Supporting Information

Pd-Catalyzed Sulfinylzincation of Activated Alkynes Using 1-Alkynyl Sulfoxides as a Sulfinyl Source

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¹ H NMR spectra of compound 11j	S54
¹ H NMR spectra of compound 11k	S55
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Date : Wed Feb 21 19:38:09 2001

FileName : seizo4.nmdata
Comment :
SlicerHistory :
EXMODE : non

POINT 16384 points
SAMPD 16384 points
FREQD 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INTVL 100.0 usec
TIMES 32 times
DUMMY 1 times

PD 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PWL 2.63 usec

OBNUC ¹H
OBFRQ 500.00 MHz
OBSET 162167.63 Hz
RGAIN 23

SCANS 32 times
SLVNT CDCl₃
SPINNT 11 Hz
TEMP 27.2 C

1H Line

Date : Wed Jan 10 10:01:51 2001

FileName : se1202.nmdata
Comment : 1H Line
SliceHistory : non

POINT 18384 points
SAMPD 18384 points
FREQ 10000.0 Hz
FILTIR 5000 Hz
DELT 40.0 usec
DEAD 59.7 usec
INTVL 100.0 usec
TIMES 32 times
DUMY 1 times
PU 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PFI 2.63 usec
ORNUC 1H
ORFRQ 500.00 MHz
ORSET 162167.63 Hz
RGAIN 20
SCANS 32 times
SLVNT CDCL3
SPINNT 14 Hz
TEMP 25.0 C

Date : Sat Mar 3 09:36:54 2001

File Name : LoadingFID.mdata

Comment : 1H Line

SliceHistory : non

EXMODE : non

POINT 16384 points
 SAMP 16384 points
 FREQ 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEACT 58.7 usec
 INTVL 100.0 usec
 TIMES 16 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INVT 1000.0000 msec
 RESOL 0.61 Hz
 PWT 2.63 usec
 1H 500.00 MHz
 DBFRQ 162167.63 Hz
 DSSET 21
 RGA IN
 SCANS 16 times
 SLVNT CDCL3
 SPINNT 14 Hz
 TEMP 27.7 C

Date : Wed Mar 6 18:23:15 2002
 File Name : LoadingFID.mdata
 Comment : 1H Line
 Slice History : non
 EXMODE : non

POINT 16384 points
 SAMPO 16384 points
 FREGU 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEATH 58.7 usec
 INTVL 100.0 usec
 TIMES 32 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INIWT 1000.0000 msec
 RESOL 0.61 Hz
 PWT 2.63 usec
 OBNUC 1H
 OBFRG 500.00 MHz
 OBSET 162167.63 Hz
 RGAIN 19
 SCANS 32 times
 SLVNT CDCL3
 SPINNING 12 Hz
 TEMP 25.6 C

Date : Fri Oct 19 16:51:57 2001

```

: fileName
: iH Line
: Comment
: SliceHistory
: EXMODE
: non
: LoadingFID.nmdata

```

POINT	16384 points	:
GAMPO	16384 points	:
FREQU	10000.0 Hz	:
FILTR	5000 Hz	:
DELAY	40.0 usec	:
DEADT	58.7 usec	:
INITVL	100.0 usec	:
TIMES	32 times	:
CLUMPY	1 times	:
PD	5.3616 sec	:
ACQTIM	1638.3999 msec	:
PREPDL	0.01000 msec	:
INITMT	1000.0000 msec	:
RESOL	0.61 Hz	:
PW1	2.63 usec	:
DBNUC	1H	:
DBFRQ	500.00 MHz	:
DBSET	162167.53 Hz	:
RGAIN	18	:
SCANS	32 times	:
SVLNT	COOL3	:
SPINNING		:
TEMP	12 Hz	:
	26.4 C	:

Date : Mon Nov 18 20:14:48 2002
 File Name : LoadingFID.mdata
 Comment : 1H Line
 Slice History : non
 EXMODE :
 POINT : 16384 points
 SAMPLE : 16384 points
 FREQ : 10000.0 Hz
 FID : 5000 Hz
 DELAY : 40.0 usec
 DECT : 58.7 usec
 INVL : 100.0 usec
 TIMES : 16 times
 DUMMY : 1 times
 PD : 5.3616 sec
 ACQTM : 1638.3999 msec
 PREDL : 0.01000 msec
 ININT : 1000.0000 msec
 RESOL : 0.61 Hz
 PW1 : 2.63 usec
 DBNUC : 1H
 DBPRG : 500.00 MHz
 DBSET : 162167.63 Hz
 RGAIN : 17
 SCANS : 16 times
 SLVNT : CDCL3
 SPINNING : 14 Hz
 TEMP : 25.9 C

1H Line

Date : Fri Oct 5 19:05:05 2000

Filename : seizo5.mdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE :

