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LIST OF ABBREVIATIONS

Ac	=	acetyl
Ar	=	aromatic
Bn	=	benzyl
Bu	=	butyl
br	=	broad
Bz	=	benzoyl
CAN	=	ceric ammonium nitrate
Cbz	=	benzyloxycarbonyl
¹³ C NMR	=	Carbon nuclear magnetic resonance
CDCl ₃	=	deuterated chloroform
CHCl ₃	=	chloroform
dba	=	dibenzylideneacetone
DBU	=	1,8-diazabicyclo[5.4.0]undec-7-ene
DCC	=	dicyclohexyl carbodiimide
DCM	=	dichloromethane
dd	=	doublet of doublet
ddd	=	doublet of doublet of doublet
DMAP	=	4-dimethylaminopyridine
DME	=	1,2-dimethoxyethane
DMF	=	<i>N,N</i> -dimethylformamide
DMSO	=	dimethylsulfoxide
ee	=	enantiomeric excess
EI	=	electron impact
eq.	=	equivalent
FTIR	=	Fourier transform infrared spectroscopy
h	=	hour
¹ H NMR	=	Proton nuclear magnetic resonance
HPLC	=	high performance liquid chromatography
HRMS	=	high resolution mass spectroscopy
Hz	=	Hertz

LIST OF ABBREVIATIONS (cont'd)

ES	=	electrospray
Et	=	ethyl
Et ₂ O	=	diethyl ether
EWG	=	electron withdrawing group
<i>o</i>	=	ortho
<i>J</i>	=	coupling constant
m	=	multiplet
MCRs	=	multi-component reactions
Me	=	methyl
MeCN	=	acetonitrile
min	=	minute
m.p.	=	melting point
MS	=	mass spectroscopy
NMR	=	nuclear magnetic resonance
NMM	=	<i>N</i> -methyl maleimide
n.O.e	=	nuclear Overhauser effect
Nu	=	nucleophile
Ph	=	phenyl
<i>p</i>	=	para
q	=	quartet
r.t.	=	room temperature
s	=	singlet
t	=	triplet
TBDPS	=	<i>t</i> -butyldiphenylsilyl
TBS	=	<i>t</i> -butyldimethylsilyl
TFA	=	trifluoroacetic acid
TFP	=	tris(2-furyl)phosphine
THF	=	tetrahydrofuran

TMS	=	trimethylsilyl
TMSOTf	=	trimethylsilyl trifluoromethylsulfonate
TS	=	<i>p</i> -toluenesulfonyl