

A B B R E V I A T I O N S

ab	absolute
aq	aqueous
n-BuLi	n-butyllithium
CSA	camphor-10-sulphonic acid
C ₆ H ₁₄	n-hexane
CO	carbonyl
DDQ	2,3-dichloro-5,6-dicyanoquinone
DMAD	dimethyl acetylenedicarboxylate
DMF	N,N-dimethylformamide
eq	equivalent
glac	glacial
h	hour
LDA	lithium diisopropylamide
LAH	Lithium aluminim hydride
min	minute
MSA	Methanesulphonic acid
py	pyridine
RT	room temperature
ref	reference
satd	saturated
soln	solution
TMSCl	trimethylsilyl chloride or chlorotrimethylsilane
p-TSA	p-toluenesulphonic acid
THF	tetrahydrofuran
temp	temperature
△	denotes heating at reflux temperature