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Isomerisation and ring closing metathesis reactions towards benzo-fused heterocyclic compounds

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LIST OF ABBREVIATIONS

ADMET Acyclic diene metathesis polymerization

((R)-BINAP) (R)-(+)-2,2′- bis(diphenylphosphino)-1,1′-binaphthyl

((S)-BINAP) (S)-(+)-2,2′- bis(diphenylphosphino)-1,1′-binaphthyl

Boc *t*-Butoxycarbonyl

t-BuOK Potassium *tert*-Butoxide

Boc_2O Di-*t*-butyl dicarbonate

Cod Cyclo-octadiene

CM Cross metathesis

DCPD Dicyclopentadiene

DCM Dichloromethane

((R,R)-DIOP) (4R,5R)-(-)-O-isopropylidene-2,3-dihydroxy-1,4-bis(diphenylphosphino)butane

((S,S)-DIOP) (4S, 5S)-(+)-O-isopropylidene-2,3-dihydoxy-1,4-bis(diphenylphosphino)butane

DMF *N*,*N*-Dimethylformamide

DMSO Dimethyl sulfoxide

DPPE 1,2-Bis(diphenylphoshino)ethane

DPPP 1,3-Bis(diphenylphosphine)propane

HDT Heat deflection temperature

HRMS High resolution mass spectroscopy

IR Infrared

Mes	1,3,5-Mesitylene-2-yl
NHC	*N*-heterocyclic carbene
NMR	Nuclear Magnetic Resonance
RCM	Ring closing metathesis
ROM	Ring opening metathesis
ROMP	Ring opening metathesis polymerisation
SHOP	Shell higher olefin process
TFA	Trifluoroacetic acid
THF	Tetrahydrofuran
TLC	Thin layer chromatography
*p*TSA	*p*-Toluenesulfonic acid
TsCl	*p*-Toluenesulfonyl chloride