

保护基缩略语、全名大全

中国化学化工论坛

注意：在某些例子中，不同的缩略语代表相同的保护基，或者相同的缩略语代表不同的保护基；列表根据"protective groups in organic synthesis " third edition整理。整理过程中可能有疏漏和错误，欢迎大家指出，以便完善。全名中的alpha代表 α

此外欢迎大家在回复中补充新的缩略语。补充格式：缩略语 全名

	2,7,8-trioxabicyclo[3.2.1]octyl
ABO	acetyl
AC	4-azidobenzyloxycarbonyl
ACBZ	2-acetoxy-4-methoxybenzyl
AcHmb	acetamidomethyl
Acm	1-adamantyl
Ad	1-adamantylloxycarbonyl
Adoc	1-(1-adamantyl)-1-methylethoxycarbonyl
Adpoc	allyloxycarbonyl
Alloc or AOC	allylsulfonyl
Als	2-(acetoxymethyl)benzoyl
AMB	4-methoxyphenyl or anisyl
AN	2-(4-acetyl-2-nitrophenyl)ethyl
Anpe	allyloxycarbonyl
AOC or Alloc	p-anisylloxymethyl or (4-methoxyphenoxy)methyl
p-AOM	p-azidobenzyl
Azb	benzamidomethyl
Bam	butane-2,3-bisacetal
BBA	biphenyldimethylsilyl
BDMS	1,3-benzodithiolan-2-yl
Bdt	benzothiazole-2-sulfonyl
Betsyl or Bts	5-benzisoxazolylmethoxycarbonyl
Bic	5-benzisoazolylmethylene
Bim	benz[f]inden-3-ylmethoxycarbonyl
Bimoc	N-2,5-bis(triisopropylsiloxy)pyrrolyl
BIPSOP	
	o-(benzoyloxymethyl)benzoyl
BMB	2,4-dimethylthiophenoxycarbonyl
Bmpc	bis(4-methoxyphenyl)-1'-pyrenylmethyl
Bmpm	benzyl
Bn	2,2-bis(4'-nitrophenyl)ethoxycarbonyl
Bnpeoc	t-butoxycarbonyl
BOC	benzyloxymethyl
BOM	1-methyl-1-(4-biphenyl)ethoxycarbonyl
Bpoc	benzoSTABASE
BSB	1,1-dioxobenzo[b]thiophene-2-ylmethoxycarbonyl
Bsmoc	benzothiazole-2-sulfonyl
Bts or Betsyl	2-t-butylsulfonyl ethyl
B`SE	t-butoxymethyl
Bum	1-(3,5-di-t-butylphenyl)-1-methylethoxycarbonyl
t-Bumeoc	t-butylsulfonyl
Bus	benzoyl
Bz	2-[(2-chloroacetoxy)ethyl]benzoyl
CAEB	

