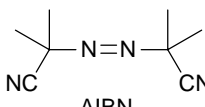
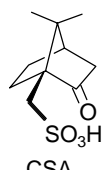
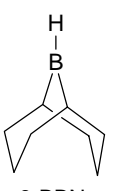
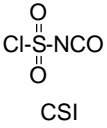
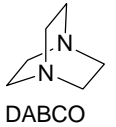
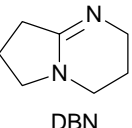
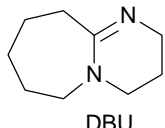
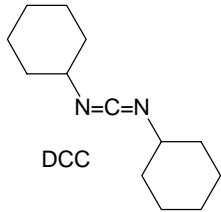
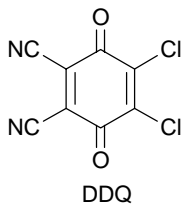
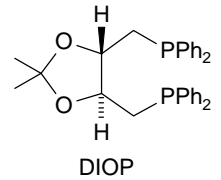
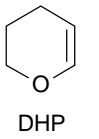
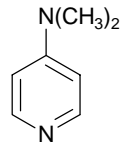
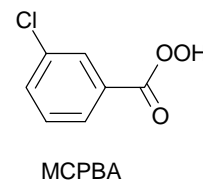
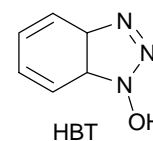
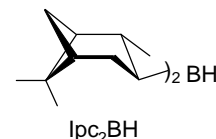
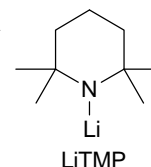
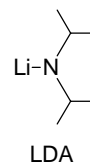
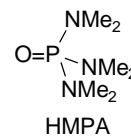
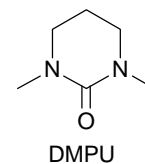


ORGANIC CHEMISTRY ACRONYMS

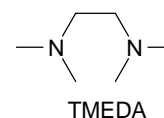
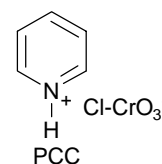
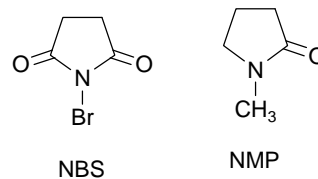
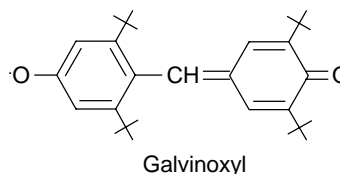
Not included: peptide protecting groups, inorganic and organometallic ligands, biochemical abbreviations.

Ac	Acetyl ($\text{CH}_3\text{C}=\text{O}$)		
acac	Acetylacetonate (ligand)		
AIBN	Azobis(isobutyronitrile)--radical initiator		AIBN
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	Benzoyloxymethyl ($\text{PhCH}_2\text{OCH}_2$ -alcohol protection)		
Bs	Brosylate ($\text{BrC}_6\text{H}_4\text{SO}_2$)		
BSA	O,N-Bistrimethylsilyl 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		
CSA	Camphorsulfonic Acid		CSA
CSI	Chlorosulfonyl Isocyanate		CSI
CTAB	Cetyltrimethylammonium bromide		
DA	Diels-Alder Reaction		
DABCO	1,4-Diazabicyclo[2.2.2]octane		DABCO
DAST	(Diethylamino)sulfur trifluoride Et_2NSF_3		
DBN	1,5-Diazabicyclo[4.3.0]non-5-ene		DBN
DBU	1,8-Diazabicyclo[5.4.0]undec-7-ene		DBU
DCA	1,9-Dicyanoanthracene		
DCC	Dicyclohexyl Carbodiimide		DCC
DDQ	2,3-Dichloro-5,6-dicyano-1,4-benzoquinone		DDQ
DDT	1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethane		
de	Diastereomeric excess		
DEADCAT	Diethyl Azodicarboxylate		
DET	Diethyl Tartrate		
DIBAL	(DIBAH) Diisobutylaluminum Hydride		
Diglyme	Diethylene glycol dimethyl ether		
Dimsyl	Methylsulfinylmethide ($\text{MeS}(\text{O})\text{CH}_2^-$)		
DIOP			DIOP
diphos	(dppe) 1,2-Bis(diphenylphosphino)ethane		
DHP	Dihydropyran (O-protection)		DHP
DMAc	N,N-Dimethylacetamide (solvent)		
DMAD	Dimethyl Acetylenedicarboxylate		
DMAP	4-Dimethylaminopyridine (base catalyst)		DMAP
DME	1,2-Dimethoxyethane (glyme, solvent)		
DMF	Dimethylformamide (solvent)		
DMPU	N,N'-dimethyl-N,N'-propylene urea		
DMSO	Dimethyl Sulfoxide (solvent)		

