C. LAZZ/nx Lowy, Alexander

Organic type formulas





My 1891.

ORGANIC TYPE FORMULAS

COMPILED BY

ALEXANDER LOWY, Ph. D.

Assistant Professor of Organic Chemistry, University of Pittsburgh.



156116/20

NEW YORK
D. VAN NOSTRAND COMPANY
EIGHT WARREN STREET
1920

ORGANIC TYPE FORMULAS ALIPHATIC SERIES

	COLUMN I		COLUMN II			
HYDROCARBONS				-0	.0	.0
SATURATED	UNSATURATED			H3C-C-0	-c.0	R-C.0 R-C.0
PARAFFINS-	OLEFINES =	ACETYLENE		H3C-C 0	- c > 0	R-C
Cn H2n+2 ALK.ANES	CnH2n ALKENES	CnH2n ALKINE	5	ACETIC ANHYDRIC	E ANHYDRIDE GROUP	ANHYDRIDES
H	5 56			H3C-C=0	- Ç=0	R-C=0
H-C-H METHANE		NATA .	-	NH2	NH2	NH ₂
н		700000000000000000000000000000000000000		ACETAMIDE	AMIDE GROUP	AMIDES
88	H H ETHYLENE	H H ACETY	ENE	H.C-C=0	R-Ç=0	R-C=0
H-CTC-H ETHANE	H H ETHYLENE	CEC ETHIN	E	H ₃ C-C=O	ACYL GROUP	N V
н́н	HHEIMENE			ACETYL CHLOR		ACYL HALIDES
ALKYL HALIDES				SUBS	STITUTED A	ACIDS
H R-X X-HALOGEN				H.C-COOH		
H-C-CI		RALKYL		H₂Ç-COOH		H2C-COOH
Ĥ	CH'3	ALKYL GROU	P=D	CI	он	NH ₂
METHYL CHLORI				CHLOROACETIC ACI	O HYDROXYACETIC ACID	
ALCOHOLS				H₂Ç	-COOH H ₂ C	СООН
H ALCOHOLS				CYANOACE	14	IIC ACID
н-с-он	-OH	H-C-0				
METHANOL '	ALCOHOL GROUP	SODIUM METHI	OXIDE		AMINES	
METHYL ALCOHOL		SODIUM METHY	LATE		H H	-CH _s
Marie Marie				STATE OF THE PARTY NAMED IN	N-H N-CH	
R-C-0H	R-C-OH	R-C-0			CH ₃ CH ₁	
Ĥ	Ĥ	Ř-		M-H MEIN	AMINE	TRIMETHYL AMINE
PRIMARY ALCOHOL	SECONDARY	TERTIAR	Y	N-H METH	AT-H M-H	NI-R
ETHERS			AMMONIA	N-H N-R	IN . R	
H H			PRIM	ARY AMINE SECONDAR		
н-с-о-с-н	-0-	R-0-R				
H H	ETHER GROUP		911	R-0-N=0	R-N*0	R-0-N-0
METHYL ETHER		ETHERS	1	NITRITES	NITRO COMPOUNDS	NITRATES
ALDEHYDES)				NITRILES	SEALKYL C	YANIDES
н	/ -C=0 1	R-C=O	0:0	H ₃ C-C≣N		1
H-Ç-Ç-0	-4-0			ACETONITRILE	-CEN	R-CIN
HH ETHANAL OR	ALDEHYDE GROUP	Н	10	METHYL CYANID	NITRILE GROUP	NITRILES
ACETALDEHYDE		LDEHYDES	0			() A DAIDIEC
	KETONES		ARB	ISONITR	ILES ECARBY	LAMINES
н н		aller I	0	H3C-N=C	-N-C	D.N.C
н-ç-с-ç-н н о н	-C-	R-C-R	9	METHYL ISOCYAN	IDE -NEC	R-N=C
нон	Ö	Ö		METHYL CARBYL	AMINE	DE CARBILLININGS
PROPAN ONE	ROPAN ONE KETONE GROUP KETONES					
ACETONE	KETONE GROUP	KETONES		SULF		
ACETONE		KETONES	G	HsC-SH	SH	R-SH
ACETONE	ACIDS		LGR	HaC -SH METHYL MERCAP	SH TAN MERCAPTAN GROU	R-SH IP MERCAPTANS
H H-C-C=O	ACIDS -C=0	R-Ç-0	LGROU	H ₃ C - SH METHYL MERCAP H ₃ C - S-CH ₃	SH TAN MERCAPTAN GROU	R-SH IP MERCAPTANS R-S-R
H H-c-c=O H OH	ACIDS -DZ0	R-C-O	ROU	H ₃ C - SH METHYL MERCAP H ₃ C - S - CH ₃ METHYL SULFID	SH TAN MERCAPTAN GROU S - S - E THIO-ETHER GROUP	R-SH IP MERCAPTANS R-S-R THIO-ETHERS
H H-C-C=O H OH	ACIDS -DZ0	R-C-O	GROUP	H3C-SH METHYL MERCAP H3C-S-CH3 METHYL SULFID R-S-S-R	SH TAN MERCAPTAN GROU S - S - E THIO-ETHER GROUP R-S-M	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH
H H-C-C=O H OH	ACIDS -C=0	R-C-O	ROU	H3C-SH METHYL MERCAP H3C-S-CH3 METHYL SULFID R-S-S-R DISULFIDES	TAN MERCAPTAN GROUP THIO-ETHER GROUP R-S-M MERCAPTIDES	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH THIO-ACIDS
