Supporting information

Aromatic Allylation via Diazotization; Metal Free C-C Bond formation

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¹³C-NMR spectra for **1a-1l** and **1p**

Current Data Parameters
NAME F01INDC1
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010907

Time 16.16
INSTRUM spect
PROBHD 5 mm DUL 13C
PULPROG zgpg30
TO 49996
SOLVENT CDCl3
NS 544
DS 2
SWH 25125.629 Hz
FIDRES 0.506553 Hz
AQ 0.594504 sec
RG 327.28
GB 1.00
DE 1.00 usec
TE 300.0 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.00020000 sec

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

NUC1 13C
P1 5.50 usec
PL1 -6.00 dB
SF01 100.6237561 MHz

===== CHANNEL f2 =====

CPDPRG2 mltizig
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 400.1316005 MHz

F2 - Processing parameters

SI 32768
SF 100.6127290 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CA 27.00 cm
FID 27.00 cm
F1P 23.4452 ppm
F1 23569.89 Hz
F2P -15.264 ppm
F2 -1535.75 Hz
PRNCH 9.24912 ppm/cm
HZCH 930.57892 Hz/cm

Current Data Parameters
NAME f6010512
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 990913
Time 11.55

INSTRUM Spect
PROBHD 5 mm Dui 13
PULPROG zgpg30

TO 49996
SOLVENT CDCl3

NS 665
DS 2

SWH 25125.629 Hz
FIDRES 0.502553 Hz

AQ 0.9949704 sec
RG 32768

DM 19.900 usec
DE 10.50 usec

TE 300.0 K
D1 0.5000000 sec

D11 0.0300000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 1.50 usec
PL 1.50 dB

SFO1 100.627561 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 100.00 usec
PL2 -3.00 dB

PL12 15.00 dB
PL13 18.00 dB

SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.617290 MHz

WDW no
SSB 0

LB 0.00 Hz
GB 0

PC 1.40

10 NMR plot parameters
CX 27.00 cm
F1P 179.250 ppm

F1 18034.84 Hz
F2P 3.127 ppm

F2 314.63 Hz
PPMCM 6.52307 ppm/cm

HZCM 656.30402 Hz/cm

Current Data Parameters
NAME fe01049
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 990810
Time 8.12

INSTRUM spect
PROBHD 5 mm Dui1 13
PULPROG zgpg30
TO 46986
SOLVENT CDCl3
NS 724
DS 2
SWH 25125.629 Hz
FIDRES 0.502953 Hz
AQ 0.9949704 sec
RG 32768
DM 19.900 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

***** CHANNEL f1 *****
NUC1 ¹³C
P1 3.50 usec
PL1 -6.00 dB
SFO1 100.6237561 MHz

***** CHANNEL f2 *****
CPROG2 waltz16
NUC2 ¹H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 18.00 dB
SFO2 400.1315005 MHz

F2 - Processing parameters
SI 32768
SF 100.6172590 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

10 NMR plot parameters
CX 27.00 cm
F1P 179.250 ppm
F1 18034.84 Hz
F2P 3.127 ppm
F2 314.63 Hz
PPMCM 6.52307 ppm/cm
HZCM 656.30402 Hz/cm

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F2 - Acquisition Parameters
Date_      20010712
Time       13:52
          205
          195.72

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***** CHANNEL 11 *****
N01: 13C
P1 5.30 USC
P11 -6.00 dB
SF01 100 00
100 6237551 MHz