POINT 16384 points
 SAMPO 16384 points
 FREGU 10000.0 Hz
 FLTR 5000 Hz
 DELAY 40.0 usec
 DEADT 58.7 usec
 INVT 100.0 usec
 TIMES 16 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INVT 1000.0000 msec
 RESOL 0.61 Hz
 PWT 2.63 usec
 1H 500.00 MHz
 QNUC 162167.63 Hz
 OBSF 21
 RGAIN 16 times
 SCANS : COOL3
 SLWNT 14 Hz
 SPINNING 23.5 C
 TEMP :

Date : Fri Jan 24 21:10:34 2003
 FileName : LoadingID.mdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE : non
 POINT : 16384 points
 SAMPO : 16384 points
 FREQU : 10000.0 Hz
 FILTR : 5000 Hz
 DELAY : 40.0 usec
 DEADT : 58.7 usec
 INYLL : 100.0 usec
 TIMES : 16 times
 DUMMY : 1 times
 PD : 5.3616 sec
 ACQTM : 1638.3999 msec
 PREDL : 0.01000 msec
 INYLT : 1000.0000 msec
 RESOL : 0.61 Hz
 PW1 : 2.63 usec
 DBNUC : 1H
 OBFRQ : 500.00 MHz
 OBSET : 162167.63 Hz
 RGAIN : 27
 SCANS : 16 times
 SLVNT : CDCL3
 SPINNING : 13 Hz
 TEMP : 26.2 C

Date : Fri Mar 1 10:48:45 2002

File Name : LoadingID.mdata
 Comment : 1H Line
 Slice History : non

EXMODE

POINT 16384 points
 SAMPD 16384 points
 FREQ 10000.0 Hz
 FIDTR 5000 Hz
 DELAY 40.0 usec
 DEADT 57.2 usec
 INTVL 100.0 usec
 TIMES 64 times
 DUMNT 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INIWT 1000.0000 msec
 RESOL 0.51 Hz
 PUL 5.50 usec
 OBNUC 1H
 OBFRQ 500.00 MHz
 OBSET 162167.63 Hz
 RGAIN 18

SCANS 64 times

SLVNT CDCL3

SPINNT 10 Hz

TEMP 28.8 C

Date : Fri Mar 1 11:20:47 2002
 File Name : LoadingFID.mdata
 Comment : 1H Line
 EXMODE : non

POINT 15384 points
 SAMPD 15384 points
 FREQ 10000.0 Hz
 DELAY 5000 Hz
 DEADT 40.0 usec
 57.2 usec
 100.0 usec
 128 times
 TIMES 1 times
 DUMMY 5.3616 sec
 PG 1638.3999 msec
 ACQTM 0.01000 msec
 PREDL 1000.0000 msec
 INTWT 0.61 Hz
 RESOL 5.50 usec
 PH1 1H 500.00 MHz
 OBNUC 162167.63 Hz
 OBFRQ 16
 RGAIN 128 times

SCANS : 128 times
 SLVNT : CDCL3
 SPINNING : 11 Hz
 TEMP : 29.1 C

```

: LoadingFID.mdata
: 1H Line
:
: SliceHistory
: EXMODE
: non

```

POINT	16384 points
SAMPD	16384 points
SAMPF	10000.0 Hz
FREQU	5000 Hz
FTLFR	40.0 usec
DELAY	58.7 usec
DEADT	100.0 usec
INTVL	32 times
TIMES	1 times
DUMMY	5 3616 sec
PD	1538.3999 msec
ACQTN	0.01000 msec
PREDL	1000.0000 msec
INTW	0.61 Hz
RESOL	2.63 usec
PM1	1H
OBNUC	500.00 MHz
OBFRQ	162167.63 Hz
OBSET	19
RGAIN	32 times
SCANS	
SVLNT	CDCL3
SPINNING	11 Hz
TEMP	28.9 C

Date : Wed Dec 12 12:41:46 2001

File Name : LoadingF10.nmdata
Comment : 1H Line
S/iceHistory : non
EXMODE :POINT 16384 points
SAMP0 16384 points
FREQ0 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INTVL 100.0 usec
TIMES 64 times
DUMMY 1 times
PD 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PUL 2.63 usec
CNUC 1H
OBF0 500.00 MHz
OBSF 162167.63 Hz
RGAIN 17

SCANS : 64 times

SLVNT : CDCl3

SPINNING : 12 Hz
TEMP : 28.3 C

1H Line

Date : Fri Dec 13 18:51:55 2002
 File Name : Loading\111.mfdata
 Comment : 1H Line
 Slice History : non
 EXMODE :
 POINT : 16384 points
 SAMPD : 16384 points
 FREQ : 10000.0 Hz
 FILTR : 5000 Hz
 DELAY : 40.0 usec
 DEATH : 58.7 usec
 INTVL : 100.0 usec
 TIMES : 16 times
 DUMMY : 1 times
 PD : 5.3616 sec
 ACQTM : 1638.3999 msec
 PREDL : 0.01000 msec
 INJMT : 1000.0000 msec
 RESOL : 0.61 Hz
 PW1 : 2.63 usec
 1H : 500.00 MHz
 DBRG : 162167.63 Hz
 DBSET : 25
 RGAIN : 16 times
 SCANS :
 SWHT : CDCL3
 SPINNING : 13 Hz
 TEMP : 25.8 C

