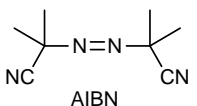
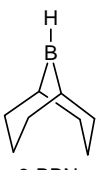
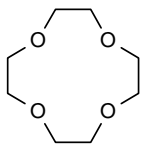
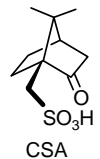
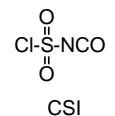
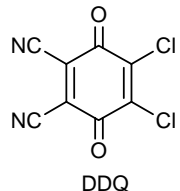
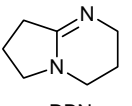
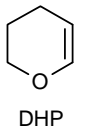
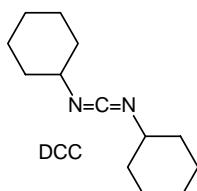
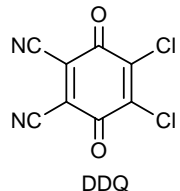
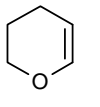
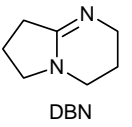
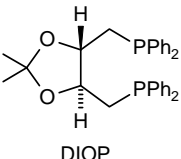
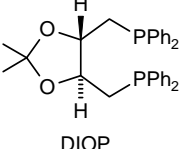
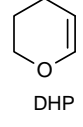
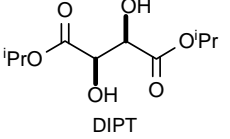
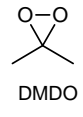
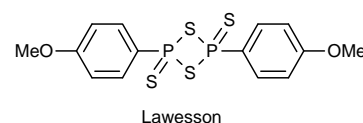
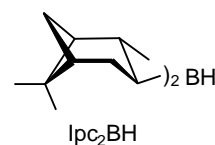
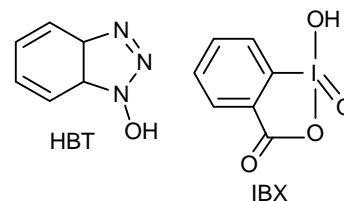
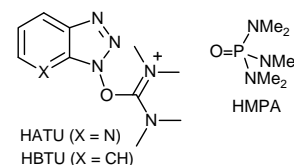
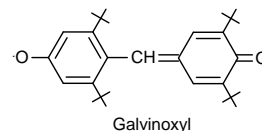
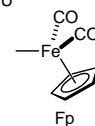
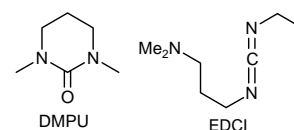


ORGANIC CHEMISTRY ACRONYMS

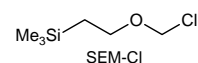
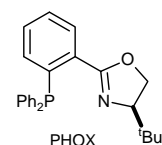
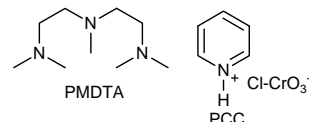
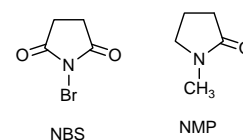
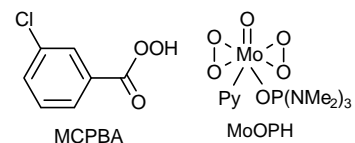
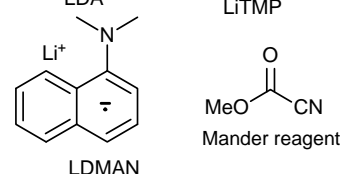
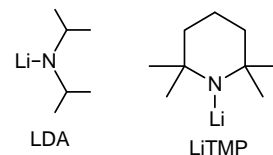
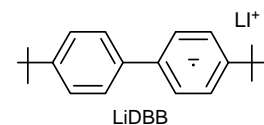
Not included: peptide protecting groups, biochemical abbreviations.

