**Preparation of Propargyl Hydroperoxides by Regioselective Oxidation of Allenic Zinc Reagents
with Molecular Oxygen**

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Table of Contents

¹³ C NMR Spectrum of 1-Phenyl-4-nonyn-3-yl Hydroperoxide (3a)	S-2
¹³ C NMR Spectrum of 6-Methyl-1-phenyl-4-octyn-3-yl Hydroperoxide (3b)	S-3
¹³ C NMR Spectrum of 6,6-Dimethyl-1-phenyl-4-heptyn-3-yl Hydroperoxide (3c)	S-4
¹³ C NMR Spectrum of 1-Cyclohexyl-2-heptynyl Hydroperoxide (3d)	S-5
¹³ C NMR Spectrum of 1-Cyclohexyl-4-methyl-2-hexynyl Hydroperoxide (3e)	S-6
¹³ C NMR Spectrum of 1-Cyclohexyl-4,4-dimethyl-2-pentynyl Hydroperoxide (3f)	S-7
¹³ C NMR Spectrum of 1-Hexynylcyclohexyl Hydroperoxide (3g)	S-8
¹³ C NMR Spectrum of 1-Phenyl-4-nonyn-3-ol (4a)	S-9
¹³ C NMR Spectrum of 6-Methyl-1-phenyl-4-octyn-3-ol (4b)	S-10
¹³ C NMR Spectrum of 6,6-Dimethyl-1-phenyl-4-heptyn-3-ol (4c)	S-11
¹³ C NMR Spectrum of 1-Cyclohexyl-2-heptyn-1-ol (4d)	S-12
¹³ C NMR Spectrum of 1-Cyclohexyl-4-methyl-2-hexyn-1-ol (4e)	S-13
¹³ C NMR Spectrum of 1-Cyclohexyl-4,4-dimethyl-2-pentyn-1-ol (4f)	S-14
¹³ C NMR Spectrum of 1-(1-Hexynyl)cyclohexanol (4g)	S-15
¹³ C NMR Spectrum of 5-Phenyl-1-pentyn-3-yl Hydroperoxide (7)	S-16

Current Data Parameters
 NAME 8C-150-HE
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20021114
 Time 16.45

INSTRUM DRAGON
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 681
 DS 2

RG 32768
 EQ 0.600000 Hz
 AQ 0.020000 sec
 RG 2560.3
 DE 12.000 us
 TE 300.0 K

d11 0.0300000 sec
 d12 0.0002000 sec
 d13 18.00 dB
 D1 0.5000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 us
 RF 600.1320000 MHz

NUC1 1H
 PL2 -6.00 dB
 PL12 18.00 dB
 PL1 5.70 us
 PC 1.40

F2 - Processing parameters
 SI 32768
 SF 125.7677982 MHz
 EQ 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 25.00 cm
 FIP 184.482 pp
 F1 23201.26 Hz
 F2 -18.508 pp
 F2 -1860.27 Hz
 PPRCH 6.00000 pp
 HZCN 1006.06236 Hz

13.550
 18.367
 21.920
 30.594
 31.315
 34.760

75.815
 76.745
 76.999
 77.249
 87.978

126.017
 128.413
 128.436
 141.047

3a

Current Data Parameters
NAME BC-108-P8
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20021110
Time 18.06
INSTRUM DRX500
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 111
DS 2
SWH 39882.836 Hz
FIDRES 0.000507 Hz
AQ 0.6269036 sec
RG 2886.3
DM 12.600 us
DE 7.50 us
TE 300.0 K
0.03000000 sec
0.00002000 sec
0.00002000 sec
0.50000000 sec
waltz16
PCPD2 100.00 us
SF02 500.1320006 MHz
NUC2 1H
PL2 -5.00 dB
PL12 18.00 dB
P1 5.70 us
SF01 125.773214 MHz
NUC1 13C
PL1 -2.00 dB
F2 - Processing parameters
SI 32768
SF 125.7677970 MHz
WDW EN
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
1D NMR plot parameters
CX 25.00 cm
F1P 169.182 pp
F1 21147.88 Hz
F2P -18.162 pp
F2 -2282.77 Hz
PPIPC 7.46286 pp
HZCN 837.21765 Hz