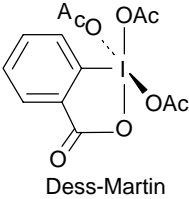
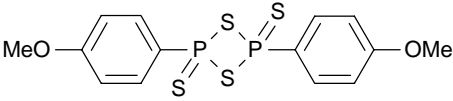
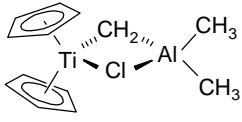
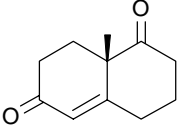
DMSO2	Dimethyl Sulfone
DMTSF	Dimethyl(methylthio)sulfonium tetrafluoroborate
DNP	Dinitrophenylhydrazine
DNPBA	2,4-Dinitroperbenzoic acid
dppb	1,4-Bis(diphenylphosphino)butane
dppe	(diphos) 1,2-Bis(diphenylphosphino)ethane
dppp	1,3-Bis(diphenylphosphino)propane
<i>E</i>	Entgegen (opposite, trans)
E	Methoxycarbonyl CO ₂ CH ₃
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
HBT	Hydroxybenzotriazole
HMDS	Hexamethyldisilazide
HMPA, HMPT	Hexamethylphosphorotriamide (solvent, cosolvent)
HSAB	Hard-Acid-Soft-Base
HVZ	Hell-Vollhardt-Zelinsky Reaction (α -bromination of carboxylic acids)
Ipc ₂ BH	Bisisopinocampheylborane
KDA	Potassium Diisopropylamide
LAH	Lithium Aluminum Hydride (LiAlH ₄)
LDA	Lithium Diisopropylamide
LFER	Linear Free Energy Relationship
LHMDS	Lithium Hexamethyldisilazide (LiN(SiMe ₃) ₂)
LICA	Lithium N-isopropylcyclohexylamide
LICKOR	Lithium-potassium alkoxide reagents
LiTMP	Lithium Tetramethylpiperidide
LTA	Lead Tetraacetate (Pb(OAc) ₄)
MA	Maleic Anhydride
MCPBA	meta-Chloroperoxybenzoic Acid
MEM	β -Methoxyethoxymethyl (CH ₃ OCH ₂ CH ₂ O-CH ₂ -, alcohol protection)
Mes	Mesityl (2,4,6-trimethylphenyl)
MOM	Methoxymethyl (CH ₃ OCH ₂ -, alcohol protection).
MoOPH	MoO ₅ -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	N-Bromoacetamide
NBS, NCS	N-Bromo, N-Chlorosuccinimide
Nf	Nonaflate (C ₄ F ₉ SO ₂)
NIS	N-Iodosuccinimide
NMO	N-Methylmorpholine-N-oxide
NMP	N-Methylpyrrolidone; solvent
Ns	p-Nitrobenzenesulfonyl
PBB, PCB	Polybrominated, Polychlorinated Biphenyls
PCC	Pyridinium chlorochromate
PDC	Pyridinium dichromate
PG	Prostaglandins
phen	1,10-Phenanthroline
PhthN	Phthalimido



PMDTA	N,N,N',N'',N'''-pentamethyldiethylenetriamine
PMB	p-Methoxybenzyl
PNB	para-Nitrobenzoate
PPA	Polyphosphoric Acid
PPTS	Pyridinium <i>p</i> -Toluenesulfonate
PTAD	N-Phenyl-1,2,4-triazolinedione
PTC	Phase Transfer Catalyst
Pv	Pivaloyl
Py	Pyridine; Solvent, base, catalyst
RT	Room Temperature
SEM	2-Trimethylsilylethoxymethoxy (alcohol protection)
SES	Trimethylsilylethylsulfonyl (amine protection SO ₂ CH ₂ CH ₂ SiMe ₃)
Sia ₂ BH	Disiamylborane (Me ₂ CHMeCH) ₂ BH
TASF	Tris(dimethylamino)sulfonium difluorotrimethylsilicate
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
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
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	Trichloroethyloxycarbonyl (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)



