Abbreviation	Chemical Name	Molecular Formula	Structure
ACN	Acetonitrile	C2H3N	$H_3C-C\equiv N$
AcOH	Acetic acid	C2H4O2	H O H-C-C H O-H
t-BuOH	Tert-Butyl alcohol	C4H10O	H_3C H_3C H_3C
DCM	Dichloromethane	CH2Cl2	CI CI H
DMA	Dimethylacetamide	C4H9NO	H_3C CH_3 CH_3
DMF	Dimethylformamide	C3H7NO	H C CH ₃ CH ₃
DMPU	1,3-Dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone	C6H12N2O	H ₃ C CH ₃
DMSO	Dimethyl sulfoxide	C2H6OS	H ₃ C CH ₃
EtOH	Ethanol	C2H6O	OH
НМРТ	Hexamethylphosphoramide	C6H18N3OP	$\begin{array}{c} O \\ H_{3}C \\ P \\ P \\ CH_{3} \\ H_{3}C \\ N \\ CH_{3} \\ \end{array}$
MeOH	Methanol	CH4O	H C-O H
MTBE, TMBE	Methyl tert-butyl ether	C5H12O	H_3C CH_3 H_3C CH_3
PEG-r	Polyethylene glycol repeating unit	C2H4O	(NOTE: This is the FULL PEG molecule.)
TFA	Trifluoroacetic acid	C2HF3O2	F OH
THF	Tetrahydrofuran	C4H8O	
Reagents Abbreviation	Chamical Nama	Molocular Formula	Ctructuro
9-BBN	9-Borabicyclo(3.3.1)nonane	Molecular Formula C16H30B2	Structure
ACAC	Acetylacetone	C5H8O2	H ₃ C CH ₃
AIBN	Azobisisobutyronitrile	C8H12N4	$\begin{array}{c c} & H_3C & CH_3 \\ & N & N & C \\ & H_3C & CH_3 \end{array}$
BTI	(Bis(trifluoroacetoxy)iodo)benzene	C10H5F6IO4	F_3C O CF_3 O O
BuLi	N-Butyllithium	C4H9Li	H ₃ C Li
ВОР	BOP reagent	C12H22F6N6OP2	PF ₆ - N(CH ₃) ₂ O-P N (CH ₃) ₂
CDI	Carbonyldiimidazole	C7H6N4O	
COD	1,5-Cyclooctadiene	C8H12	
СОТ	Cyclooctatetraene	C8H8	
CPD	Cyclopentadiene	C5H6	
CSA	Camphorsulfonic acid	C10H16O4S	H ₃ C CH ₃ SO ₃ H
		/ 6	Another one:

