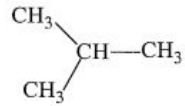
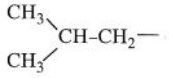
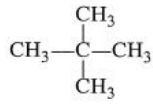
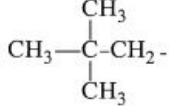
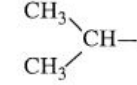
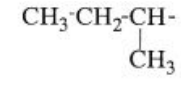
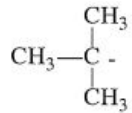
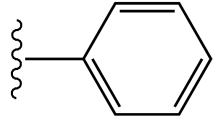
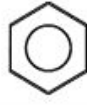
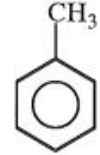
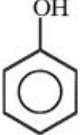
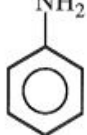

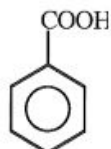
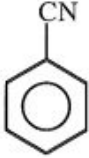
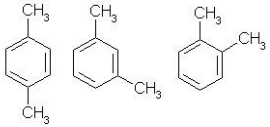


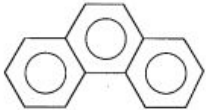
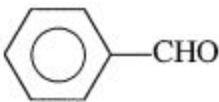
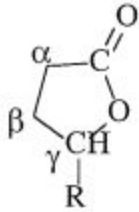
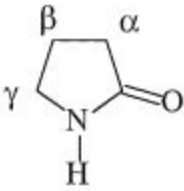
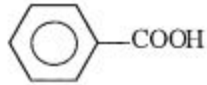
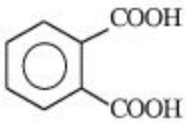
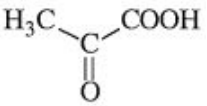
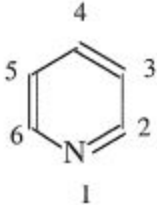
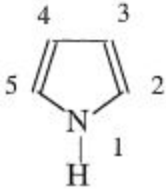
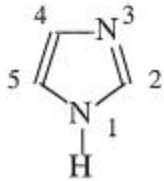
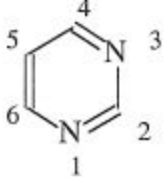


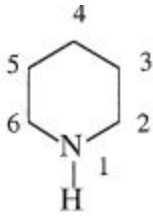
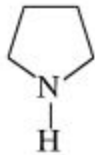
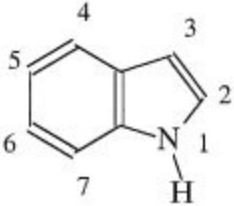
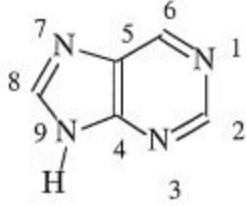
EXAMEN ORGANISCHE CHEMIE: NOMENCLATUUR

TRIVIALE NAMEN			
isobutaan		isobutyl	
neopentaan		neopentyl	
isopropyl			
sec-butyl		tert-butyl of t-butyl	
fenyl			
benzeen		tolueen (methylbenzeen)	
fenol (hydroxybenzeen)		aniline (aminobenzeen)	
benzaldehyd (benzeencarbaldehyd)		benzoëzuur (benzeencarbonzuur)	

benzonitril (benzeencarbonitril)		xyleen	
naftaleen (C ₁₀ H ₈)		antraceen (C ₁₄ H ₁₀)	
fenantreen (C ₁₄ H ₁₀)			
isopreen	$\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_2=\text{CH}-\text{C}=\text{CH}_2 \end{array}$	allyl (voor 2-propenyl)	$\text{CH}_2=\text{CH}-\text{CH}_2-$
vinyl (voor ethenyl)	$\text{CH}_2=\text{CH}-$	methyleen (ook voor -CH ₂ -)	$\text{CH}_2=$
formaldehyd methanal	HCHO	acetaldehyd ethanal	CH_3CHO
propionaldehyd propanal	$\text{CH}_3\text{CH}_2\text{CHO}$	butyraldehyd butanal	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$
benzaldehyd benzeencarbaldehyd'			
aceton propanon	$\text{CH}_3-\text{CO}-\text{CH}_3$		
lacton cyclisch ester <i>α</i> : driering <i>β</i> : vierring <i>γ</i> : vijfkring	 een <i>γ</i> -lacton	lactam cyclisch amide <i>α</i> : driering <i>β</i> : vierring <i>γ</i> : vijfkring	 een <i>γ</i> -lactam

