

„Allylcalcium Complexes: Synthesis, Reactivity and Application in Homogeneous Catalysis”

Von der Fakultät für Mathematik, Informatik und Naturwissenschaften der
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Berichte aus der Chemie

Phillip Jochmann

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„Wer sich Sorgen macht, löst keine Probleme. Er vertieft sie.“

U. H. Rose

„Freilich muß, wer auf Erkenntnis ausgeht, dies um ihrer selbst willen tun. Denn hier winkt seitens der Menschen kein Lohn, für die darauf verwandte Mühe.“

Aristoteles

List of Abbreviations

a.u.	arbitrary units
Ar	aromatic group
br	Broad
Bu	Butyl
cat	catalyst
CL	caprolactone
CN	coordination number
COSY	correlated spectroscopy
COT	1,3,5,7-cyclooctatetraene
Cp	cyclopentadienyl
Cp*	pentamethylcyclopentadienyl
d	doublet
DFT	density functional theory
Dipp	2,6-diisopropylphenyl
DME	1,2-dimethoxyethane
DSC	differential scanning calorimetry
<i>ee</i>	enantiomeric excess
equiv	equivalent
Et	Ethyl
Fu	furan(derivative)
GC	gas chromatography
GPC	gel permeation chromatography
HMPA	hexamethylphosphoramide
HSQC	heteronuclear multiple bond correlation
L	neutral two electron ligand
LA	lactide
lu	lutidine
m	multiplet
M	Metal
M_n	number average molecular weight
M_w	weight average molecular weight
Me	methyl
MMA	methyl methacrylate
mon	monomer
MS	mass spectrometry

(nacnac)H	4-(methylimino)pent-2-en-2-amine
NMR	nuclear magnetic resonance
PBD	poly(butadiene)
PDI	polydispersity index ($= M_w/M_n$)
Ph	phenyl
ppm	parts per million
Pr	propyl
py	pyridine
q	quartet
quint	quintet
R	alkyl group
ref(s)	reference(s)
RI	refractive index
ROP	ring opening polymerization
t	triplet
(Me ₃ TACD)H	1,4,7-trimethyl-1,4,7,10-tetraazacyclododecane
THF	tetrahydrofuran
TMC	trimethylene carbonate
TMEDA	N,N,N',N'-tetramethyl-ethane-1,2-diamine
TMM	trimethylenemethane dianion, C ₄ H ₆ ²⁻
TMS	tetramethylsilane
UV	ultraviolet
X ⁻	monoanionic ligand

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