Structure

Molecular Formula

Solvent

Abbreviation

Chemical Name

DAGCO				
2000 2.4 descripted 2.2 spectrum C0-1242				
2000 2.4 descripted 2.2 spectrum C0-1242				SO.H
2000 2-4 disserting-to-file 2 2 2 3 in terms Cell 1992 100 3				
DADO Directly (pleosine C4H8/IZD2	DABCO	1,4-diazabicyclo[2.2.2]octane	C6H12N2	
DADIC Disconsiderable CH80402 Discounting CH				'//N
DOM DISAC	DADO	Dimethylglyoxime	C4H8N2O2	HO_N_OH
DBU	DIDAU DIDAI DIDAI U	Diisahutylaluminium hydrida	C16U29AI2	$(CH_3)_2CHCH_2$ $CH_2CH(CH_3)_2$
DEN 1.5-Diszablogolot.4.2 Whon 5-ane C7H12N2 DEFO, BPD Be-zoy peroside C18H1504 DEC NAM-Dispolahery/carbod imide C19H2N2 DEC NAM-Dispolahery/carbod imide C7H14N2 DEAD Dispolahery/carbod imide C7H14N2 DEAD Dispolahery/carbod imide C7H14N2 DEAD Dispolahery/carbod imide C8H14N2O4 DEAD Dispolahery/carbod imide C8H14N2O4 DEAD Dispolahery/carbod imide C7H10N2 DEAD DISpolahery/carbod imide C8H14N2O4 DEAD C9 CH5 DEAD Dispolahery/carbod imide C8H14N2O4 DEAD C9 CH5 DEC C9	DIDAH, DIDAL, DIDAL-H	Disobutyialuminum nyunue	CTONSOAIZ	$(CH_3)_2CHCH_2$ $CH_2CH(CH_3)_2$
DBPO, BPO	DBU	1,8-Diazabicycloundec-7-ene	C9H16N2	
DBPO, BPO		4.5.5: 1: 1.42.0) 5	67114.2012	N
DCC NA* Dicyclohesylcorbodimide C13122N2	DRIV	1,5-Diazabicycio(4.3.0)non-5-ene	C/HIZNZ	N
DEAD Dietryl szedicirbosylate CH14N2 DEAD Dietryl szedicirbosylate CH10N2O4 Disopropyl azodicarbosylate CH10N2O4 Disopropyl azodicarbosylate CH10N2O4 DIAD Disopropyl azodicarbosylate CH10N2O4 A-Dimetrylaminopyridine C7H10N2 DNAP A-Dimetrylaminopyridine C7H10N2 DNPH 2,4-Dimetrylaminopyridine CH6N4O4 DNPH 2,4-Dimetrylaminopyridine CH6N4O4 DNPH 2,4-Dimetrylaminopyridine CH6N4O4 DNPH 1-Bisidimetrylaminopyridine CH6NAO4 DNAO4	DBPO, BPO	Benzoyl peroxide	C14H10O4	
DEAD Dietryl szedicirbosylate CH14N2 DEAD Dietryl szedicirbosylate CH10N2O4 Disopropyl azodicarbosylate CH10N2O4 Disopropyl azodicarbosylate CH10N2O4 DIAD Disopropyl azodicarbosylate CH10N2O4 A-Dimetrylaminopyridine C7H10N2 DNAP A-Dimetrylaminopyridine C7H10N2 DNPH 2,4-Dimetrylaminopyridine CH6N4O4 DNPH 2,4-Dimetrylaminopyridine CH6N4O4 DNPH 2,4-Dimetrylaminopyridine CH6N4O4 DNPH 1-Bisidimetrylaminopyridine CH6NAO4 DNAO4				NI .
DEAD DEAD Disopropyl azodicarboxylate C6H10N2D4 DIAD Disopropyl azodicarboxylate C6H10N2D4 DIAD Disopropyl azodicarboxylate C6H10N2D4 DIAD DIsopropyl azodicarboxylate C6H10N2D4 DNAP 4-Dimethylaminopyridine C7H10N2 DNPH 2-4-Dimitrophenylhydrazine C6H0N4D4 EDC 1-Efryl 3-13- dimethylaminopropylicarbodimide EDC 1-Efryl 3-13- dimethylaminopropylicarbodimide NATIU 1-[Bis(dimethylamino)methylene)-1H- 12-3 frazzolol(4-5-bis)yridinum 3-oxid tenerihare gribinophide Hextu Hextu Hextu Hextylithium C6H13U HMD5 Bis(rrimethylsilyl)amine C6H19NSi2 Hydroxybenzotriazole C6H5N3D C6H5N3D C6H1 DCP Lodonium di-sym-collidine perchlorate C16H2ZNZO4ICI C6H14UN C6H15CIG3	DCC	N,N'-Dicyclohexylcarbodiimide	C13H22N2	N C N
DEAD Disopropyl acodicarboxylate C8H14N2O4 HyC C CHy	DIC	N,N'-Diisopropylcarbodiimide	C7H14N2	$\square_3 \square \square \square$
DIAD Disopropyl azodicarboxylate C8H14N2O4 HyC O N N O CH3 CH3 DMAP 4-Dimethylaminopyridine C7H10N2 Fig. C O N N O CH3 CH3 CH4 CH5 CH5 CH5 CH5 CH5 CH5 CH5	DEAD	Diethyl azodicarboxylate	C6H10N2O4	O N = N
DIMAP 4-Dimethylaminopyridine C7H10N2 N A-Dimethylaminopyridine C6H6N404 C6H6N404 C6H6N404 C6H17N3 C6H17N3 C6H17N3 C7H10N2 EDC L1-Ethyl-3-G3- dimethylaminopyropylycarbodiimide c6H17N3 C6H				O CH ₃
DNPH 2,4-Dinitrophenylhydrazine C6H6N404 C8H17N3 C8H17N3 L1-Eistdinethylaminopropyl)carbodiimide HATU 1-Eistdinethylaminopropyl)carbodiimide C10H15F6N60P Hexti Hexyllithium C6H13Li HMDS Bis(trimethylsilyi)amine C6H19N512 Hydroxybenzotriazole C6H5N30 CH5N30 CH5N30 CH5N30 CH5N30 CH5N30 CH6N30 CH5N30 CH5N30 CH5N30 CH6N30 CH7N3 CH5N30 CH5N	DIAD	Diisopropyl azodicarboxylate	C8H14N2O4	
DNPH 2,4-Dinitrophenylhydrazine C6H6N404 C8H17N3 C8H17N3 L1-Eistdinethylaminopropyl)carbodiimide HATU 1-Eistdinethylaminopropyl)carbodiimide C10H15F6N60P Hexti Hexyllithium C6H13Li HMDS Bis(trimethylsilyi)amine C6H19N512 Hydroxybenzotriazole C6H5N30 CH5N30 CH5N30 CH5N30 CH5N30 CH5N30 CH6N30 CH5N30 CH5N30 CH5N30 CH6N30 CH7N3 CH5N30 CH5N				\`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
DNPH 2,4-Dinitrophenylhydrazine C6H6N4O4 EDC 1-Ethyl-3-(3-dimethylaminopropyl)carbodlimide C8H17N3 HATU 1-[Bis(dimethylamino)methylene]-1H-1,2,3-triazolo[4,5-b]pyridinium 3-oxid hexallurorphosphate hexallurorphosphate C6H13Li HMDS Bis(trimethylsilyl)amine C6H13Li HMDS Bis(trimethylsilyl)amine C6H19NSi2 H,6 CH,	DMAP	4-Dimethylaminopyridine	C7H10N2	N.
DNPH 2,4-Dinitrophenylhydrazine C6H6N4O4 1-Ethyl-3-(3- dimethylaminopropyl)carbodiimide 1-[Bis(dimethylamino)methylene]-IH- 1,2,3-triazolo(4,5-b]pyridinium 3-oxid hexafluorophosphate HATU 1-[Bis(dimethylamino)methylene]-IH- 1,2,3-triazolo(4,5-b)pyridinium 3-oxid hexafluorophosphate C10H15F6N6OP C10H15F6N6OP HACU				
dimethylaminopropyl)carbodilmide HATU 1-[Bis(dimethylamino)methylene]-1H- 1,2,3-triazolo[4,5-b]pyridinium 3-oxid hexafluorophosphate HEXLI	DNPH	2,4-Dinitrophenylhydrazine	C6H6N4O4	
HATU 1[Bis(dimethylaminomethylene]-1H- 1.2.3-triazole/4,5-b]pyridinium 3-oxid hexafluorophosphate HexLi Hexyllithium C6H13Li HMDS Bis(trimethylsilyl)amine C6H19NSi2 H3C CH3 CH3 H3C CH3 CH3 H3C CH3 CH3 H3C CH3	EDC	1-Ethyl-3-(3- dimethylaminopropyl)carbodiimide	C8H17N3	N=C=N
HexLi Hexyllithium C6H13Li HMDS Bis(trimethylsilyl)amine C6H19NSi2 H ₃ C S ₁ CH ₃ CH ₃ H ₃ C CH ₃ CH ₃ H ₃ C CH ₃ CH ₃ H ₃ C CH ₃	HATU	1,2,3-triazolo[4,5-b]pyridinium 3-oxid	C10H15F6N6OP	
HMDS Bis(trimethylsilyl)amine C6H19NSi2 H ₃ C H ₃ C H ₃ C CH ₃ CH	HexLi		C6H13Li	N— / Li
HOBT Hydroxybenzotriazole C6H5N3O CH3 OH OH OH IDCP Iodonium di-sym-collidine perchlorate C16H22N2O4ICI Lithium aluminium hydride LiAlH4 Lithium aluminium hydride LiAlH4 Lithium diisopropylamide C6H14LiN MCPBA Meta-Chloroperoxybenzoic acid C7H5ClO3				.51 51.
IDCP Iodonium di-sym-collidine perchlorate C16H22N2O4ICI Lithium aluminium hydride LiAlH4 Lithium diisopropylamide C6H14LIN CH5 H5C CH5				CH ₃ CH ₃
IDCP Iodonium di-sym-collidine perchlorate C16H22N2O4ICI H ₃ C CH ₃ H ₃ C CH ₃ Lithium aluminium hydride LiAlH4 Lithium diisopropylamide C6H14LiN OH OH OOO OOO OH OOO OOO OOO OH OOO OO	HOBt	Hydroxybenzotriazole	C6H5N3O	N, N
LAH Lithium aluminium hydride LiAlH4 Lithium diisopropylamide C6H14LiN MCPBA Lithium diisopropylamide C7H5CIO3				
Lithium aluminium hydride LiAlH4 Lithium aluminium hydride LiAlH4 Lithium diisopropylamide C6H14LiN OH OH OH OH OH OH OH OH OH O	IDCP	Iodonium di-sym-collidine perchlorate	C16H22N2O4ICI	CH ₂ U.S. U.S.
LDA Lithium diisopropylamide C6H14LiN OH OH OOH OOH OOH OOH OOH OOH	LAH	Lithium aluminium hydride	LiAlH4	Li ⁺ Ai
mCPBA meta-Chloroperoxybenzoic acid C7H5ClO3				L
mCPBA meta-Chloroperoxybenzoic acid C7H5ClO3	LDA	Lithium diisopropylamide	C6H14LiN	N O L
	mCPRA	meta-Chloroperovybenzoic acid	C7H5ClO3	
MeLi Methyllithium CH3Li H3C —Li		THE CHIOLOPETONYDELIZUIC ACIU	C/113C103	CI
	MeLi	Methyllithium	CH3Li	H ₃ C —Li

