

Abbreviations used:

Ac	: acetate	K ₂ CO ₃	: potassium carbonate
Ar	: aryl	KOH	: potassium hydroxide
Bn	: benzyl	LC	: liquid chromatography
bs	: broad signal	m	: multiplet
Bu	: butyl	MCR	: multi-component reaction
CDCl ₃	: deuteriochloroform	m. p.	: melting point
CHCl ₃	: chloromethane	m/z	: mass-to-charge ratio
CH ₃ COOH	: acetic acid	MW	: microwave
cm ⁻¹	: reciprocal centimeters (wavenumber)	Me	: methyl
Calcd	: calculated	ms	: mass spectrum
°C	: degree centigrade	NaOMe	: sodium methoxide
¹³ C	: carbon-13	MeOH	: methanol
d	: doublet	NaH	: sodium hydride
DMAD	: dimethyl acetylene dicarboxylate	s	: singlet
DCM	: dichloromethane	Na ₂ SO ₄	: sodium sulphate
DMF	: dimethyl formamide	NMR	: nuclear magnetic resonance
DMSO	: dimethyl sulphoxide	psi	: pound per square inch (Pressure unit)
Et	: ethyl	δ	: chemical shift
EI	: electron ionization	<i>J</i>	: coupling constant
ESI	: electro-spray ionization	t	: triplet
GC	: gas chromatography	TMS	: tetramethylsilane
IR	: Infra red	rt	: room temperature
h	: hour		
¹ H	: proton		
IL	: ionic liquid		
Hz	: Hertz (unit of frequency)		