Name Reagents and Trade Names

Brederick Reagent	Dimethoxydimethylaminomethane (amide acetal)	 <p style="text-align: center;">Dess-Martin</p>	
Burgess Reagent	MeO ₂ CN ⁻ SO ₂ N ⁺ (Et) ₃ (alcohol dehydration)		
Caro's Acid	Sulfomonoperacid HOSO ₂ OOH		
Colman's Reagent	Disodium Iron Tetracarbonyl		
Corey-Kim Reagent	Dimethyl sulfide-chlorine		
Danishefsky's Diene	1-Methoxy-3-trimethylsiloxybuta-1,3-diene		
Dess-Martin Periodinane			
Diazald	N-Methyl-N-nitroso-p-toluenesulfonamide (diazomethane)		
Eschenmoser's Salt	Me ₂ N ⁺ =CH ₂ I ⁻ (Mannich reagent)		
Freons (Fluorohalocarbons)	11 (CFCl ₃), 12 (CF ₂ Cl ₂), 13 (CF ₃ Cl), 13B1 (CF ₃ Br), 14 (CF ₄), 21 (CHFCl ₂), 22 (CHF ₂ Cl), 23 (CHF ₃), 114 (CF ₂ ClCF ₂ Cl), 116 (CF ₃ CF ₃)		
Fremy's Salt	(KO ₃ S) ₂ NO	 <p style="text-align: center;">Lawesson</p>	
Gilman Reagents	Lithium Diorganocuprates		
Hünig's Base	Diisopropylethylamine (base catalyst)		
Jones Reagent	Chromic acid in acetone		
Lawesson Reagent			
Lindlar Catalyst	Pd on CaCO ₃ /PbO		
Mander's Reagent	Methyl cyanofornate (NCC(=O)OMe)		
Meerwein's Salt	Triethyloxonium Fluoroborate (Me ₃ O ⁺ BF ₄ ⁻ , methylating reagent)		
Mosher Esters	α-Methoxy-α-trifluoromethylphenylacetates		
Oxone	Potassium monopersulfate (KHSO ₅)		
Red-Al	Sodium bis(2-methoxyethoxy)aluminum Hydride	 <p style="text-align: center;">Tebbe</p>	
Selectride	tri-sec-butylborohydride (L = Li, K = potassium)		
Simmons-Smith Reagent	CH ₂ I ₂ -Zn(Cu)		
Skellysolve	Petroleum ether solvents (alkane fractions)		
Super Hydride	Sodium Triethylborohydride		
Tebbe's Reagent	Cp ₂ Ti(CH ₂)(Cl)AlMe ₂		
Viehe's Salt	Me ₂ N ⁺ =CCl ₂ Cl ⁻		
Vilsmeier Reagent	Me ₂ N ⁺ =CHCl Cl ⁻		
Wieland-Miescher Ketone			 <p style="text-align: center;">Wieland-Miescher</p>
Wilkinson's Catalyst	(Ph ₃ P) ₃ RhCl		
Wittig Reagent	Ph ₃ P=CR ₂		

Spectroscopy and Separation Acronyms

ASIS	Aromatic solvent induced shifts (NMR)
δ	Chemical shift (NMR)
CD	Circular Dichroism
CI	Chemical Ionization (mass spec)
CIDNP	Chemically Induced Dynamic Nuclear Polarization
CMR	Carbon-13 Magnetic Resonance
COSY	Correlation Spectroscopy (NMR)
DEPT	Distortionless Enhancement by Polarization Transfer (NMR)
DNMR	Dynamic NMR
EI	Electron Impact (MS)
ENDOR	Electron Nuclear Double Resonance
ESR (=EPR)	Electron (Paramagnetic) Spin Resonance
EXAFS	Extended X-Ray Absorption Fine Spectrum
EXSY	Exchange spectroscopy (NMR saturation transfer)
FAB	Fast Atom Bombardment (MS)
FID	Flame Ionization Detector (VPC)
FID	Free Induction Decay (NMR)
FT	Fourier Transform

GLC	Gas-liquid Chromatography (VPC)
HETCOR	Heteronuclear correlation (NMR)
HMQC	Proton detected Heteronuclear Multiquantum Coherence (NMR)
HOESY	Heteronuclear Overhauser Spectroscopy (NMR)
HPLC	High Performance Liquid Chromatography
ICR	Ion Cyclotron Resonance
INDOR	Internuclear Double Resonance
INEPT	Insensitive Nuclei Enhanced by Polarization Transfer (NMR)
IR	Infrared
<i>J</i>	Coupling Constant (NMR)
LC	Liquid Chromatography
LIS	Lanthanide Induced shifts (NMR)
MCD	Magnetic Circular Dichroism
MS	Mass spectrum
NMR	Nuclear Magnetic Resonance
NOE(SY)	Nuclear Overhauser Effect (Spectroscopy)
OD	Optical Density
ORD	Optical Rotatory Dispersion
ORTEP	Oak Ridge Thermal Ellipse Program
PES	Photoelectron Spectroscopy
R_f	Retention Factor (chromatography)
ROESY	Rotating frame Nuclear Overhauser Spectroscopy (NMR)
TLC	Thin Layer Chromatography
UV	Ultraviolet spectroscopy
VPC	Vapor Phase Chromatography (GLC)
XPS	(ESCA) X-Ray Photoelectron Spectroscopy