Cam	carboxamidomethyl
CAMB	2-(chloroacetoxymethyl)benzoyl
Cbz or Z	benzyloxycarbonyl
CDA	cyclohexane-1,2-diacetal
CDM	2-cyano-1,1-dimethylethyl
CE or Cne	2-cyanoethyl
Cee	1-(2-chloroethoxy)ethyl
cHex	cyclohexyl
Climoc	2-chloro-3-indenylmethoxycarbonyl
Cms	carboxymethylsulfenyl
Cne or CE	2-cyanoethyl
Coc	cinnamyloxycarbonyl
Cpeoc	2-(cyano-1-phenyl)ethoxycarbonyl
CPTTr	4,4',4''-tris(4,5-dichlorophthalimido)triphenylmethyl
CTMP	1-[(2-chloro-4-methyl)phenyl]-4-methoxypiperidin-4-yl
Cys	cysteine
DAM	di-p-anisylmethyl or bis(4-methoxyphenyl)methyl
DATE	1,1-di-p-anisyl-2,2,2-trichloroethyl
DB-t-BOC	1,1-dimethyl-2,2-dibromoethoxycarbonyl
DBD-Tmoc	2,7-di-t-butyl[9-(10, 10-dioxo-10,10,10-tetra=hydrothioxanthyl)]
DBS	methoxycarbonyl
Dde	dibenzosuberyl
Ddz	2-(4,4-dimethyl-2,6-dioxocyclohexylidene)ethyl
DEM	1-methyl-1-(3,5-dimethoxyphenyl)ethoxycarbonyl
DEIPS	diethoxymethyl
Desyl	diethylisopropylsilyl
Dim	2-oxo-1,2-diphenylethyl
	1,3-dithianyl-2-methyl
Dmab	
DMB	4-(N-[1-(4,4-dimethyl-2,6-dioxocyclohexylidene)-3-methylbutyl]amino)
Dmb	benzyl
DMIPS	“3',5'-dimethoxybenzoin”
Dmoc	2,4-dimethoxybenzyl
Dmp	dimethylisopropylsilyl
Dmp	dithianylmethoxycarbonyl
DMPM	2,4-dimethyl-3-pentyl
DMT or DMTr	dimethylphosphinyl
DMTr or DMT	3,4-dimethoxybenzyl
DNB	di(p-methoxyphenyl)phenylmethyl or dimethoxytrityl
DNMBS	di(p-methoxyphenyl)phenylmethyl or dimethoxytrityl
DNP	p,p'-dinitrobenzhydrl
Dnpe	4-(4',8'-dimethoxynaphthylmethyl)benzenesulfonyl
Dnpeoc	2,4-dinitrophenyl
DNs	2-(2,4-dinitrophenyl)ethyl
Dnseoc	2-(2,4-dinitrophenyl)ethoxycarbonyl
Dobz	2,4-dinitrobenzenesulfonyl
Doc	2-dansylethoxycarbonyl
DOPS	p-(dihydroxyboryl)benzyloxycarbonyl
DPA	2,4-dimethylpent-3-yloxycarbonyl
DPIPS	dimethyl[1,1-dimethyl-3-(tetrahydro-2H-pyran-2-yloxy)propyl]silyl
DPM or Dpm	diphenylacetyl
DPMS	diphenylisopropylsilyl
Dpp	diphenylmethyl
Dppe	diphenylmethylsilyl

Dppm	diphenylphosphinyl
DPSE	2-(diphenylphosphino)ethyl
Dpt	(diphenyl-4-pyridyl)methyl
DPTBS	2-(methyldiphenylsilyl)ethyl
DTBMS	diphenylphosphinothioyl
DTBS	diphenyl-t-butoxysilyl or diphenyl-t-butylsilyl
DTE	di-t-butylmethylsilyl
Dts	di-t-butylsilylene
EE	2-(hydroxyethyl)dithioethyl or "dithiodiethanol"
EOM	dithiasuccinimidyl
Fcm	1-ethoxyethyl
Fm	ethoxymethyl
Fmoc	ferrocenylmethyl
GUM	9-fluorenylmethyl
HBn	9-fluorenylmethoxycarbonyl
HIP	guaiaacilmethyl
	2-hydroxybenzyl
Hoc	1,1,1,3,3,3-hexafluoro-2-phenylisopropyl
HSDIS	
HSDMS	cyclohexyloxycarbonyl
hZ or homo 2	(hydroxystyryl)diisopropylsilyl
IDTr	(hydroxystyryl)dimethylsilyl
IETr	homobenzyloxycarbonyl
iMds	3-(imidazol-1-ylmethyl)-4',4"-dimethoxytriphenylmethyl
Ipaoc	4,4'-dimethoxy-3"-[N-(imidazolethyl)carbamoyl]trityl
Ipc	2,6-dimethoxy-4-methylbenzenesulfonyl
IPDMS	1-isopropylallyloxycarbonyl
Lev	isopinocampheyl
LevS	isopropylidimethylsilyl
LevS	levulinoyl
MAQ	4,4-(ethylenedithio)pentanoyl
MBE	levulinoyldithioacetal ester
MBF	2-(9,10-anthraquinonyl)methyl or 2-methyleneanthraquinone
MBS or Mbs	1-methyl-1-benzyloxyethyl
Mds	2,3,3a,4,5,6,7,7a-octahydro-7,8,8-trimethyl-4,7-methanobenzofuran-2-yl
MEC	p-methoxybenzenesulfonyl
MEM	2,6-dimethyl-4-methoxybenzenesulfonyl
Menpoc	alpha-methylcinnamyl
MeOZ or Moz	2-methoxyethoxymethyl
Mes	alpha-methylnitropiperonyloxycarbonyl
MIP	p-methoxybenzyloxycarbonyl
MM	mesityl or 2,4,6-trimethylphenyl
MMT or MMTTr	methoxyisopropyl or 1-methyl-1-methoxyethyl
MMTr or MMT	menthoxymethyl
MOM	p-methoxyphenyldiphenylmethyl
MOMO	p-methoxyphenyldiphenylmethyl
Moz or Meoz	methoxymethyl
MP	methoxymethoxy
MPM or PMB	p-methoxybenzyloxycarbonyl
Mps	p-methoxyphenyl
Mpt	p-methoxyphenylmethyl or p-methoxybenzyl
Ms	p-methoxyphenylsulfonyl
Msib	dimethylphosphinothioyl
Msz	methanesulfonyl or mesyl