	T		
MoOPD	Oxodiperoxymolybdenum (Pyridin) (Dimethylpropylenharnstoff)	C11H17O6N3Mo	O_O O N CH ₃
MoOPH	Oxodiperoxymolybdenum (Pyridin) (Hexamethylphosphorsäuretriamid)	C11H23MoN3O6P	H ₃ C CH ₃ N CH ₃ N CH ₃ N CH ₃ O O N CH ₃ O O N CH ₃
NBS	N-Bromosuccinimide	C4H4BrNO2	O N—Br O
NCS	N-Chlorosuccinimide	C4H4CINO2	N—CI
NHS	N-Hydroxysuccinimide	C4H5NO3	N-OH O
PCC	Pyridinium chlorochromate	C5H5NHClCrO3	O II O — Cr – Cl II O
PIFA	(Bis(trifluoroacetoxy)iodo)benzene	C10H5F6IO4	F_3C O O CF_3 O O
РуВОР	benzotriazol-1-yl- oxytripyrrolidinophosphonium hexafluorophosphate	C18H28F6N6OP2	N PF6
sec-BuLi	sec-Butyllithium	C4H9Li	H ₃ C CH ₃
TADDOL	α,α,α',α'-Tetraaryl-1,3-dioxolan-4,5- dimethanol	C31H30O4	Ph Ph OH OH OH Ph Ph
TBTU	O-(Benzotriazol-1-yl)-N,N,N',N'- tetramethyluronium tetrafluoroborat	C11H16N5OBF4	N N N O BF ₄ ⁻ CH ₃ CH ₃
TEMPO	2,2,6,6-Tetramethylpiperidin-1-yl)oxy, or (2,2,6,6-tetramethylpiperidin-1- yl)oxidanyl	C9H18NO	H_3C O CH_3 O O
tert-BuLi, t-BuLi	tert-Butyllithium	LiC4H9	CH ₃ H ₃ C C'''''CH ₃
TESOTf	Triethylsilyl-O-Trifluoracetat	C8H15O2F3Si	H_3C CH_3 CH_3 CH_3 CH_3 CH_3
TMEDA	Tetramethylethylenediamine	C6H16N2	CH_3 H_3C N CH_3 CH_3 CH_3
TosMIC	Toluenesulfonylmethyl isocyanide	C9H9NO2S	O O ⊕ C ⊖ N C ⊖
Compounds - Amino acids			
Abbreviation	Chemical Name	Molecular Formula	Structure
Ala	Alanine	C3H7NO2	H ₃ C OH NH ₂
Arg	Arginine	C6H14N4O2	H_2N N N N N N N N N N
Asn	Asparagine	C4H8N2O3	O NH ₂ NH ₂
Asp	Aspartic acid	C4H7NO4	O OH OH NH ₂
Cys	Cysteine	C3H7NO2S	HS OH NH ₂