Ac	Acetyl ($\text{CH}_3\text{C}=\text{O}$)	
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- <i>t</i> -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	<i>t</i> -Butyloxycarbonyl ($\text{CO}t\text{C}_4\text{H}_9$)	
BOM	Benzyloxymethyl ($\text{PhCH}_2\text{OCH}_2$ -alcohol protection)	
Bs	Brosylate ($p\text{-BrC}_6\text{H}_4\text{SO}_2$)	
BSA	O, N-Bis(trimethylsilyl) Acetamide	
Bz	Benzoyl (caution: sometimes used for benzyl)	
Bn	Benzyl	
BTAF	Benzyltrimethylammonium Fluoride	
CAN	Ceric Ammonium Nitrate	
Cbz	Carbobenzyloxy ($\text{BnOC}=\text{O}$)	
cod	Cyclooctadiene	
COT	Cyclooctatetraene	
Cp	Cyclopentadienyl	
Cp*	Pentamethylcyclopentadienyl	
12-Crown-4	1,4,7,10-Tetraoxacycododecane	
CSA	Camphorsulfonic Acid	
CSI	Chlorosulfonyl Isocyanate	
CTAB	Cetyltrimethylammonium bromide	
DA	Diels-Alder Reaction	
DABCO	1,4-Diazabicyclo[2.2.2]octane	
DAST	(Diethylamino)sulfur trifluoride Et_2NSF_3	
dba	Dibenzylideneacetone	
DBN	1,5-Diazabicyclo[4.3.0]non-5-ene	
DBU	1,8-Diazabicyclo[5.4.0]undec-7-ene	
DCA	1,9-Dicyanoanthracene	
DCC	Dicyclohexyl Carbodiimide	
DDQ	2,3-Dichloro-5,6-dicyano-1,4-benzoquinone	
DDT	1,1-Bis(<i>p</i> -chlorophenyl)-2,2,2-trichloroethane	
de	Diastereomeric excess	
DEAD(CAT)	Diethyl Azodicarboxylate	
DET	Diethyl Tartrate	
DHP	Dihydropyran (alcohol protection)	
DIBAL	(DIBAH) Diisobutylaluminum Hydride	
		

Diglyme	Diethylene glycol dimethyl ether	
Dimsyl	Methylsulfinylmethide (MeS(O)CH_2^-)	
DIOP		
DIPT	Diisopropyl tartrate	
diphos	(dppe) 1,2-Bis(diphenylphosphino)ethane	
DHP	Dihydropyran (O-protection)	
DMAc	N,N-Dimethylacetamide (solvent)	
DMAD	Dimethyl Acetylenedicarboxylate	
DMAP	4-Dimethylaminopyridine (base catalyst)	
DMDO	Dimethyldioxirane	
DME	1,2-Dimethoxyethane (glyme, solvent)	
DMF	Dimethylformamide (solvent)	
DMP	Dess-Martin Periodinane	
DMPU	N,N'-Dimethyl-N,N'-propylene urea	
DMSO	Dimethyl Sulfoxide (solvent)	
DMSO2	Dimethyl Sulfone	
DMTSP	Dimethyl(methylthio)sulfonium tetrafluoroborate	
DNP	Dinitrophenylhydrazine	
DNPBA	2,4-Dinitroperbenzoic acid	
dppb	1,4-Bis(diphenylphosphino)butane	
dppe	(diphos) 1,2-Bis(diphenylphosphino)ethane	
dppf	Bis(diphenylphosphino)ferrocene	
dppp	1,3-Bis(diphenylphosphino)propane	
E	Entgegen (opposite, trans)	
E	Methoxycarbonyl CO_2CH_3	
EDCI	Ethyl Dimethylaminopropyl Carbodiimide	
EDTA	Ethylenediaminetetraacetic acid	
ee	Enantiomeric Excess	
EE	1-Ethoxyethoxy (alcohol protection)	
en	Ethylene Diamine	
FC	Friedel-Crafts Reaction	
Fmoc	9-Fluorenylmethoxycarbonyl	
Fp	Cyclopentadienyldicarbonylferrate	
Glyme	1,2-Dimethoxyethane	
Galvinoxyl	Radical trap	
HATU		
HBT	Hydroxybenzotriazole	
HMDS	Hexamethyldisilazide ($(\text{Me}_3\text{Si})_2\text{NH}$)	
HMPA, HMPT	Hexamethylphosphorotriamide (solvent, cosolvent)	
HOBT	Hydroxybenzotriazole	
HSAB	Hard-Acid-Soft-Base	
IBX	o-Iodoxybenzoic acid	
Im	Imidazolyl	
Ipc ₂ BH	Bisisopinocampheylborane	
KDA	Potassium Diisopropylamide	
LAH	Lithium Aluminum Hydride (LiAlH_4)	
Lawesson		



