Supporting Information of

**Addition of Water to Zinc Triflate Promotes Novel Reaction:
Stereoselective Mannich-Type Reaction of Chiral Aldimines
with 2-Silyloxybutadienes**

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¹H NMR Spectra of **4a-4j** (Table 1) and **5a-5d** (Table 2).

Current Data Parameters
NAME Phval-standard
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010606
Time 16.14
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 40
DS 2
SWH 10330.578 Hz
FIDRES 0.315264 Hz
AQ 1.5860212 sec
RG 32
RG 48.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.80 usec
PL1 1.00 dB
SFO1 500.1330885 MHz

F2 - Processing parameters
SI 16384
SF 500.130500 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
FIP 9.000 ppm
F1 4501.17 Hz
F2P -0.100 ppm
F2 -50.01 Hz
PPMCH 0.30333 ppm/cm
HZCM 151.70680 Hz/cm

Current Data Parameters
 NAME o-tol-p
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010531
 Time 11:57
 INSTRUM spect
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 40
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.315264 Hz
 AQ 1.5850212 sec
 RG 32
 DW 48.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.80 usec
 PL1 1.00 dB
 SFO1 500.1330885 MHz

F2 - Processing parameters
 SI 16384
 SF 500.1300128 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 P1P 9.000 ppm
 F1 4501.17 Hz
 F2P -0.100 ppm
 F2 -50.01 Hz
 PPMCM 0.30333 ppm/cm
 HZCM 151.70679 Hz/cm

Current Data Parameters
NAME: mcolph2-629
EXPNO: 10
PROCNO: 1

F2 - Acquisition Parameters
Date_: 20010629
Time: 15:29
INSTRUM: spect
PROBHD: 5 mm Multinu
PULPROG: zg30
TD: 32768
SOLVENT: CDCl3
NS: 40
DS: 2
SWH: 10310.578 Hz
FIDRES: 0.315264 Hz
AQ: 1.5860212 sec
RG: 32
RC: 48.400 usec
DE: 6.00 usec
TE: 300.0 K
D1: 1.00000000 sec

===== CHANNEL f1 =====
NUC1: 1H
P1: 7.80 usec
PL1: 1.00 dB
SFO1: 500.1330885 MHz

F2 - Processing parameters
SI: 16384
SF: 500.1330475 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.00

1D NMR plot parameters
CX: 30.00 cm
FLP: 9.000 ppm
F1: 4501.17 Hz
F2P: -0.100 ppm
F2: -50.01 Hz
PPMCH: 0.30333 ppm/cm
HZCM: 151.70680 Hz/cm

Current Data Parameters
 NAME p-tol-p
 EXNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010531
 Time 12.10
 INSTRUM spect
 PROBRD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 40
 DS 2
 SM 10330.578 Hz
 FIDRES 0.315264 Hz
 AQ 1.5860212 sec
 RG 32
 DW 48.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUCl 1H
 P1 7.80 usec
 PL1 1.00 dB
 SFO1 500.130885 MHz

F2 - Processing parameters
 SI 16384
 SF 500.130500 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 FLP 9.000 ppm
 F1 4501.17 Hz
 F2P -0.100 ppm
 F2 -50.01 Hz
 PRMCK 0.10333 ppm/cm
 HZCN 151.70680 Hz/cm

Current Data Parameters
NAME Ph-resval
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010604
Time 10.22
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 8
DS 2
SWH 10330.578 Hz
FIDRES 0.315264 Hz
AQ 1.5860212 sec
RG 32
DM 48.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.80 usec
PL1 1.00 dB
SFO1 500.130885 MHz

F2 - Processing parameters
SI 16384
SF 500.130062 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 9.000 CPM
F1 4501.17 Hz
F2P -50.01 Hz
F2 0.30313 ppm/cm
PPMCM 151.70680 Hz/cm
HZCM

Current Data Parameters
NAME ocl-mesval
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010604
Time 10.26
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 8
DS 2
SWH 10330.578 Hz
FIDRES 0.315264 Hz
AQ 1.5860212 sec
RG 32
DW 48.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.80 usec
PL1 1.00 dB
SFO1 500.1330885 MHz

F2 - Processing parameters
SI 16384
SF 500.1300506 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 9.000 ppm
F1 4501.17 Hz
F2P -0.100 ppm
F2 -50.01 Hz
PRICK 0.30333 ppm/cm
H2CH 151.70680 Hz/cm