Gln	Glutamine	C5H10N2O3	H_2N OH NH_2
Glu	Glutamic acid	C5H9NO4	HO OH NH ₂
Gly	Glycine	C2H5NO2	OH NH ₂
His	Histidine	C6H9N3O2	N HN NH ₂
Ile	Isoleucine	C6H13NO2	H_3C OH NH_2
Leu	Leucine	C6H13NO2	H_3C OH CH_3 NH_2
Lys	Lysine	C6H14N2O2	H_2N OH NH_2
Met	Methionine	C5H11NO2S	H_3C S OH NH_2
Phe	Phenylalanine	C9H11NO2	OH NH ₂
Pro	Proline	C5H9NO2	H OH NH
Pyl	Pyrrolysine	C12H21N3O3	H_3 C H_2 H_2 H_3 H_2
Sec	Selenocysteine	C3H7NO2Se	HSe OH NH ₂
Ser	Serine	C3H7NO3	HO OH NH ₂
Thr	Threonine	C4H9NO3	H_3C OH OH OH OH OH
Trp	Tryptophan	C11H12N2O2	O HN NH ₂
Tyr	Tyrosine	C9H11NO3	CH ₃ O
Val	Valine	C5H11NO2	H_3C OH NH_2
Compounds - Nucleoside Abbreviation	Chemical Name	Molecular Formula	Structure
A	Adenosine	C10H13N5O4	HO NH2 OH OH
dA	Deoxyadenosine	C10H13N5O3	HO NH2
G	Guanosine	C10H13N5O5	HO NH NH ₂
dG	Deoxyguanosine	C10H13N5O4	HO NH NH ₂
C	Cytidine	C9H13N3O5	HO NH2 NHO NO OH OH

