ORGANIC CHEMISTRY ACRONYMS

Not included: peptide protecting groups, biochemical abbreviations.

Ac Acetyl (CH ₃ C=O) acac Acetylacetonate (ligand) AIBN Azobis(isobutyronitrile)radical initiator 9-BBN-H 9-Borabicyclo[3.3.1]nonane bda Benzylidene Acetone BHT Butylated hydroxy toluene (2,6-di-t-butyl-4-methylphenol) BINALH Lithium 2,2'-dihydroxy-1,1'-binaphthylethoxyaluminum hydride BINAP 2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl bipy (bpy) 2,2'-bipyridyl BMS Borane Dimethyl Sulfide Boc t-Butyloxycarbonyl (COtC4H9) BOM Benzyloxymethyl (PhCH2OCH2-alcohol protection) Bs Brosylate (p-BrC6H4SO2) BSA O, N-Bistrimethylsilyl Acetamide Bz Benzoyl (caution: sometimes used for benzyl) Bn Benzyl BTAF Benzyltrimethylammonium Fluoride CAN Ceric Ammonium Nitrate
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CAN Ceric Ammonium Nitrate
Cbz Carbobenzyloxy (BnOC=O) Ö DMAP
cod Cyclooctadiene DDQ A _{CO} OAc
COT Cyclooctatetraene
Cp Cyclopentadienyl
Cn* Pentamethylcyclopentadienyl
12-Crown-4 1,4,7,10-Tetraoxacycododecane
CSA Camphorsulfonic Acid
CSI Chlorosulfonyl Isocyanate
CTAB Cetyltrimethylammonium bromide
DA Diels-Alder Reaction N=C=N
DABCO 1,4-Diazabicyclo[2.2.2]octane
DAST (Diethylamino)sulfur trifluoride Et ₂ NSF ₃
dba Dibenzylideneacetone
DBN 1,5-Diazabicyclo[4.3.0]non-5-ene
DBU 1,8-Diazabicyclo[5.4.0]undec-7-ene
DEN DBU DCA 1,9-Dicyanoanthracene
DCC Dicyclohexyl Carbodiimide
DDO 2.3-Dichloro-5.6-dicyano-1.4-benzoquinone
DDT 1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethane
de Diastereomeric excess DIOP
DEAD(CAT) Diethyl Azodicarboxylate
DET Diethyl Tartrate
DHP Dihydropyran (alcohol protection)
DIBAL (DIBAH) Diisobutylaluminum Hydride