mierenzuur methaanzuur formiaat	HCOOH	azijnzuur ethaanzuur acetaat	CH ₃ COOH
propionzuur propaanzuur propionaat	CH ₃ CH ₂ COOH	boterzuur butaanzuur butyraat	CH ₃ (CH ₂) ₂ COOH
isoboterzuur 2-methylpropaanzuur isobutyraat	(CH ₃) ₂ CHCOOH	valeriaanzuur pentaanzuur valeraat	CH ₃ (CH ₂) ₃ COOH
caprinezuur hexaanzuur capraat	CH ₃ (CH ₂) ₄ COOH	pivalinezuur 2,2-dimethylpropaanzuur pivalaat	(CH ₃) ₃ CCOOH
laurinezuur lauraat	CH ₃ (CH ₂) ₁₀ COOH	myristinezuur myristaat	CH ₃ (CH ₂) ₁₂ COOH
palmitinezuur palmitaat	CH ₃ (CH ₂) ₁₄ COOH	stearinezuur stearaat	CH ₃ (CH ₂) ₁₆ COOH
oxaalzuur 1,2-ethaandizuur oxalaat	COOH-COOH	malonzuur 1,3-propaandizuur malonaat	COOH-CH ₂ -COOH
barnsteenzuur succinaat	COOH-(CH ₂) ₂ -COOH	glutaarzuur glutaraat	COOH-(CH ₂) ₃ -COOH
oliezuur oleaat	CH ₃ -(CH ₂) ₇ -CH=CH-(CH ₂) ₇ -COOH (cis)	maleïnezuur maleaat	HOOC-CH=CH-COOH (Z)

fumaarzuur fumaraat	$\text{HOOC-CH=CH-COOH (E)}$	benzoëzuur benzeencarbonzuur benzoaat	
ftaalzuur ftalaat		glycolzuur 2-hydroxyethaanzuur glycolaat	$\text{HOCH}_2\text{-COOH}$
melkzuur 2-hydroxypropaanzuur lactaat	$\text{CH}_3\text{-CHOH-COOH}$	wijnsteenzuur tartraat	$\text{HOOC-(CHOH)}_2\text{-COOH}$
glyoxylzuur 2-oxo-ethaanzuur glyoxylaat	OHC-COOH	pyrodruivezuur 2-oxopropaanzuur pyruvaat	
adipinezuur adipaat	$\text{COOH-(CH}_2\text{)}_4\text{-COOH}$		
pyridine		pyrrool	
imidazool		pyrimidine	

piperidine		pyrrolidine	
indool		purine	

Aantal

C-atomen

Formule

Naam

1	CH ₄	methaan	CH ₄
2	C ₂ H ₆	ethaan	CH ₃ -CH ₃
3	C ₃ H ₈	propaan	CH ₃ -CH ₂ -CH ₃
4	C ₄ H ₁₀	butaan	CH ₃ -CH ₂ -CH ₂ -CH ₃
5	C ₅ H ₁₂	pentaan	...
6	C ₆ H ₁₄	hexaan	...
7	C ₇ H ₁₆	heptaan	...
8	C ₈ H ₁₈	octaan	
9	C ₉ H ₂₀	nonaan	
10	C ₁₀ H ₂₂	decaan	
11	C ₁₁ H ₂₄	undecaan	
12	C ₁₂ H ₂₆	dodecaan	
13	C ₁₃ H ₂₈	tridecaan	
14	C ₁₄ H ₃₀	tetradecaan	
15	C ₁₅ H ₃₂	pentadecaan	
16	C ₁₆ H ₃₄	hexadecaan	
17	C ₁₇ H ₃₆	heptadecaan	
18	C ₁₈ H ₃₈	octadecaan	
19	C ₁₉ H ₄₀	nonadecaan	
20	C ₂₀ H ₄₂	eicosaan	

Klasse	Formule	Voorvoegsel	Achtervoegsel
Carbonzuren	-COOH	carboxy	-carbonzuur
	-(C)OOH	...	-zuur
Sulfonzuren	-SO ₃ H	sulfo	-sulfonzuur
Zouten van carbonzuren	-COOM	...	metaal...carboxylaat
	-(C)OOM		metaal...oaat
Esters	-COOR	alkoxycarbonyl	alkyl...carboxylaat
	-(C)OOR	...	alkyl...oaat
Zuurhalogeniden	-CO-halogeen	halogeenformyl	-carbonylhalogenide ...oylhalogenide
Amiden	-CO-NH ₂	carbamoyl	-carbonamide
	-(C)O-NH ₂	...	-amide
Nitrillen	-C=,N	cyaan	-carbonitril
	-(C)=,N		-nitril
Aldehyden	-CHO	formyl	-carbaldehyd
	-(C)HO	oxo	-al
Ketonen	(C)=O	oxo	-on
Alcoholen	-OH	hydroxy	-ol
Thiolen	-SH	mercapto	-thiol
Aminen	-NH ₂	amino	-amine
Iminen	=NH	imino	-imine

Mogen enkel als voorvoegsel gebruikt worden :

Halogeenalkanen	{ -Br Broom, -Cl Chloor, -F Fluor, -I Jood
Nitrosoverbindingen	-NO Nitroso
Nitroverbindingen	-NO ₂ Nitro
Ethers	-OR R-oxy
Sulfiden	-SR R-thio