			NH ₂
dC	Deoxycytidine	C9H13N3O4	HONO
			OH
			H ₃ C、
Т	5-Methyluridine	C10H14N2O6	HO NO
			ОН ОН
			H ₃ C NH
dT	Thymidine	C10H14N2O5	HONO
			ОН
			NH
U	Uridine	C9H12N2O6	HONO
			он он
			NH
dU	Deoxyuridine	C9H12N2O5	HONO
Common de Diochemical	la 		ОН
Compounds - Biochemical Abbreviation	Chemical Name	Molecular Formula	Structure
BICINE	2-(Bis(2-hydroxyethyl)amino)acetic acid	C6H13O4N	OH O
			HO N OH
BisTris	Bis-tris methane	C8H19NO5	HO
			HOOH
CAPS	N-cyclohexyl-3-aminopropanesulfonic acid	C9H19NO3S	H O O N S OH
	N-Cyclohexyl-2-aminoethanesulfonic		H OOH
CHES	acid	C8H17NO3S	O OH
HEPES	4-(2-hydroxyethyl)-1- piperazineethanesulfonic acid	C8H18N2O4S	HO-S
MES	2-(N-morpholino)ethanesulfonic acid	C6H13NO4S	O N S OH
			S O O
MOPS	3-(N-morpholino)propanesulfonic acid	C7H15NO4S	OH OH
TES_fa	2-[[1,3-dihydroxy-2- (hydroxymethyl)propan-2- yl]amino]ethanesulfonic acid	C6H15NO6S	HO NO OH
			HO ''
TRICINE	N-(2-Hydroxy-1,1-bis(hydroxymethyl)ethyl)glycine	C6H13NO5	HO HO
			HO
TRIS	2-Amino-2-hydroxymethyl-propane- 1,3-diol	C4H11NO3	HO NH2
			HO
Functional Groups Abbreviation	Chemical Name	Molecular Formula	Structure
Bu	n-Butyl	C4H9	R CH ₃
Су	Cyclohexyl	C6H11	R
Et	Ethyl	C2H5	R_CH ₃
Me	Methyl	CH3	R CH ₃
Mes	Mesyl (methylsulfonyl)	CH3SO2	O CH ₃
			, O
OSu	O-succinimide	C4H4O3N	N-OR
			0
Ph	Phenyl	C6H5	R

Pr	Propyl	C3H7	R CH ₃
Ру	Pyridyl	C5H4N	R
Tol	Toloyl	C7H7	CH ₃
Tos	Tosyl (P-Toluolsulfonyl)	C7H7SO2	CH ₃
Ac	Acetyl	C2H3O	R CH ₃
Alloc	Allyloxycarbonyl	C4H5O2	$R \longrightarrow O \longrightarrow CH_2$
Bn, Bzl	Benzyl	C7H7	R
Вос	tert-Butyloxycarbonyl	C5H9O2	R O CH ₃ O CH ₃ O CH ₃
Bz	Benzoyl	C7H5O	R O
DMT	Dimethoxytrityl	C21H19O2	H ₃ C -O R
Fmoc	Fluorenyloxycarbonyl	C15H11O2	RO
MEM	2-Methoxyethoxymethyl	C4H9O2	O CH ₃
MOM	Methoxymethyl	C2H5O	R_O_CH ₃
Piv	Pivaloyl	C5H9O	CH ₃ CH ₃ CH ₃
PMB	p-Methoxybenzyl	C8H9O	R CH ₃
SEM	β-(Trimethylsilyl)ethoxymethyl	C6H15OSi	CH ₃ I SiCH ₃ CH ₃
TBDMS, TBS	tert-Butyldimethylsilyl	C6H15Si	CH3 CH3 —Si — ""CH3 CH3 CH3
TES	Triethylsilyl	C6H15Si	H ₃ C CH ₃ R CH ₃
THP	Tetrahydropyranyl	C5H9O	RO
TMS	Trimethylsilyl	C3H9Si	CH ₃ I SiCH ₃ R → CH ₃
Tr, Trt	Trityl (Triphenylmethyl)	C19H15	R