

Abbreviation List

Descriptors	
<i>o</i> -	ortho
<i>m</i> -	meta
<i>p</i> -	para
<i>n</i> -	normal
<i>prim</i> -	primary
<i>sec</i> -	secondary
<i>tert</i> -	tertiary
α -	alpha
β -	beta
γ -	gamma
δ -	delta
ϵ -	epsilon
η -	eta
μ -	mu
τ -	tau(tele)
ω -	omega
<i>B</i> -	boron position
<i>N</i> -	nitrogen position
<i>O</i> -	oxygen position
<i>P</i> -	phosphorus position
<i>S</i> -	sulfur position
<i>cis</i> -	cis form
<i>trans</i> -	trans form
<i>(Z)</i> -	Z (zusammen) form
<i>(E)</i> -	E (entgegen) form
<i>threo</i> -	threo form
<i>erythro</i> -	erythro form
<i>D</i> -	D form
<i>L</i> -	L form
<i>DL</i> -	DL form
<i>d</i> - or (+)-	dextro rotation
<i>l</i> - or (-)-	levo rotation
<i>dl</i> - or (\pm)-	racemic mixture
<i>(R)</i> -	R (rectus) form
<i>(S)</i> -	S (sinister) form
<i>meso</i> -	meso form
<i>syn</i> -	syn form
<i>anti</i> -	anti form
<i>asym</i> -	asymmetric form
<i>s</i> - or <i>sym</i> -	symmetric form
<i>active</i> -	active form
<i>leuco</i> -	leuco form

Products / Ligands	
acac	Acetylacetone
AIBN	2,2'-Azobis(isobutyronitrile)
BINAP	2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl
BINOL	Binaphthol
BSA	<i>N,O</i> -Bis(trimethylsilyl)acetamide
CD	Cyclodextrin
CSA	Camphorsulfonic Acid
DABCO	1,4-Diazabicyclo[2.2.2]octane
DAST	(Diethylamino)sulfur Trifluoride
DBU	1,8-Diazabicyclo[5.4.0]-7-undecene
DCC	<i>N,N'</i> -Dicyclohexylcarbodiimide
DEAD	Diethyl Azodicarboxylate
DHP	3,4-Dihydro-2 <i>H</i> -pyran
DMA	<i>N,N</i> -Dimethylacetamide
DMAP	4-Dimethylaminopyridine
DMF	<i>N,N</i> -Dimethylformamide
dmit	4,5-Dimercapto-1,3-dithiole-2-thione
DMSO	Dimethyl Sulfoxide
DOXYL	4,4-Dimethyloxazolidine-1-oxyl
dppf	1,1'-Bis(diphenylphosphinoferrocene)
DVB	Divinylbenzene
EDC	3-(3-Dimethylaminopropyl)-1-ethylcarbodiimide
EDTA	Ethylenediaminetetraacetic Acid
Fc	Ferrocene
HMDS	1,1,1,3,3,3-Hexamethyldisilazane
HMPA	Hexamethylphosphoric Triamide
HMPT	Hexamethylphosphorous Triamide
HOAt	1-Hydroxy-7-azabenzotriazole
HOBt	1-Hydroxybenzotriazole
MCPBA	<i>m</i> -Chloroperoxybenzoic Acid
MEK	Methyl Ethyl Ketone
NBS	<i>N</i> -Bromosuccinimide
NCS	<i>N</i> -Chlorosuccinimide
NIS	<i>N</i> -Iodosuccinimide
NMO	4-Methylmorpholine <i>N</i> -Oxide
Pc	Phthalocyanine
PCC	Pyridinium Chlorochromate
PDC	Pyridinium Dichromate
PEG	Polyethylene Glycol
PG	Prostaglandin
PPTS	Pyridinium <i>p</i> -Toluenesulfonate
SDS	Sodium Dodecyl Sulfate
TBAF	Tetrabutylammonium Fluoride
TCNQ	7,7,8,8-Tetracyanoquinodimethane
TEMPO	2,2,6,6-Tetramethylpiperidine 1-Oxyl
TFA	Trifluoroacetic Acid
THF	Tetrahydrofuran
THP	Tetrahydropyran
TMTSF	Tetramethyltetraselenafuvalene
TNBS	2,4,6-Trinitrobenzenesulfonic Acid
TPD	<i>N,N'</i> -Diphenyl- <i>N,N'</i> -di(<i>m</i> -tolyl)benzidine
TTF	Tetrathiafulvalene