Mtb	4-(methylsulfinyl)benzyl
Mte	4-methylsulfinylbenzyloxycarbonyl
MTHP	2,4,6-trimethoxybenzenesulfonyl
MTM	2,3,5,6-tetramethyl-4-methoxybenzenesulfonyl
MTMB	4-methoxytetrahydropyranyl methylthiomethyl
MTMECO	4-(methylthiomethoxy)butyryl
MTMT	
Mtpc	2-(methylthiomethoxy)ethoxycarbonyl
Mtr	2-(methylthiomethoxymethyl)benzoyl
Mts	4-(methylthio)phenoxy carbonyl
NBOM	2,3,6-trimethyl-4-methoxybenzenesulfonyl
Ne	2,4,6-trimethylbenzenesulfonyl or mesitylenesulfonyl
Noc	nitrobenzyloxymethyl
Nosyl or Ns	2-nitroethyl
Npe or npe	4-nitrocinnamyloxycarbonyl
Npeoc	2- or 4-nitrobenzenesulfonyl
Npes	2-(nitrophenyl)ethyl
NPS or Nps	2-(4-nitrophenyl)ethoxycarbonyl
NpSSPeoc	2-(4-nitrophenyl)ethylsulfonyl
Npys	2-nitrophenylsulfonyl
Ns or Nosyl	2-[(2-nitrophenyl)dithio]-1-phenylethoxycarbonyl
NVOC or Nvoc	3-nitro-2-pyridinesulfonyl
OBO	2- or 4-nitrobenzenesulfonyl
ONB	3,4-dimethoxy-6-nitrobenzyloxycarbonyl or 6-nitroveratryloxycarbonyl
PAB	2,6,7-trioxabicyclo[2.2.2]octyl
PAC _H	o-nitrobenzyl
PAC _M	p-acylaminobenzyl
Paloc	2-[2-(benzyloxy)ethyl]benzoyl
Pbf	2-[2-(4-methoxybenzyloxy)ethyl]benzoyl
Peoc	3-(3-pyridyl)allyloxycarbonyl or 3-(3-pyridyl)prop-2-enyloxycarbonyl
Peoc	2,2,4,6,7-pentamethyl-dihydrobenzofuran-5-sulfonyl
Pet	2-phosphonioethoxycarbonyl
Pf	2-(triphenylphosphonio)ethoxycarbonyl
Phamc	2-(2'-pyridyl)ethyl
Phenoc	9-phenylfluorenyl
Pim	phenylacetamidomethyl
Pixyl or Px	4-methoxyphenacyloxycarbonyl
PMB or MPM	phthalimidomethyl
PMBM	9-(9-phenyl)xanthenyl
Pmc	p-methoxybenzyl or p-methoxyphenylmethyl
Pme	p-methoxybenzyloxymethyl
PMP	2,2,5,7,8-pentamethylchroman-6-sulfonyl
PMS	pentamethylbenzenesulfonyl
PNB	p-methoxyphenyl
PNP	p-methylbenzylsulfonyl
PNPE	p-nitrobenzyl
POM	p-nitrophenyl
POM	2-(4-nitrophenyl)ethyl
PP	4-pentenylloxymethyl
Ppoc	pivaloyloxymethyl
PPt	2-phenyl-2-propyl
	2-triphenylphosphonioisopropoxycarbonyl