Date : Fri Apr 6 17:35:31 2001

FileName : se1201.mdata
Comment :
SliceHistory :
EXMODE : non

POINT 16384 points
SAMPD 16384 points
FREQD 10000.0 Hz
FILTIR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INVTL 100.0 usec
TIMES 32 times
DUMMT 1 times
PD 5.3616 sec
ACQTM 1638.3999 msec
PREOL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PWT 2.63 usec
DNUC 1H
ORFRO 500.00 MHz
ORSET 162167.63 Hz
RGAIN 17
SCANS 32 times
SLVNT CDCL3
SPINNING 12 Hz
TEMP 24.7 C

0.049
-0.031

7.498
7.496
7.494
7.482
7.481
7.472
7.443
7.442
7.314
7.312
7.298
7.297
7.260
6.712
6.663

2.381

3.741

3.74

3.67

3.28

2.00

1.14

0.04

ppm

Date : Wed Jun 20 20:21:24 2001
 File Name : LoadingFID.mdata
 Comment : 1H Line
 Slice History : non
 EXMODE : non
 POINT : 16384 points
 SAMPD : 16384 points
 FREQ : 10000.0 Hz
 FILTR : 5000 Hz
 DELAY : 40.0 usec
 DEATH : 58.7 usec
 INTR : 100.0 usec
 TIMES : 32 times
 DUMMY : 1 times
 PD : 5.3616 sec
 ACQTM : 1638.3989 msec
 PREDL : 0.01000 msec
 INTR : 1000.0000 msec
 RESOL : 0.51 Hz
 PW1 : 2.63 usec
 1H : 500.00 MHz
 OBSFQ : 162167.63 Hz
 OBSRT : 17
 RGAIN : 32 times
 SCANS : 32 times
 SLVNT : CDCL3
 SPINNT : 11 Hz
 TEMP : 23.0 C

Date : Fri Jul 5 18:41:09 2001

FileName : Loadingf10.mdata

Comment : 1H Line

SliceHistory

EXMODE : non

POINT 16384 points
SAMPD 16384 points
FREQD 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INTVL 100.0 usec
TIMES 32 times
DUMMY 1 times
PD 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
INWIT 1000.0000 msec
RESOL 0.61 Hz
PWI 2.63 usec
OBNUC 1H
OBFRQ 500.00 MHz
ORSET 162167.63 Hz
RGAIN 17
SCANS 32 times
SLVNT CDCL3
SPINNT 13 Hz
TEMP 23.3 C

1H Line

Date : Fri Sep 7 19:28:42 2001

FileName : LoadingFID.nmdata
 Comment : 1H Line
 SliceHistory : non

POINT 16384 points
 SAMPD 16384 points
 FREQD 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEATH 58.7 usec
 INTVL 100.0 usec
 TIMES 32 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 ININT 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 CBNUC 1H
 CBPRQ 500.00 MHz
 CBSET 162167.63 Hz
 RGAIN 22

SCANS 32 times

SLVNT CDCl3
 SPINNT 14 Hz
 TEMPT 24.1 C

Date : Wed Jun 27 20:26:45 2001

```

: LoadingID.nmdata
: 1H Line
:
: SliceHistory
: EXMODE
: non

```

POINT	16384 points
SAMPO	16384 points
FREQ	10000.0 Hz
FILTR	5000 Hz
DELAY	40.0 usec
DEAOT	58.7 usec
INTVL	100.0 usec
TIMES	32 times
DUMMY	1 times
PD	5 3616 sec
ACQTM	1638.3999 msec
PREDL	0.01000 msec
ININT	1000.0000 msec
RESOL	0.61 Hz
PW1	2.63 usec
OBNUC	1H
OBFRQ	500.00 MHz
OBSET	162167.63 Hz
RGAIN	15
SCANS	32 times
SLWNT	CDCL3
SPINNING	
TEMP	13 Hz
	22.3 C

Date : Wed Feb 27 18:24:37 2002

Filename : LoadingFD.nmdata

Comment : 1H Line

EXMODE : non

POINT 16384 points
 SAMPQ 16384 points
 FREQ0 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEACT 58.7 usec
 INTRVL 100.0 usec
 TIMES 32 times
 DUMY 1 times
 PD 5.3616 sec
 ACQTH 1638.3999 msec
 PRECL 0.01000 msec
 INTRW 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 1H
 500.00 MHz
 162167.63 Hz
 23
 SCANS 32 times
 SLVNT CDCL3
 SPINNING 13 Hz
 TEMP 29.2 C

Date : Sun Jul 22 22:42:25 2001

Filename : se1202.nmdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQU 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEATH 58.7 usec
 INTVL 100.0 usec
 TIMES 64 times
 DUMMY 1 times
 PD 5.3615 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INIWT 1000.0000 msec
 RESOL 0.61 Hz
 PNI 2.63 usec
 OBNUC 1H 500.00 MHz
 OBFREQ 162167.63 Hz
 OBSSET 17
 RGAIN
 SCANS 64 times
 SLVNT CDCL3
 SPINNT 12 Hz
 TEMPR 23.4 C

