

# Abbreviations Used in Organic Chemistry

## Functional Groups

Abbrev.	Name	Abbrev.	Name
Ac	Acetyl	Bn	Benzyl
BOC	t-butoxycarbonyl	Bu	n-butyl
Bz	Benzoyl	Et	Ethyl
CBz	Carbobenzyloxy	Cp	Cyclopentadienyl
iPr	isopropyl	Cy	Cyclohexyl
Dnp	2,4-Dinitrophenyl	Me	Methyl
Mes	Mesityl	MOM	methoxymethyl
Ms	Methanesulfonyl	TBDMS, TBS	t-butyldimethylsilyl
Naphth	Naphthyl	t-Bu	Tert-butyl
Ph	Phenyl	Tol	Tolyl
Pip	Piperidyl	THP	Tetrahydropyranyl
TMS	Trimethylsilyl	sBu	sec-butyl
Tr	Trityl	Ns	Nitrobenzenesulfonyl
Nps	2-Nitrophenylsulfonyl	PMB	p-Methoxybenzyl
Tf	Trifluoromethanesulfonyl	Phth	Phthaloyl

Abbrev.	Name
Fmoc	(9H-Fluoren-9-ylmethoxy)carbonyl
TRIS	Triisopropylphenylsulfonyl
SEM	2-(Trimethylsilyl)ethoxymethyl
Ts	p-Toluenesulfonyl (=Tosyl)

## Chemical Compounds

Abbrev.	Name	Abbrev.	Name
DMAP	4-dimethylaminopyridine	DME	dimethoxyethane
AIBN	Azo-bis-isobutyronitrile	DMF	N,N'-dimethylformamide
9-BBN	9-borabicyclo[3.3.1]nonane	Dvb	Divinylbenzene
Bpy(Bipy)	2,2'-bipyridyl	EDA (en)	ethylenediamine
FMN	Flavin mononucleotide	CAN	Ceric ammonium nitrate
COT	1,3,5-cyclooctatrienyl	1,5-HD	1,5-hexadienyl
CSA	10-camphorsulfonic acid	LDA	Lithium diisopropylamide
Db	Dibenzylidene acetone	DBE	1,2-dibromoethane
DCE	1,2-dichloroethane	DEA	Diethylamine
DEAD	Diethyl azodicarboxylate	MTM	Methylthiomethyl
NBD	Norbornadiene	NBS	N-Bromosuccinimide
NCS	N-chlorosuccinimide	TBHP	t-butylhydroperoxide

PCC	Pyridinium chlorochromate	PDC	Pyridinium dichromate
TEBA	Triethylbenzylammonium	PEG	Polyethylene glycol
TFA	Trifluoroacetic acid	TFAA	Trifluoroacetic anhydride
TMEDA	Tetramethylethylenediamine	THF	Tetrahydrofuran
Py	Pyridine	MEK	Methyl Ethyl Ketone
TMP	2,2,6,6-tetramethylpiperidine	PCC	Pyridinium Chlorochromate
Fc	Ferrocene	TTF	Tetrathiafulvalene
HMPA	Hexamethylphosphoric Triamide	DMA	N,N-Dimethylacetamide

Abbrev.	Name
DMAP	4-Dimethylaminopyridine
diphos (dppe)	1,2-bis (diphenylphosphino)ethane
BINAP	2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl
Dppp	1,3-bis (diphenylphosphino)propane
Dppf	bis(diphenylphosphino)ferrocene
CTAB	Cetyltrimethylammonium bromide
HMPT	Hexamethylphosphorous Triamide
BSA	N,O-Bis(trimethylsilyl)acetamide
TBAF	Tetrabutylammonium fluoride
NMO	N-methyl morpholine-n-oxide
EDTA	Ethylenediaminetetraacetic acid

## Amino Acids

Abbreviation	Name	Abbreviation	Name		
A	Ala	Alanine	C	Cys	Cysteine
D	Asp	Aspartic Acid	E	Glu	Glutamic Acid
F	Phe	Phenylalanine	G	Gly	Glycine
H	His	Histidine	I	Ile	Isoleucine
K	Lys	Lysine	L	Leu	Leucine
M	Met	Methionine	N	Asn	Asparagine
P	Pro	Proline	Q	Gln	Glutamine
R	Arg	Arginine	S	Ser	Serine
T	Thr	Threonine	V	Val	Valine
W	Trp	Tryptophan	Y	Tyr	Tyrosine
Nle		Norleucine	Nva		Norvaline
Orn		Ornithine	Pen		Penicillamine
Phg		Phenylglycine	Sar		Sarcosine