PSE	diphenylthiophosphinyl
Psec	2-(phenylsulfonyl)ethyl
PTE	2-(phenylsulfonyl)ethoxycarbonyl
PTM	2-(4-nitrophenyl)thioethyl
Pv	phenylthiomethyl
Px or pixyl	pivaloyl
Pyet	9-(9-phenyl)xanthenyl
Pyoc	1-(alpha-pyridyl)ethyl
Qm	2-(2'-or 4'-pyridyl)ethoxycarbonyl
SATE	2-quinolinylmethyl
Scm	S-acetylthioethyl
SEE	S-carboxymethylsulfenyl
SEM	1-[2-(trimethylsilyl)ethoxy]ethyl
SES	2-(trimethylsilyl)ethoxymethyl
Sisyl	2-(trimethylsilyl)ethanesulfonyl
SMOM	tris(trimethylsilyl)silyl
Snm	(phenyldimethylsilyl)methoxymethyl
STABASE	S-(N'-methyl-N'-phenylcarbamoyl)sulfenyl
Tacm	1,1,4,4-tetramethyldisilylazacyclopentane
TBDMS or TBS	trimethylacetamidomethyl
TBDPS	t-butyltrimethylsilyl
Tbf-DMTr	t-butyl-diphenylsilyl
Tbfmoc	4-(17-tetrabenzofluorenylmethyl-4',4''-dimethoxytrityl)
TBDS	17-tetrabenzofluorenylmethoxycarbonyl
TBMPS	tetra-t-butoxydisiloxane-1,3-diylidene
TBS or TBDMS	t-butylmethoxyphenylsilyl
TBTr	t-butyltrimethylsilyl
TCB	4,4',4''-tris(benzyloxy)triphenylmethyl
TcBOC	2,2,2-trichloro-1,1-dimethylethyl
TCP	1,1-dimethyl-2,2,2-trichloroethoxycarbonyl
Tcroc	N-tetrachlorophthalimido
Tcrom	2-(trifluoromethyl)-6-chromonylmethyleneoxycarbonyl
TDE	2-(trifluoromethyl)-6-chromonylmethylene
TDS	(2,2,2-trifluoro-1,1-diphenyl)ethyl
Teoc	hexyldimethylsilyl
TES	2-(trimethylsilyl)ethoxycarbonyl
Tf	triethylsilyl
TFA	trifluoromethanesulfonyl
Tfav	trifluoroacetyl
Thexyl	4,4,4-trifluoro-3-oxo-1-butenyl
THF	2,3-dimethyl-2-butyl tetrahydrofuran
THP	tetrahydropyranyl
TIBS	triisobutylsilyl
TIPDS	1,3-(1,1,3,3-tetraisopropyl)disiloxanylidene
TIPS	triisopropylsilyl
TLTr	triisopropylsilyl
Tmb	4,4',4''-tris(levulinoyloxy)triphenylmethyl
Tmob	2,4,6-trimethylbenzyl
TMPM	trimethoxybenzyl
TMS	trimethoxyphenylmethyl
TMSE or TSE	trimethylsilyl
TMSEC	2-(trimethylsilyl)ethyl
TMSP	2-(trimethylsilyl)ethoxycarbonyl

TMTr	2-trimethylsilylprop-2-enyl
Tos or Ts	tris(p-methoxyphenyl)methyl
TPS	p-toluenesulfonyl
TPTE	triphenylsilyl
Tr	2-(4-triphenylmethylthio)ethyl
Tritylone	triphenylmethyl or trityl
Troc	9-(9-phenyl-10-oxo)anthryl
Ts or Tos	2,2,2-trichloroethoxycarbonyl
TSE or TMSE	p-toluenesulfonyl
Tse	2-(trimethylsilyl)ethyl
Voc	2-(p-toluenesulfonyl)ethyl
Z or Cbz	vinylloxycarbonyl benzyloxycarbonyl