***** CHANNEL 12 *****
COP962 Mal216
N02: 1H
P092 100 00 USC
P12 -3.00 dB
P12 16.00 dB
P12 18.00 dB
SF02 100 00
400 1316005 MHz
```

PC	1.40	
GB	0	
LB	1.00 HZ	
SSB	0	
MDM	EN	
SF	100.6127290 MHz	
SI	32768	
F2 - Processing parameters		

10 NMR plot parameters	
CX	27.00 cm
F1P	234.462 ppb
F1	23569.88 Hz
F2P	-15.264 ppb
F2	-1535.75 Hz
PPMCH	9.24912 ppb/cm
HZCM	930.57866 Hz/cm

Current Data Parameters
 NAME fe01055
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters

Date_ 990813
 Time 11.19
 INSTRUM spect
 PROBRD 5 mm QNP 13
 PULPROG zgpg30
 TO 49996
 SOLVENT CDCl3
 NS 251
 DS 2
 SWH 25125.629 Hz
 FIDRES 0.506253 Hz
 AQ 0.5949704 sec
 RG 32768
 DB 19.900 usec
 DE 10.50 usec
 TE 300.0 K
 D1 0.50000000 sec
 D11 0.03000000 sec
 D12 0.0002000 sec

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

NUC1 13C
 P1 130
 PL1 5.50 usec
 SFO1 100.6237561 MHz

===== CHANNEL f2 =====

CPDPRG2 waltz16
 NUC2 1H
 P2 100.00 usec
 PL2 -3.00 dB
 PL12 16.00 dB
 PL13 16.00 dB
 SFO2 400.1316005 MHz

F2 - Processing parameters

SI 32768
 SF 100.6127280 MHz
 NDM no
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.40

1D NMR D10 parameters

CX 27.00 cm
 F1P 179.250 ppm
 F1 18004.84 Hz
 F2P 3.127 ppm
 F2 314.63 Hz
 PPMCH 6.52307 ppm/cm
 HZCH 656.30402 Hz/cm

Current Data Parameters
NAME fe010472
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 980603
Time 14.13
INSTRUM spect
PROBHD 5 mm QNP 1H
PULPROG zgpg30
TD 46986
SOLVENT CDCl3
NS 782
DS 2
SWH 25125.659 Hz
FIDRES 0.50253 Hz
AQ 0.9949704 sec
RG 32768
DE 19.900 usec
TE 300.0 K
D1 0.0500000 sec
d11 0.0300000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 130 usec
PL1 -5.00 dB
SFO1 100.6273561 MHz

===== CHANNEL f2 =====
CPOPRG2 mltzt16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127250 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
SI 32768
SF 100.6127250 MHz
F1 178.250 ppm
F2 18034.84 Hz
F3 3.127 ppm
F4 314.63 Hz
PRCH 6.52307 ppm/cm
HZCM 655.30402 Hz/cm

Current Data Parameters
NAME F811111111
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20010719
Time 1.01
INSTRUM spect
PROBHD 5 mm DUL 13C
PULPROG zgpg30
TD 45996
SOLVENT CDCl3
NS 512
DS 2
SWH 29125.629 Hz
FIDRES 0.502553 Hz
AQ 0.5949704 sec
RG 6192
RM 19.500 usec
DE 14.540 usec
TE 300.0 K
D1 0.0500000 sec
d11 0.0300000 sec
d12 0.0002000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 5.30 usec
PL1 -6.00 dB
SFO1 100.6237561 MHz
===== CHANNEL f2 =====
COPPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -2.00 dB
PL12 18.00 dB
PL13 18.00 dB
SFO2 400.131605 MHz

F2 - Processing parameters
SI 32768
SF 100.6127250 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 27.00 cm
FIP 199.546 ppm
F1 2007.506 Hz
F2 199.546 ppm
F2 77.40 Hz
PRCH 7.41902 ppm/cm
HZCM 746.44781 Hz/cm

Current Data Parameters
 Name: 1601052
 EXPNO: 2
 PROCNO: 1

F2 - Acquisition Parameters
 Date_: 990810
 Time: 8.48
 INSTRUM: spect
 PROBHD: 5 mm Dual 13
 PULPROG: zgpg30
 TO: 49996
 SOLVENT: CDCl3
 NS: 535
 DS: 2
 SWH: 25125.629 Hz
 FIDRES: 0.506553 Hz
 AQ: 0.5945704 sec
 RG: 32768
 DB: 19.500 usec
 DE: 110.00 usec
 TE: 300.2 K
 DT: 0.5000000 sec
 d11: 0.0300000 sec
 d12: 0.0002000 sec

===== CHANNEL f1 =====
 NUC1: 13C
 P1: 5.50 usec
 PL1: -6.00 dB
 SFO1: 100.6237561 MHz

===== CHANNEL f2 =====
 CDPFG2: wa11z16
 NUC2: 1H
 PCPD2: 100.00 usec
 PL2: -3.00 dB
 PL12: 16.00 dB
 PL13: 18.00 dB
 SFO2: 400.1315005 MHz

F2 - Processing parameters
 SF: 32768
 WDM: no
 SSF: 0
 LB: 0.00 Hz
 GB: 0
 PC: 1.40

10 NMR D10t parameters
 CX: 27.00 cm
 F1P: 234.462 ppm
 F1: 23589.88 Hz
 F2P: -15.264 ppm
 F2: -1535.75 Hz
 PRICH: 9.24912 ppm/cm
 HZCM: 530.57892 Hz/cm

Current Data Parameters

NAME febr
EXNO 2
PROCNO 1

F2 - Acquisition Parameters

Date 991014
Time 9.48
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 49996
SOLVENT CDCl3
NS 377
DS 2
SH 25125.629 Hz
FIDRES 0.502553 Hz
AQ 0.5949704 sec
RG 32768
DM 19.500 usec
DE 10.50 usec
TE 300.0 K
D1 0.5000000 sec
d11 0.0300000 sec
d12 0.0002000 sec

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

NUC1 13C
P1 5.50 usec
PL1 -8.00 dB
SFO1 100.627551 MHz

===== CHANNEL f2 =====

CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 18.00 dB
SFO2 400.1316005 MHz

F2 - Processing parameters

SI 32768
SF 100.6127290 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 27.00 cm
F1P 179.250 ppm
F1 18034.84 Hz
F2P 3.127 ppm
F2 314.63 Hz
PRNUCH 6.52307 ppm/cm
HZCM 656.30402 Hz/cm

Current Data Parameters
NAME F00060
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
File 20011212

Time 11.12
INSTRUM spect
PROBHD 5 mm QNP 13C
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 407
DS 2
SWH 25125.629 Hz
FIDRES 0.502553 Hz
AQ 0.9949704 sec
RG 32768
DM 19.900 usec
DE 10.50 usec
TE 300.0 K
D1 1.00000000 sec
d11 0.03000000 sec
d12 0.00020000 sec

===== CHANNEL f1 =====
NUC1 13C
P1 13.00 usec
PC1 0.00 dB
SF01 100.6237561 MHz

===== CHANNEL f2 =====
CPDPRG2 MARIETTA
NUC2 1H
PCPD2 100.00 usec
PL2 -3.00 dB
PL12 16.00 dB
PL13 18.00 dB
SF02 400.1315005 MHz

F2 - Processing parameters
SI 32768
SF 100.6127290 MHz
RG 32768
EX 0
GB 1.00 Hz
GB 0
PC 1.40

10 NMR plot parameters
CX 27.00 cm
F1P 234.462 ppm
F1 230861.88 Hz
F2P -15.264 ppm
F2 -1535.75 Hz
PPHOM 9.24912 ppm/cm
HZOM 930.57852 Hz/cm