H-C-C=O H OH ETHAN OICACIO AGETIC ACID	ACIDS -C=0 OH CARBOXYL GROU	R-C-O OH P ACIDS	ROU	H3C-SH METHYL MERCAP H3C-S-CH3 METHYL SULFID R-S-S-R	SH TAN MERCAPTAN GROU S - S - E THIO-ETHER GROUP R-S-M	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH THIO-ACIDS
H H-C-C=O H OH ETHAN OF CACID ACETIC ACID	ACIDS -C=0 OH CARBOXYL GROU	R-C-O OH P ACIDS	ROUP	H3C-SH METHYL MERCAP H3C-S-CH3 METHYL SULFID R-S-S-R DISULFIDES	TAN MERCAPTAN GROUP THIO-ETHER GROUP R-S-M MERCAPTIDES	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH
H-C-C-O H OH ETHAN OLCACIO ACETIC ACID ACID H ₃ C-C=O	ACIDS -C=0 OH CARBOXYL GROU DERIVAT	R-C-O OH P ACIDS	ROUP	H3C-SH METHYL MERCAP H3C-S-CH3 METHYL SULFID R-S-S-R DISULFIDES R>S=0 SULFOXIDES	TAN MERCAPTAN GROUF E THIO-ETHER GROUF R - S - M MERCAPTIDES R S 0 SULFONES	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH THIO-ACIDS R-SO HO-SO SULFONIC ACIDS
H H-C-C=O H OH ETHAN OF CACID ACETIC ACID	ACIDS -C=0 OH CARBOXYL GROU DERIVAT	R-C-O OH P ACIDS	ROUP	H ₃ C - SH METHYL MERCAP H ₃ C - S - CH ₃ METHYL SULFID R-S - S - R DISULFIDES R S = 0 SULFOXIDES METALLI	TAN MERCAPTAN GROUP THIO-ETHER GROUP R-S-M MERCAPTIDES R>S*0 R>S*0	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH THIO-ACIDS R-SO HO-SO SULFONIC ACIDS
H-C-C-O H OH ETHANOUS ACETIC ACID ACETIC ACID H ₃ C-C-O ONA SODIUM ACETATE	ACIDS -C=0 OH CARBOXYL GROU DERIVAT -C=0 OM M: SALT GROUP	R-C-O OH P ACIDS	ROUP	H3C-SH METHYL MERCAP H3C-S-CH METHYL SULFID R-S-S-R DISULFIDES RS=0 SULFOXIDES METALLI Mg CBH Mg C2Hg	TAN MERCAPTAN GROUF E THIO-ETHER GROUF R - S - M MERCAPTIDES R S 0 SULFONES C ALKYL COI	R-SH IP MERCAPTANS R-S-R THIO-ETHERS R-COSH THIO-ACIDS R-SO HO-SO SULFONIC ACIDS
H-C-C=O H OH ETHAN OIFACIO ACETIC ACID ACID H ₃ C-C=O ONa SODIUM ACETATE H ₃ C-C=O	ACIDS -C=0 OH CARBOXYL GROU DERIVAT -C=0 SALT GROUP -C=0	R-C-O OH P ACIDS	ROUP	H3C-SH METHYL MERCAP H3C-S-CH METHYL SULFID R-S-S-R DISULFIDES R S=0 SULFOXIDES METALLI Mg Mg Can Managesium eth	TAN MERCAPTAN GROUF E THIO-ETHER GROUF R - S - M MERCAPTIDES R S 0 SULFONES C ALKYL COI	R-SH MERCAPTANS R-S-R THIO-ETHERS R-COSM THIO-ACIDS R-S-O SULFONIC ACIDS
H-C-C-O H OH ETHAN OICACIO ACETIC ACID ACETIC ACID ACETIC ACID ONA SODIUM ACETATE H ₃ C-C=O OCH ₃	ACIDS -C=0 OH CARBOXYL GROU DERIVAT -C=0 OM Min SALT GROUP -C=0 OR	R-C-O OH P ACIDS	ROUP	H3C-SH METHYL MERCAP H3C-S-CH METHYL SULFID R-S-S-R DISULFIDES R S=0 SULFOXIDES METALLI Mg Mg Can Managesium eth	TAN MERCAPTAN GROU E THIO-ETHER GROUF R-S-M MERCAPTIDES RS-0 SULFONES C ALKYL COI YLBROMIDE MCX R	R-SH P MERCAPTANS R-S-R THIO-ETHERS R-COSM THIO-ACIDS ROSS SULFONIC ACIDS MPOUNDS MMg.Zn.etc
H-C-C=O H OH ETHAN OF ACID ACETIC ACID M3C-C=O ONA SODIUM ACETATE H3C-C=O OCH3 METHYL ACETATE	ACIDS -C=0 OH CARBOXYL GROU DERIVAT -C=0 SALT GROUP -C=0	R-C-O OH P ACIDS FIVES R-C METAL SI R-C C EST	ROUP	H3C-SH METHYL MERCAP H3C-S-CH METHYL SULFID R-S-S-R DISULFIDES RS=0 SULFOXIDES METALLI Mg CBH Mg C2Hg	TAN MERCAPTAN GROU E THIO-ETHER GROUF R-S-M MERCAPTIDES RS-0 SULFONES C ALKYL COI YLBROMIDE MCX R	R-SH MERCAPTANS R-S-R THIO-ETHERS R-COSM THIO-ACIDS R-S-O SULFONIC ACIDS

