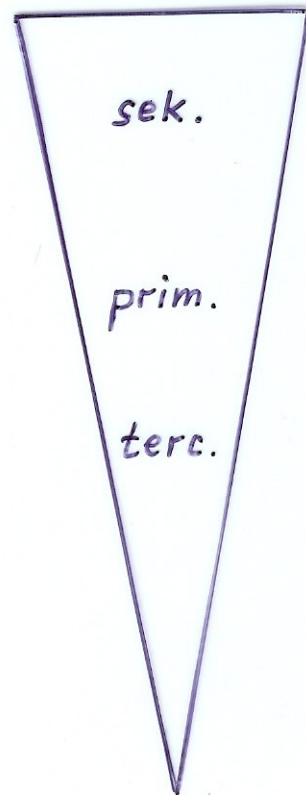
izo-citronová
isocitric

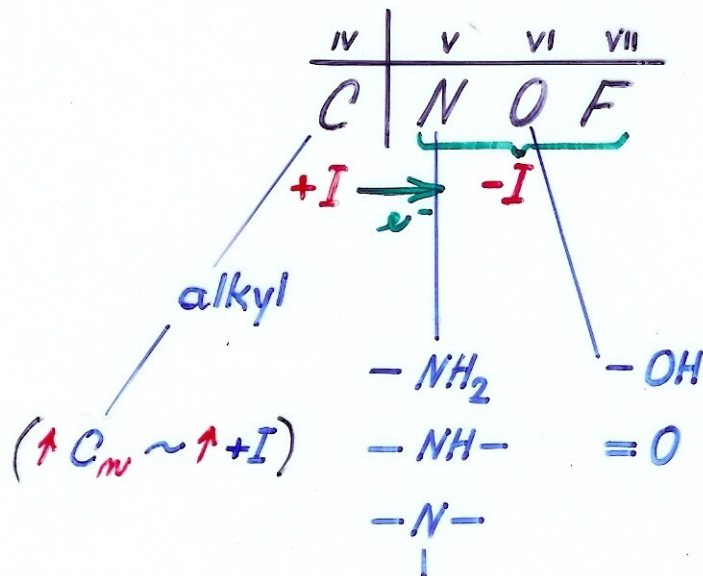


oxal(jant)arová
oxalosuccinic

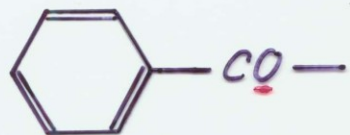


oxal(j) -

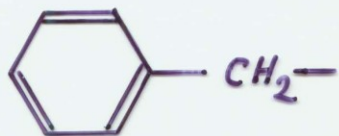




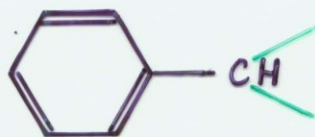
- název: výsledný stav
- "součet" I



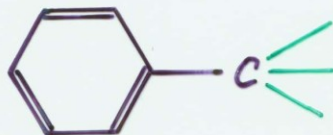
benzoyl-



benzyl-



benzylidene



benzylidine



fenyl-



tolyl-

(různá polohy
o-, m-, p-)