Dimsyl Methylsulfinylmethide (MeSt(O)CH ₂ * DIOP DIFT Diisopropyl turtate (diphos (dppe) 1,2-Bis(diphenylphosphino)ethane DHP Dihydropyran (O-protection) DMAC N.N-Dimethylacetamide (solvent) DMAD Dimethylacetamide (solvent) DMAD Dimethylacetamide (solvent) DMAD Dimethylaminopyridine (base catalyst) DMDO Dimethyldioxirane DMF Dimethylaminopyridine (base catalyst) DMF Dimethylformamide (solvent) DMF Dimethylformamide (solvent) DMF Dimethylformamide (solvent) DMPU N.Y-Dimethyl-N.Y-propylen urea DMSO Dimethyl Sulfoside (solvent) DMSP Al-Hisidiphenylphosphino)butane dppe (diphos) 1,2-Bis(diphenylphosphino)butane dppe (diphos) 1,2-Bis(diphenylphosphino)butane dppf Bis(fiphenylphosphino)ferrocene dppf Bis(fiphenylphosphino)ferrocene dppf Bis(fiphenylphosphino)ferrocene E Entagesen (opposite, trans) E Methoxycarbonyl CO ₂ CH, DCH Eithyl Dimethylaminopropyl Carbodiimide EDCI Ethyl Dimethyl Carbodyl Carbodiimide EDCI Ethyl Dimethylaminopropyl Carbodiimide EDCI Ethyl Dimethylaminopropyl Carbodiimide EDCI Ethyl Carbodyl Carbodiimide EDCI Ethyl Carbodyl Carbodyl Carbodyl Carbodyl Ca	Dialyma	Diethylana alyaal dimathyl othan	
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LDA	Lithium Diisopropylamide	
LDMAN	Lithium <i>N,N</i> -Dimethylaminonaphthalenide	
LFER	Linear Free Energy Relationship	
LHMDS	Lithium Hexamethyldisilazide (LiN(SiMe ₃) ₂)	
LICA	Lithium N-isopropylcyclohexylamide	
LICKOR	Lithium-potassium alkoxide reagents	
LIDBB	Lithium 4,4'-di-t-butylbiphenylide	
LiTMP	Lithium Tetramethylpiperidide	
LTA	Lead Tetraacetate (Pb(OAc) ₄)	LI ⁺
MA	Maleic Anhydride	+\langle \sqrt{-\frac{-}{\frac{-}{2}}}+
Mander Reag		LiDBB
MCPBA	meta-Chloroperoxybenzoic Acid	LIDBB
MEM	β-Methoxyethoxymethyl (CH ₃ OCH ₂ CH ₂ O-CH ₂ -)	
Mes	Mesityl (2,4,6-trimethylphenyl)	Li-N N
MOM	Methoxymethyl (CH ₃ OCH ₂ -, alcohol protection).	/ 'Li
МоОРН	MoO ₅ ·Py·HMPA (oxidizing agent)	LDA LiTMP
Ms	Methanesulfonyl (Mesyl, CH ₃ SO ₂)	Li ⁺ O
MTPA	α-Methoxy-α-trifluoromethylphenylacetic acid (Mosher)	MeO CN
MTM	Methylthiomethyl CH ₃ -S-CH ₂ - (alcohol protection)	Mander reagent
MVK	Methyl Vinyl Ketone (3-Butene-2-one)	LDMAN
NBA	N-Bromoacetamide	
NBS, NCS	N-Bromo, N-Chlorosuccinimide	
Nf		
	Nonaflate (C ₄ F ₉ SO ₂) N-Iodosuccinimide	CI O II O
NIS		OOH 0 10 10 10 10 10 10 10 10 10 10 10 10 1
NMO	N-Methylmorpholine-N-oxide	O Py OP(NMe ₂) ₃
NMP	N-Methylpyrrolidone; solvent	МСРВА МоОРН
Ns	p-Nitrobenzenesulfonyl	
PBB, PCB	Polybrominated, Polychlorinated Biphenyls	
PCC	Pyridinium chlorochromate	
PDC	Pyridinium dichromate	
PG	Prostaglandins	N N N N CH3
phen	1,10-Phenanthroline	NIME
PhthN	Phthalimido	NBS NMP
PMDTA	N,N,N',N",N"-pentamethyldiethylenetriamine	
PMB	p-Methoxybenzyl	PMDTA I CI-CrO ₃
PMP	p-Methoxyphenyl	PCC
PNB	para-Nitrobenzoate	
PPA	Polyphosphoric Acid	
PPTS	Pyridinium <i>p</i> -Toluenesulfonate	Ph₂P N√
PTAD	N-Phenyl-1,2,4-triazolinedione	PHOX [®] Bu
PTC	Phase Transfer Catalyst	Me ₃ Si O Cl
Piv	Pivaloyl	SEM-CI
Py	Pyridine; Solvent, base, catalyst	
RT	Room Temperature	
SEM	2-Trimethylsilylethoxymethoxy (alcohol protection)	
SES	Trimethylsilylethylsulfonyl (amine prot. SO ₂ CH ₂ CH ₂ SiMe ₃)	
Sia ₂ BH	Disiamylborane (Me ₂ CHMeCH) ₂ BH	

TI A CIE		
TASF	Tris(dimethylamino)sulfonium difluorotrimethylsilicate	
TBAF	Tetra- <i>n</i> -butylammonium fluoride	
TBDMS	t-Butyldimethylsilyl (alcohol protection)	
TBDPS	t-Butyldiphenylsilyl (alcohol protection)	F Man No. NIMA
TBHP	t-Butylhydroperoxide	Me ₂ N + NMe ₂
TBS	t-Butyldimethylsilyl (also TBDMS)	F TASF NMe ₂
TCE	2,2,2-Trichloroethyl (alcohol, acid protection)	NC_CN
TCNE	Tetracyanoethylene	\downarrow
TCNQ	7,7,8,8-Tetracyanoquinodimethane	
TEA	Triethylamine	TEMPO
Tebbe		-N N- NC EN TCNQ
TEMPO	Tetramethylpiperidinyloxy	TMEDA
TES	Triethylsilyl	O CU CH
Tf	Triflate (CF ₃ SO ₂)	"CH ₂ "CH ₃
TFA	Trifluoroacetic(yl)	CH₃
Thexyl	Me ₂ CHMe ₂ C-	Tebbe
THF	Tetrahydrofuran; solvent	N N
THP	Tetrahydropyran (alcohol protecting group)	
TIPS	Triisopropylsilyl (alcohol protection)	Ţ
TMEDA	N,N,N',N'-Tetramethylethylenediamine	TMTAN O, O
TMTAN	1,4,7-trimethyl-1,4,7-tetraazanonane	S NEC
TMS	Tetramethylsilane, also Trimethylsilyl	
TMSI	Trimethylsilyl Iodide	TOSMIC
Tol	p-Tolyl	
TOSMIC	p-Toluenesulfonylmethylisocyanide	
TPAP	Tetra-n-propylammonium Perruthenate	
TPP	meso-Tetraphenylporphyrin	
TRIS	Tris(hydroxymethyl)aminomethane (buffer)	
Trityl	Triphenylmethyl	
Troc	Trichloroethyloxycarbonyl (CCl ₃ CH ₂ OC(O)-)	
Ts	Tosyl (p-CH ₃ C ₆ H ₄ SO ₂)	
TTN	Thallium Trinitrate	
WK	Wolff-Kishner Reduction	
Z	Zusammen (together, cis)	