ORGANIC TYPE FORMULAS AROMATIC SERIES

M COLUMN I	COLUMN II		
BENZENE	PHENOLS - ALCOHOLS - ETHERS		
HC CON OR S OR OR OR S OR OR OR OR S OR	PHENOL CATECHOL RESORCINOL MYDROQUINONE CHS PYROGALLOL A-HAPHTHOL OCHE OCHE OCHE OCHE OCHE OCHE OCHE OCHE		
MONOLUSTITUTE ONTHO-CONPOUNDS oF HETA-COMPOUNDS: MARA-BENZENE MEZ-AND 1-SECRETICAL 113-AND 1-SECRETICAL CONPOUNDS: P	BENZALDEHYDE SALICYLIC ALDEHYDE CINNAMIC ALDEHYDE		
MAGENT CHA MAGENT CH MAGENT CH MAGENT CH MAGENT CHA	ACETOPHENONE BENZOPHENONE BENZOQUINONE OF BENZOQUINONE		
BENZENE METHYL BENZENE - DIMETHYL BENZENE	& HAPHTHOQUINONE B-NAPHTHOQUINONE ANTHRAQUINONE		
NAPHTHALENE ANTHRACENE PHENANTHRENE	ACIDS AND RELATED COMPOUNDS		
HALOGEN COMPOUNDS	BENZOYL CALORIDE BENZONTRUE THIRDSENZON ACID PRENTLACETIC ACID COOM COOM COOM COOM COOM COOM COOM COO		
ON DATION AND HAM HAM - NAME OF THE PROPERTY O	NOTA DYE NOTA DYE NOTA DYE NOTA DYE NOTA DYE		
DIAZO AND AZO COMPOUNDS THE COMPOUNDS BENZENEDIAZONICH CHLORIDE DIAZOBENZENE CHLORIDE NN N N N N N N N N N N N N N N N N N	HETEROCYCLIC COMPOUNDS HOW HAD THIOPHENE PYRROLE INDOLE HIS CHIE ME		

Heavy Lines indicate Double Bonds. Light Lines indicate Single Bonds.



Author Lowy, Alexander [comp.] 156116
Organic type formulas

University of Toronto Library

DO NOT REMOVE THE CARD FROM THIS POCKET