Protecting Groups / Functional Groups	
Ac	Acetyl-
Alloc	Allyloxycarbonyl-
Bn	Benzyl-
Boc	<i>tert</i> -Butoxycarbonyl-
Bz	Benzoyl-
Cbz	Carbobenzyloxy- (=Benzyloxycarbonyl-)
Dnp	2,4-Dinitrophenyl-
Fmoc	(9 <i>H</i> -Fluoren-9-ylmethoxy)carbonyl-
MEM	(2-Methoxyethoxy)methyl-
Mes	2,4,6-Trimethylphenyl- (=Mesityl-)
MOM	Methoxymethyl-
Ms	Methanesulfonyl-
Nps	2-Nitrophenylsulfonyl-
Ns	Nitrobenzenesulfonyl-
PMB	<i>p</i> -Methoxybenzyl-
SEM	2-(Trimethylsilyl)ethoxymethyl-
TBDMS	<i>tert</i> -Butyldimethylsilyl- (=TBS-)
TES	Triethylsilyl-
Tf	Trifluoromethanesulfonyl-
TIPS	Triisopropylsilyl-
TMS	Trimethylsilyl-
Tr	Triphenylmethyl- (=Trityl-)
Ts	<i>p</i> -Toluenesulfonyl- (=Tosyl-)
Z	=Cbz-

Stabilizers	
BHT	3,5-Di- <i>tert</i> -butyl-4-hydroxytoluene
HQ	Hydroquinone
MEHQ	Hydroquinone Monomethyl Ether (=4-Methoxyphenol)
ONP	<i>o</i> -Nitrophenol
TBC	4- <i>tert</i> -Butylcatechol
TBBP	3,3',5,5'-Tetra- <i>tert</i> -butyl-4,4'-dihydroxybiphenyl

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Nucleic Acids		
Symbol	Meaning	Designation
G	G	Guanine
A	A	Adenine
T	T	Thymine
U	U	Uracil
C	C	Cytosine
R	G or A	puRine
Y	T or C	pYrimidine
M	A or C	aMino
K	G or T	Keto
S	G or C	Strong interaction (3 H bonds)
W	A or T	Weak interaction (2 H bonds)
H	A or C or T	not-G, H follows G in the alphabet
B	G or T or C	not-A, B follows A
V	G or C or A	not-T (not-U), V follows U
D	G or A or T	not-C, D follows C
N	G or A or T or C	aNy

Amino Acids			
One-letter Symbol	Three-letter Symbol	Name	Average Mass(residue)
A	Ala	Alanine	71.08
C	Cys	Cysteine	103.14
D	Asp	Aspartic Acid	115.09
E	Glu	Glutamic Acid	129.11
F	Phe	Phenylalanine	147.17
G	Gly	Glycine	57.05
H	His	Histidine	137.14
I	Ile	Isoleucine	113.16
K	Lys	Lysine	128.17
L	Leu	Leucine	113.16
M	Met	Methionine	131.19
N	Asn	Asparagine	114.10
P	Pro	Proline	97.11
Q	Gln	Glutamine	128.13
R	Arg	Arginine	156.19
S	Ser	Serine	87.08
T	Thr	Threonine	101.11
V	Val	Valine	99.13
W	Trp	Tryptophan	186.21
Y	Tyr	Tyrosine	163.18

Three-letter Symbol	Name
Abu	2-Aminobutyric Acid
Aib	2-Aminoisobutyric Acid
Asu	2-Aminosuberic Acid
Cit	Citrulline
Cha	β -Cyclohexylalanine
Hci	Homocitrulline
Hyp	Hydroxyproline

Three-letter Symbol	Name
Nle	Norleucine
Nva	Norvaline
Orn	Ornithine
Pen	Penicillamine
Phg	Phenylglycine
Sar	Sarcosine
Sta	Statine

Saccharides			
Class	Symbol	Name	
Aldose	Pentose	Ara	Arabinose
		Lyx	Lyxose
		Rib	Ribose
		Xyl	Xylose
		Hexose	All
Alt	Altrose		
Gal	Galactose		
Glc	Glucose		
Gul	Gulose		
Ido	Idose		
Man	Mannose		
Tal	Talose		
Deoxymonosaccharide	Fuc		Fucose
	Rha		Rhamnose
	Qui	Quinovose	
	Abe	Abequose	
Aminomonosaccharide	GalN	Galactosamine	
	GlcN	Glucosamine	
	ManN	Mannosamine	
	GalNAc	<i>N</i> -Acetylgalactosamine	
	GlcNAc	<i>N</i> -Acetylglucosamine	
	ManNAc	<i>N</i> -Acetylmannosamine	
	Neu	Neuraminic Acid	
	Neu5Ac	<i>N</i> -Acetylneuraminic acid	
Uronic Acid	Neu5Gc	<i>N</i> -Glycolylneuraminic acid	
	GlcA	Glucuronic acid	
	GalA	Galacturonic acid	
	ManA	Mannuronic acid	

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