Current Data Parameters
 NAME: proj-mesval
 EXPNO: 10
 PROCNO: 1

F2 - Acquisition Parameters
 Date_: 20010604
 Time: 10:29
 INSTRUM: spect
 PROBD: 5 mm Multinu
 PULPROG: zgpg30
 TD: 32768
 SOLVENT: CDCl3
 NS: 8
 DS: 2
 SWH: 10330.578 Hz
 FIDRES: 0.315264 Hz
 AQ: 1.5860212 sec
 RG: 32
 DW: 48.400 usec
 DE: 6.00 usec
 TE: 300.0 K
 D1: 1.00000000 sec

***** CHANNEL f1 *****
 NUC1: 1H
 P1: 7.80 usec
 PL1: 1.00 dB
 SFO1: 500.1330885 MHz

F2 - Processing parameters
 S1: 16384
 SF: 500.1330500 MHz
 WDW: EM
 SSB: 0
 LB: 0.30 Hz
 GB: 0
 PC: 1.00

1D NMR plot parameters
 CX: 30.00 cm
 F1P: 9.000 ppm
 F1: 4501.17 Hz
 F2P: -0.100 ppm
 F2: -50.01 Hz
 PPMCH: 0.30333 ppm/cm
 HZCM: 151.70680 Hz/cm

Current Data Parameters
 NAME O-MeO-mesval
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010604
 Time 10.19
 INSTRUM spect
 PROBD 5 mm MUltinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 8
 DS 2
 SMH 10330.578 Hz
 FIDRES 0.315264 Hz
 AQ 1.5860212 sec
 RG 32
 DM 48.400 usec
 DE 5.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.80 usec
 PL1 1.00 dB
 SFO1 500.1330885 MHz

F2 - Processing parameters
 SI 16384
 SF 500.1300494 MHz
 XDW EX
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 F1P 9.000 ppm
 F1 4501.17 Hz
 F2P -0.100 ppm
 F2 -50.01 Hz
 PRNCK 0.10333 ppm/cm
 HZCM 151.70680 Hz/cm

[illegible]

Current Data Parameters
NAME o-tol-Mar2
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20011001
Time 21.16
INSTRUM spect
PROBHD 5 mm Maltinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 2
SWH 10330.578 Hz
FIDRES 0.315264 Hz
AQ 1.5860212 sec
RG 32
DE 48.400 usec
TE 300.0 K
D1 1.00000000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 7.80 usec
PL1 1.00 dB
SFO1 500.1330885 MHz

F2 - Processing parameters
SI 16384
SF 500.1300122 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 30.00 cm
F1P 9.000 ppm
F1 4501.17 Hz
F2P -0.100 ppm
F2 -50.01 Hz
PPMCK 0.30333 ppm/cm
HZCK 151.70679 Hz/cm

4.3086

7.4634

1.0000

3.3458

2.1711

3.2022

3.4187

3.1655

3.2117

Current Data Parameters
NAME pMe-Mannich
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters

Date_ 20010904

Time 10.26

INSTRUM spect

PROBHD 5 mm Multinu

PULPROG zg30

TD 32768

SOLVENT CDCl3

NS 4

DS 2

SWH 10330.578 Hz

FIDRES 0.315264 Hz

AQ 1.5860212 sec

RG 32

DM 48.400 usec

DE 6.00 usec

TE 300.0 K

D1 1.00000000 sec

===== CHANNEL f1 =====

NUC1 1H

P1 7.80 usec

PL1 1.00 dB

SFO1 500.133085 MHz

F2 - Processing parameters

SI 16384

SF 500.130062 MHz

WDW EM

SSB 0

LB 0.10 Hz

GB 0

PC 1.00

ID NMR plot parameters

CX 30.00 cm

F1P 9.000 ppm

F1 4501.17 Hz

F2P -0.100 ppm

F2 -50.01 Hz

PPMCM 0.30333 ppm/cm

HZCM 151.70680 Hz/cm

Current Data Parameters
 NAME PCI-Mant5
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20010927
 Time 21.42
 INSTRUM spect
 PROBD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 4
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.315264 Hz
 AQ 1.5860212 sec
 RG 32
 RW 48.400 usec
 DE 6.00 usec
 TE 300.0 K
 D1 1.00000000 sec

===== CHANNEL f1 =====
 NUC1 ¹H
 P1 7.80 usec
 PL1 1.00 dB
 SFO1 500.130885 MHz

F2 - Processing parameters
 SI 16384
 SF 500.1300103 MHz
 WDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 30.00 cm
 FLIP 9.000 ppm
 F1 4501.17 Hz
 F2P -0.100 ppm
 F2 -50.01 Hz
 FPMCH 0.30333 ppm/cm
 HZCH 151.70679 Hz/cm