Date : Fri Oct 5 15:53:45 2001

FileName : LoadingFID.mdata
 Comment : 1H Line
 SliceHistory :
 EXMODE : non

POINT 16384 points
 SAMPD 16384 points
 FREQU 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEADT 56.7 usec
 INVTL 100.0 usec
 TIMES 64 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 ININT 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 1H 500.00 MHz
 OBFRQ 162167.63 Hz
 OBSET 18
 RGAIN 64 times
 SCANS 64 times
 SLVNT CDCl3
 SPINNT 13 Hz
 TEMP 23.2 C

Date : Fri Sep 7 18:24:04 2001

File Name : LoadingFID.nmdata
Comment : 1H Line
Spectral History : non
EXMODE :POINT 16384 points
SAMPD 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DELOT 58.7 usec
INTVL 100.0 usec
TIMES 32 times
DUMMY 1 times
PD 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.51 Hz
PWT 2.63 usec
DBNUC 1H
DBFRO 500.00 MHz
DBSET 162167.63 Hz
RGAIN 23
SCANS 32 times
SLVNT CDCL3
SPINNING 11 Hz
TEMP 22.4 C

Date : Fri Mar 1 20:12:53 2002

File Name : LoadingfID.nmdata

Comment : 1H Line

Slc:History : non

EXMODE

POINT 16384 points

SAMPD 16384 points

FREQD 10000.0 Hz

FILTR 5000 Hz

DEADT 40.0 usec

BEADT 57.2 usec

INVL -100.0 usec

TIMES 32 times

DUMMY 1 times

PD 5.3616 sec

ACQTM 1638.3959 msec

PREDL 0.01000 msec

ININT 1000.0000 msec

RESOL 0.61 Hz

PM1 5.50 usec

ORNUC 1H

ORFRO 500.00 MHz

ORSET 162167.63 Hz

RGAIN 17

SCANS 32 times

SLVNT CDCL3

SPINNING 12 Hz

TEMP 29.5 C

Date : Wed Jan 23 18:18:09 2002

FileName : .LoadingFID.nmdata
Comment : 1H Line
SliceHistory : non
EXMODE :POINT 16384 points
SAMPD 16384 points
FREQU 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INVTL 100.0 usec
TIMES 32 times
DUMMY 1 times
PD 5.3516 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
INVT 1000.0000 msec
RESOL 0.61 Hz
PWI 2.63 usec
1H 500.00 MHz
162167.63 Hz
19
SCANS 32 times
SLVNT CDCL3
SPINNT 12 Hz
TEMP 25.7 C

1H Line

Date : Sat Mar 1 15:40:08 2003

Filename : LoadingFID.mdata

Comment : 1H Line

EXMODE : non

POINT 16384 points
 SAMPD 16384 points
 FREQD 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEJOT 58.7 usec
 INYTL 100.0 usec
 TIMES 16 times
 DUMMY 1 times
 P0 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INYTL 1000.0000 msec
 RESOL 0.61 Hz
 PWT 2.63 usec
 1H 500.00 MHz
 OBSFQ 162167.63 Hz
 RGAIN 18
 SCANS 16 times
 SLVNT CDCL3
 SPINNT 12 Hz
 TEMP 26.2 C

Date : Wed Jan 23 18: 04: 51 2002

FileName : seizure2.nddata
Comment :
SliceHistory :
EXMODE : non

POINT 16384 points
SAMPD 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INSTR 100.0 usec
TIMES 32 times
DUMY 1 times
PD 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PFI 2.63 usec
ORNUC 1H
OBFRQ 500.00 MHz
OBSET 162167.63 Hz
RGAIN 20
SCANS 32 times
SLVNT CDCl3
SPINNT 13 Hz
TEMP 26.1 C

Date : Wed Jan 30 13:03:15 2002

File Name : LoadingFID.nmdata
Comment : 1H Line
Slice History :
EXMODE : nonPOINT : 16384 points
SAMPD : 16384 points
FREQ : 10000.0 Hz
FILTR : 5000 Hz
DELAY : 40.0 usec
DEADT : 58.7 usec
INVT : 100.0 usec
TIMES : 32 times
DUMY : 1 times
PD : 5.3616 sec
ACQTM : 1638.3998 msec
PREDL : 0.01000 msec
INVT : 1000.0000 msec
RESOL : 0.61 Hz
PWI : 2.63 usec1H : 500.00 MHz
162157.63 Hz
17

SCANS : 32 times

SOLV : CDCl₃SPINNING : 12 Hz
TEMP : 26.1 °C8.240
8.235
8.230
8.220
8.216
8.211
7.825
7.821
7.820
7.816
7.806
7.803
7.798
7.395
7.389
7.385
7.377
7.371
7.367
7.362
7.358
7.351
7.349
7.339
7.335
7.279
7.274
7.271
7.263
7.260
6.813
6.809
6.808
6.804
5.139
5.136
5.108
5.105
4.580
4.579
4.557
4.407
4.383
4.278
4.277
4.274
4.247
4.242
3.771