LDA	Lithium Diisopropylamide
LDMAN	Lithium <i>N,N</i> -Dimethylaminonaphthalenide
LFER	Linear Free Energy Relationship
LHMDS	Lithium Hexamethyldisilazide (LiN(SiMe ₃) ₂)
LICA	Lithium <i>N</i> -isopropylcyclohexylamide
LICKOR	Lithium-potassium alkoxide reagents
LIDBB	Lithium 4,4'-di- <i>t</i> -butylbiphenylide
LiTMP	Lithium Tetramethylpiperidide
LTA	Lead Tetraacetate (Pb(OAc) ₄)
MA	Maleic Anhydride
Mander Reag	
MCPBA	meta-Chloroperoxybenzoic Acid
MEM	β-Methoxyethoxymethyl (CH ₃ OCH ₂ CH ₂ O-CH ₂ -)
Mes	Mesityl (2,4,6-trimethylphenyl)
MOM	Methoxymethyl (CH ₃ OCH ₂ -, alcohol protection).
MoOPH	MoO ₃ ·Py·HMPA (oxidizing agent)
Ms	Methanesulfonyl (Mesyl, CH ₃ SO ₂)
MTPA	α-Methoxy-α-trifluoromethylphenylacetic acid (Mosher)
MTM	Methylthiomethyl CH ₃ -S-CH ₂ - (alcohol protection)
MVK	Methyl Vinyl Ketone (3-Butene-2-one)
NBA	<i>N</i> -Bromoacetamide
NBS, NCS	<i>N</i> -Bromo, <i>N</i> -Chlorosuccinimide
Nf	Nonaflate (C ₄ F ₉ SO ₂)
NIS	<i>N</i> -Iodosuccinimide
NMO	<i>N</i> -Methylmorpholine- <i>N</i> -oxide
NMP	<i>N</i> -Methylpyrrolidone; solvent
Ns	<i>p</i> -Nitrobenzenesulfonyl
PBB, PCB	Polybrominated, Polychlorinated Biphenyls
PCC	Pyridinium chlorochromate
PDC	Pyridinium dichromate
PG	Prostaglandins
phen	1,10-Phenanthroline
PhthN	Phthalimido
PMDTA	<i>N,N,N',N'',N''</i> -pentamethyldiethylenetriamine
PMB	<i>p</i> -Methoxybenzyl
PMP	<i>p</i> -Methoxyphenyl
PNB	para-Nitrobenzoate
PPA	Polyphosphoric Acid
PPTS	Pyridinium <i>p</i> -Toluenesulfonate
PTAD	<i>N</i> -Phenyl-1,2,4-triazolinedione
PTC	Phase Transfer Catalyst
Piv	Pivaloyl
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,BH	Disiamylborane (Me ₂ CHMeCH ₂),BH



TASF	Tris(dimethylamino)sulfonium difluorotrimethylsilicate	<p>The right column of the table contains six chemical structures. From top to bottom: 1. TASF: A central silicon atom bonded to three methyl groups and two fluorine atoms, with a dimethylamino group (NMe2) attached to a sulfonium group (S+Me2) via a sulfur-sulfur bond. 2. TEMPO: A piperidine ring with a nitroxyl group (N-O) at the 2-position. 3. TMEDA: A six-membered ring with two nitrogen atoms and four methyl groups. 4. Tebbe: A zirconium atom bonded to two indenyl ligands, a methylene group (CH2), and a chlorine atom, with an aluminum atom bonded to two methyl groups and coordinated to the methylene group. 5. TMTAN: A 1,4,7-trimethyl-1,4,7-tetraazanonane ring system. 6. TOSMIC: A benzene ring attached to a sulfonamide group (-SO2NH2) and a methyl isocyanide group (-CH2N≡C).</p>
TBAF	Tetra- <i>n</i> -butylammonium fluoride	
TBDMS	<i>t</i> -Butyldimethylsilyl (alcohol protection)	
TBDPS	<i>t</i> -Butyldiphenylsilyl (alcohol protection)	
TBHP	<i>t</i> -Butylhydroperoxide	
TBS	<i>t</i> -Butyldimethylsilyl (also TBDMS)	
TCE	2,2,2-Trichloroethyl (alcohol, acid protection)	
TCNE	Tetracyanoethylene	
TCNQ	7,7,8,8-Tetracyanoquinodimethane	
TEA	Triethylamine	
Tebbe		
TEMPO	Tetramethylpiperidinyloxy	
TES	Triethylsilyl	
Tf	Triflate (CF ₃ SO ₂)	
TFA	Trifluoroacetic(yl)	
Thexyl	Me ₂ CHMe ₂ C-	
THF	Tetrahydrofuran; solvent	
THP	Tetrahydropyran (alcohol protecting group)	
TIPS	Triisopropylsilyl (alcohol protection)	
TMEDA	N,N,N',N'-Tetramethylethylenediamine	
TMTAN	1,4,7-trimethyl-1,4,7-tetraazanonane	
TMS	Tetramethylsilane, also Trimethylsilyl	
TMSI	Trimethylsilyl Iodide	
Tol	<i>p</i> -Tolyl	
TOSMIC	<i>p</i> -Toluenesulfonylmethylisocyanide	
TPAP	Tetra- <i>n</i> -propylammonium Perruthenate	
TPP	meso-Tetraphenylporphyrin	
TRIS	Tris(hydroxymethyl)aminomethane (buffer)	
Trityl	Triphenylmethyl	
Troc	Trichloroethoxycarbonyl (CCl ₃ CH ₂ OC(O)-)	
Ts	Tosyl (<i>p</i> -CH ₃ C ₆ H ₄ SO ₂)	
TTN	Thallium Trinitrate	
WK	Wolff-Kishner Reduction	
Z	Zusammen (together, cis)	