0.000

D:\SY-005 H2.als
 COMNT SY-005 H
 DATIM Wed Feb 27 19:53:24 2002
 OBNUC 1H
 EXMOD NON
 OBFRQ 300.40 MHz
 OBSET 130.00 KHz
 OBFIN 1150.0 Hz
 POINT 32768
 FREQU 6013.2 Hz
 SCANS 32
 ACQTM 5.449 sec
 PD 1.551 sec
 PW1 5.8 us
 IRNUC 1H
 CTEMP 25.1 C
 SLVNT CDCL3
 EXREF 0.00 ppm
 BF 0.12 Hz
 RGAIN 19

120

Date : Fri Jul 12 19:59:36 2002

File Name : se1203.nmdata
Comment :
Slice History : non
EXMODE :

POINT 16384 points
SAMPD 16384 points
FREQD 10000.0 Hz
FILTR 5000 Hz
DELTA 40.0 usec
DEADT 58.7 usec
INVTL 100.0 usec
TIMES 16 times
DUMMY 1 times
PD 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
INVT 1000.0000 msec
RESOL 0.61 Hz
PWI 2.63 usec
1H 500.00 MHz
162167.63 Hz
21
SCANS 16 times
SLVNT CDCl3
SPINNT 14 Hz
TEMP 22.4 C

Date : Fri Feb 22 18:20:23 2002

Filename : LoadingID.mdata

Comment : 1H Line

SliceHistory

EXMODE non

POINT 16384 points
SAMP 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INYL 100.0 usec
TIMES 32 times
DUMMY 1 times
PO 5.3616 sec
ACQIM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PWI 2.63 usec
1H
OBSJC 500.00 MHz
OBSFQ 162167.83 Hz
OBSST 17
RGAIN
SCANS 32 times
SLVNT CDCl3
SPINT 10 Hz
TEMP 23.9 C

0.072
0.000

2.388

2.984

3.119

3.961

3.965

3.990

3.994

4.294

4.317

4.447

4.470

4.848

4.851

4.876

4.879

7.151

7.152

7.153

7.155

7.156

7.157

7.225

7.233

7.238

7.241

7.249

7.265

7.277

7.284

7.291

7.297

7.305

7.308

7.313

7.324

7.328

7.341

7.345

7.505

7.522

1H Line

Date : Wed Jul 31 18:53:48 2002

File Name : LoadingFD.naddata

Comment : 1H Line

SliceHistory : non

EXMODE :

POINT 16384 points

SAMPD 16384 points

FREQD 10000.0 Hz

FILTR 5000 Hz

DEAD 40.0 usec

INTVL 58.7 usec

TIMES 32 times

DUMMY 1 times

PD 5.3616 sec

ACQTH 1638.3999 msec

PREDL 0.01000 msec

ININT 1000.0000 msec

RESOL 0.61 Hz

PM1 2.63 usec

ORNUC 1H

ORPRO 500.00 MHz

OBSET 162167.63 Hz

RGAIN 23

SCANS 32 times

SLVNT CDCl3

SPINNT 17 Hz

TEMP 24.5 C

0.000

3.850
3.878
4.293
4.316
4.433
4.458

6.366
7.175
7.190
7.208
7.224
7.247
7.261
7.276
7.289
7.300
7.405
7.420

2.341

2.99

1.00

0.95

2.05

1.00

10.30

12r

ppm

0

2

4

6

8

10

Date : Wed Feb 27 17: 44: 03 2002
File Name : .LoadingFID.nmdata
Comment : 1H Line
Slice History : non
EXMODE : non

POINT 16384 points
SAMPD 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INVTL 100.0 usec
TIMES 32 times
DUMMY 1 times
PD 5.3616 sec
ACQIM 1638.3599 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PW1 2.63 usec
OBNUC 1H
OBFRQ 500.00 MHz
OBSET 162167.63 Hz
RGAIN 19

SCANS 32 times
SLVNT CDCl3
SPINNING 14 Hz
TEMP 29.1 C

DFILE COMNT DATIM OBNUC EXMOD OBFRQ OBSET OBFIN POINT FREQU SCANS ACQTM PD PW1 IRNUC CTEMP SLVNT EXREF BF RGAIN

Days after anthesis

Grains per spike

0.010
0.028

0.852

9.4023

2.395

3.817
4.318
4.319
4.325
4.379
4.385
4.386
4.752
4.759
4.760
4.811
4.812
4.819

6.456
6.456
6.463
6.464
6.470
6.471

7.260
7.273
7.300
7.302
7.689
7.716

1H Line

16

Date : Wed Jan 30 17:17:54 2002

FileName : se101.nmdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE :
 POINT : 16384 points
 SAMPO : 1638

1H Line

Date : Wed Feb 27 19:27:41 2002

File Name : scizol.mdata
 Comment : 1H Line
 Slice History : non
 EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQ 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEAT 58.7 usec
 INTR 100.0 usec
 TIMES 16 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 ININT 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 1H 500.00 MHz
 OBFRQ 162167.63 Hz
 RBSET 24
 RGAIN 16 times
 SCANS :
 SLVNT CDCl3
 SPINNING 12 Hz
 TEMP 29.2 C

Date : Wed Jan 22 20:00:14 2003

FileName : .LoadingFID.nmdata
Comment : 1H Line
SliceHistory :
ExMODE : nonPOINT : 16384 points
SAMPD : 16384 points
FREQD : 10000.0 Hz
FILTR : 5000 Hz
DELAY : 40.0 usec
DEADT : 58.7 usec
INVTL : 100.0 usec
TIMES : 16 times
DUMMY : 1 times
PD : 5.3616 sec
ACQTM : 1638.3999 msec
PREDL : 0.01000 msec
ININT : 1000.0000 msec
RESOL : 0.61 Hz
PWL : 2.63 usec
OBNUC : 1H
OBFRQ : 500.00 MHz
OBSET : 162167.63 Hz
RGAIN : 18
SCANS : 16 times
SLVNT : CDCL3
SPINNT : 13 Hz
TEMP : 25.6 C

6.32

9.28

3.11

2.00

2.00

2.02

2.05

 $\text{C}_6\text{H}_5\text{C}\equiv\text{C}\text{C}(\text{O})\text{C}(\text{O})\text{C}_6\text{H}_5$
TBSO 1b

ppm

DFILE COMNT DATIM OBNUC EXMOD OBFRQ OBSET OBFIN POINT FREQU SCANS ACQTM PD PW1 IRNUC CTEMP SLVNT EXREF BF RGAIN

D:\NMR\Ac-2-genryo\Ac-2-genryo.a.
Ac-2-genryo
Tue Jan 23 18:47:15 2001

1H	300.40 MHz
	130.00 KHz
	1150.0 Hz
	32768
	6013.2 Hz
	16
	5.449 sec
	1.551 sec
	5.8 us
27.9 C	
CDCL3	
	0.00 ppm
	0.12 Hz
	19

FileName
Comment
SliceHistory
EXMODE

POINT	16384 points
SAMPD	16384 points
FREQU	10000.0 Hz
FILTR	5000 Hz
DELAY	40.0 usec
DEADT	58.7 usec
INTVL	100.0 usec
TIMES	32 times
DUMMP	1 times
PO	5.3616 sec
ACQIM	1638.3999 msec
PREDL	0.01000 msec
INININ	1000.0000 msec
RESOL	0.61 Hz
PHI	2.63 usec
ORNIC	1H
CHBERG	500.00 MHz
OFFSET	162167.63 Hz
RGAIN	24
SCANS	32 times
SOLVENT	CDCL3
SPINNING	13 Hz
TEMP	22.1 C

1d
 $(\gamma_4-S(O)Tol$

TH Line

DFILE: \DATE\00.12\JM-17\AUT
 COM\990727-1
 DATE: Mon Dec 11 18:28:01 2000
 OBNUCH
 EXMODON
 OBFREQ 300.40 MHz
 OBSET 130.00 KHz
 OBFIN 1150.0 Hz
 POINT 32768
 FREQU 6020.4 Hz
 SCANS 64
 ACQTM 5.443 sec
 PD 1.554 sec
 PW1 5.3 us
 IRNUCH
 CTEMP 23.1 c
 SLVNTCDCL3
 EXREF 0.00 ppm
 BF 0.12 Hz
 RGAIN 10

$t\text{-Bu-S(O)Tol}$
 1f

C:\WINNR95\COMMON\DEFAULT.ALS

DEFILE
COMNT
DATIM
OBRUC
EXMOD
OBFRO
OBFRO
OBFRO
OBFRO
POINT
FREQ
SCANS
ACQTM
PD
PW1
IRNUC
CTEMP
SLVNT
EXREF
BF
RGAIN

Sun Jan 06 19:35:54 2002

1H
NON
300.40 MHz
130.00 KHz
1150.0 Hz
32768
6013.2 Hz
32
5.449 sec
1.551 sec
5.8 us
23.9 c
CDCL3
0.00 ppm
0.12 Hz
14

(¹/₂)²-S(O)Tol
TBDPSO 1g

Date : Wed Jan 23 18:32:23 2002
 FileName : .LoadingID.nmdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE : non

POINT : 16384 points
 SAMPO : 16384 points
 FREQ : 10000.0 Hz
 FILTR : 5000 Hz
 DELAY : 40.0 usec
 DECT : 58.7 usec
 INTVL : 100.0 usec
 TIMES : 64 times
 DUMMY : 1 times
 PD : 5.3615 sec
 ACQTM : 1638.3999 msec
 PREDL : 0.01000 msec
 INIWT : 1000.0000 msec
 RESOL : 0.61 Hz
 PWT : 2.63 usec
 1H : 500.00 MHz
 DBFRC : 162167.63 Hz
 DBSET : 17
 RGAIN : 17
 SCANS : 64 times
 SLVNT : CDCL3
 SPINNT : 11 Hz
 TEMP : 25.1 C

1H Line

Date : Wed Mar 5 15:34:49 2003

File Name : LoadingFID.mdata
 Comment : 1H Line
 Slice History : non
 EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQD 10000.0 Hz
 DELAY 5000 Hz
 DEADT 40.0 usec
 INVTL 58.7 usec
 TIMES 100.0 usec
 DUMPT 16 times
 PD 1 times
 ACQTM 5.3616 sec
 PREDL 1638.3959 msec
 INJMT 0.01000 msec
 RESOL 1000.0000 msec
 PWT 0.61 Hz
 DBNUC 2.63 usec
 OBSFO 1H
 OBSFQ 500.00 MHz
 OBSFT 162167.63 Hz
 RGAIN 15
 SCANS 16 times
 SLVNT CDCL3
 SPINNING 14 Hz
 TEMP 26.0 C

11

1H Line

Date : Wed Jan 23 17:55:17 2002

FileName : LoadingFID.ncdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQU 10000.0 Hz
 FLTR 5000 Hz
 DELAY 40.0 usec
 DEAT 58.7 usec
 INVT 100.0 usec
 TIMES 32 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1538.3999 msec
 PREDL 0.01000 msec
 ININT 1000.0000 msec
 RESOL 0.61 Hz
 PH1 2.63 usec
 1H 500.00 MHz
 OBSRQ 162167.63 Hz
 OBSRT 19
 REGAIN
 SCANS 32 times
 SLVNT CDCl3
 SPINNT 11 Hz
 TEM 25.2 C

1j

Date : Wed Jan 23 18:45:51 2002

File Name : LoadingFID.nmdata
Comment : 1H Line
Spectral History : non
EXMODE :POINT 16384 points
SAMPD 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELTA 40.0 usec
DEAD 58.7 usec
INSTR 100.0 usec
TIMES 64 times
DUMMY 1 times
PD 5.3616 sec
ACQTM 1638.3599 msec
PREDL 0.01000 msec
INSTR 1000.0000 msec
RESOL 0.61 Hz
PWI 2.63 usec
1H 500.00 MHz
162167.63 Hz
1B
SCANS 64 times
SOLVENT CDCL3
SPINNING 12 Hz
TEMP 26.0 C

1K

DFILE D:\SY-004 H.als
COMNT SY-004 H
DATIM Tue Feb 26 13:05:40 2002
OBNUC 1H
EXMOD NON
OBFRQ 300.40 MHz
OBSET 130.00 KHz
OBFIN 1150.0 Hz
POINT 32768
FREQU 6013.2 Hz
SCANS 16
ACQTM 5.449 sec
PD 1.551 sec
PW1 5.8 us
IRNUC 1H
CTEMP 25.1 c
SLVNT CDCL3
EXREF 0.00 ppm
BF 1.20 Hz
RGAIN 10

t-Bu-S(O)Me

1H Line

Date : Fri Jul 12 10:54:51 2002
LoadingID: nadata
1H Line
non
POINT 16384 points
SAMP 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 57.2 usec
INTEL 100.0 usec
TIMES 16 times
DUMMY 1 times
PC 5.3616 sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PWI 5.50 usec
1H 500.00 MHz
OBFRQ 162167.63 Hz
OBSET 14
RGAIN 16 times
SCANS 16 times
SLVNT CDCL3
SPINNT 11 Hz
TEMP 21.8 C

7.278
3.198
3.185
3.183
3.173
3.167
3.165
3.159
3.156
3.153
3.150
3.142
3.136
3.135
3.133
3.126
3.113
3.111
3.100
2.478
2.474
2.465
2.460
2.446
2.444
2.439
2.438
2.432
2.431
2.425
2.421
2.419
2.416
2.413
2.411
2.406
2.402
2.395
2.391
2.384
2.376
2.376
2.376
2.361
2.348
2.336
2.331
2.313
2.308
2.301
2.298
2.293
2.209
2.205
2.201
2.198
2.181
2.171
2.165
2.165
2.154
2.150
2.140
2.130
2.122
2.118
2.109
2.106
2.095
2.093
2.081
2.078
2.071
2.065
2.065
2.054
2.050
2.040
2.035
2.031
2.028
2.022
1.300

9.01

3.02
2.00
2.02

t-Bu-S(O)(CH₂)₃C≡CH
1m

10 8 6 4 2 0 ppm

Date : Wed Oct 3 19:59:53 2001
 File Name : LoadingFID.nmdata
 Comment : 1H Line
 Slice History : non
 EXMODE : non

POINT 16384 points
 SAMPD 16384 points
 FREQ 10000.0 Hz
 DELAY 5000 Hz
 DEAD 40.0 usec
 INVT 58.7 usec
 TIMES 100.0 usec
 DUMMY 32 times
 PD 1 times
 ACQTM 5.3616 sec
 PREDL 1638.3999 msec
 INVT 0.01000 msec
 RESOL 1000.0000 msec
 PW1 0.61 Hz
 OBNUC 1H
 OBFRQ 500.00 MHz
 OBSET 162167.63 Hz
 RGAIN 1.4

SCANS 32 times
 SLVNT CDCL3
 SPINNING 14 Hz
 TEMP 22.9 C

Date : Fri Aug 10 18:05:55 2001

FileName : LoadingFID.mdata

Comment : 1H Line

SliceHistory : non

EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQU 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEADT 58.7 usec
 INTEL 100.0 usec
 TIMES 32 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 ININT 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 OBSNUC 1H
 OBSFREQ 500.00 MHz
 OBSSET 162167.63 Hz
 RGAIN 17
 SCANS 32 times
 SLVNT CDCL3
 SPINNT 10 Hz
 TEMP 22.9 C

1H Line

Date : Wed Oct 3 13:14:51 2001

FileName : LoadingFID.nmdata
 Comment : 1H Line
 SliceHistory :
 EXMODE : non

POINT 16384 points
 SAMPD 16384 points
 FREQD 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEADT 58.7 usec
 INTVL 100.0 usec
 TIMES 64 times
 DUMMY 1 times
 PD 5.3615 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INJMT 1000.0000 msec
 RESOL 0.61 Hz
 PWT 2.63 usec
 DBNUC 1H 500.00 MHz
 OBFRQ 162167.63 Hz
 OBSET 17
 RGAIN 64 times
 SCANS 64 times
 SLVNT CDCL3
 SPINNING 8 Hz
 TEMP 22.9 C

111

Date : Fri Sep 7 19:06:09 2001

FileName

seizo3.nmdata

Comment

SliceHistory

EXMODE

non

POINT 16384 points
SAMPD 16384 points
FREQ 10000.0 Hz
FILTR 5000 Hz
DELAY 40.0 usec
DEADT 58.7 usec
INVT 100.0 usec
TIMES 32 times
DUMMY 1 times
PD 5.3616-sec
ACQTM 1638.3999 msec
PREDL 0.01000 msec
ININT 1000.0000 msec
RESOL 0.61 Hz
PWL 2.63 usec
OBNUC LH 500.00 MHz
OBFRO 162167.63 Hz
OBSET 18
RGAIN 32 times
SCANS 32 times
SLVNT CDCL3
SPINNING 12 Hz
TEMP 23.9 C

0.000

2.371

3.435

3.583

3.790

7.244

7.252

7.257

7.261

7.269

7.278

7.285

7.299

7.305

7.316

7.324

81.8

1.99

2.00

2.98

5.54

0

2

4

6

8

10

ppm

1H Line

Date : Fri Sep 14 18:44:22 2001

FileName : LoadingFID.nmdata

Comment : 1H Line

SliceHistory

EXMODE : non

POINT : 16384 points

SAMPD : 16384 points

FREQU : 10000.0 Hz

FILTR : 5000 Hz

DELAY : 40.0 usec

DEADT : 58.7 usec

INTVL : 100.0 usec

TIMES : 32 times

DUMMY : 1 times

PD : 5.3616 sec

ACQTM : 1638.3999 msec

PREDL : 0.01000 msec

INWIT : 1000.0000 msec

RESOL : 0.61 Hz

PW1 : 2.63 usec

OBNUC : 1H

OBFRQ : 500.00 MHz

OBSET : 162167.63 Hz

RGAIN : 19

SCANS : 32 times

SLVNT : CDCL3

SPINNING : 10 Hz

TEMP : 23.5 C

11k

1H Line

Date : Wed Feb 27 17:57:29 2002

FileName : LoadingFID.nmdata
 Comment : 1H Line
 SliceHistory : non
 EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQ 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEADT 58.7 usec
 INTVL 100.0 usec
 TIMES 32 times
 DUMMY 1 times
 PD 5.3616 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INTWT 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 OSNUC 1H 500.00 MHz
 OSFRQ 162167.63 Hz
 OBSET 20
 RGAIN
 SCANS 32 times
 SLVNT CDCL3
 SPINNING 11 Hz
 TEMP 29.1 C

Date : Wed Feb 6 13:38:34 2002

File Name : LoadingFID.mdata
 Comment : 1H Line
 Slice History : non
 EXMODE :

POINT 16384 points
 SAMPD 16384 points
 FREQD 10000.0 Hz
 FILTR 5000 Hz
 DELAY 40.0 usec
 DEADT 58.7 usec
 INVTL 100.0 usec
 TIMES 32 times
 DUMMY 1 times
 PD 5.3615 sec
 ACQTM 1638.3999 msec
 PREDL 0.01000 msec
 INVT 1000.0000 msec
 RESOL 0.61 Hz
 PW1 2.63 usec
 DBNJC 1H
 DBFRQ 500.00 MHz
 DBSET 162167.63 Hz
 RGAIN 17
 SCANS 32 times
 SLVNT CDCL3
 SPINNT 13 Hz
 TEMP 24.8 C

13