34.847
31.345
29.720
27.507
20.579
11.742

77.368
77.250
76.996
76.741
75.846

92.316

128.443
128.423
126.024

141.081

3b

Current Data Parameters
 NAME 8C-188-HD
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20021118
 Time 15:18
 INSTRUM DPX500
 PROBRD 5 mm Multinu
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 960
 DS 2
 SWH 36582.138 Hz
 FIDRES 0.50507 Hz
 AQ 0.6258036 sec
 RG 2048
 DW 12.500 usec
 DE 7.50 usec
 TE 300.0 K
 d11 0.03000000 sec
 d12 0.00020000 sec
 PL12 18.00 dB
 PL13 18.00 dB
 D1 0.50000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 500.1320006 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 18.00 dB
 P1 5.70 usec
 SF01 125.7736214 MHz
 NUC1 13C
 PL1 -2.00 dB

F2 - Processing parameters
 SI 32768
 SF 125.7677934 MHz
 WDW EN
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 25.00 cm
 FIP 175.445 pp
 F1 22063.59 Hz
 F2 -4.555 pp
 F2 -672.81 Hz
 RFNCH 7.20000 pp
 HZCN 905.45598 Hz

34.83
31.37
30.96
27.47

77.27
77.01
76.76
75.85
75.52

96.41

128.48
128.44
126.04

141.12

3c

Current Data Parameters
 NAME 8C-173-P8
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20021115
 Time 17.30

INSTRUM DRUGBO
 PROBHD 5 mm NMR
 PULPROG zgpg30
 TO 66536

SOLVENT CDCl3
 NS 244
 DS 2

36982.538 Hz
 0.800007 Hz
 0.6250036 Hz

1825.15
 12.600 us
 7.50 us

300.0 K
 0.03000000 Hz
 0.00002000 Hz

18.00 dB
 0.50000000 Hz
 100.00 us

500.1300005 MHz
 1H
 -5.00 dB

18.00 dB
 6.70 us
 126.7736214 MHz

13C
 -2.00 dB
 F2 - Processing parameters

97 32786
 98 126.7577634 MHz
 100 0

EN
 0
 1.00 Hz

0
 0
 1.40

10 NMR plot parameters
 CX 25.00 dB
 F1P 98.652 Hz

F1 124.4213 Hz
 F2P 1.605 Hz
 F2 201.88 Hz

PHICH 3.70786 Hz
 HZOH 477.60688 Hz

13.5508

18.4023

21.9494

25.7613

25.7982

26.2701

28.3498

28.9955

30.6991

40.6382

75.4916

76.7480

77.0009

77.2562

81.3910

88.2665

3d

ppm

S-5

ppm

Current Data Parameters
NAME 8C-178-P8
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20090106
Time 20.05
INSTRUM DR0500
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 2
SWH 39882.1339 Hz
FIDRES 0.609507 Hz
AQ 0.8255038 sec
RG 1825.5
RW 12.500 us
DE 7.00 us
TE 300.0 K
T1 0.03000000 sec
d12 0.00020000 sec
PL13 18.00 dB
D1 0.50000000 sec
wAltz16
CPRPR22
PCPD2 100.00 us
SFO2 500.1326003 MHz
NUC2 1H
PL2 -8.00 dB
PL12 18.00 dB
P1 5.70 us
SFO1 125.7738214 MHz
NUC1 13C
PL1 -2.00 dB

F2 - Processing parameters

SI 32768
SF 125.7671934 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CK 25.00 cm
F1P 100.000 pp
F1 12676.78 Hz
F2 0.000 pp
F2 0.00 Hz
PRNCH 4.00000 pp
HZCH 503.03118 Hz

3e

11.776
20.657
25.773
25.812
26.295
27.554
28.321
29.034
29.804
40.628
40.647

76.557
76.738
76.991
77.246
81.424

Current Date Parameters
 NAME BC-170-PQ
 EXPNO 1
 PRGNO 1

F2 - Acquisition Parameters
 Date_ 20021118
 Time 15.44

INSTRUM DRX500
 PROBRD 5 mm Multinu
 PULPROG zgpg30
 TD 65536
 SOLVENT CDCl3
 NS 208
 DS 2
 SWH 39992.1350 Hz
 FIDRES 0.86067 Hz
 AQ 0.9259036 sec
 RG 6792.8
 DM 12.800 us
 DE 7.80 us
 TE 300.0 K
 d11 0.0300000 sec
 d12 0.0002000 sec
 PL13 18.00 dB
 PL12 18.00 dB
 PL1 0.5000000 sec
 CPDPRG2 weitz18
 PCPD2 100.00 us
 SF02 500.1320005 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 18.00 dB
 P1 5.70 us
 SF01 125.7736214 MHz
 NUC1 13C
 PL1 -2.00 dB

F2 - Processing parameters
 SI 32768
 SF 125.7577834 MHz
 WDW EN
 SSF 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 25.00 sec
 F1P 107.615 pp
 F1 13633.42 Hz
 F2P 11.927 pp
 F2 1467.36 Hz
 PPMON 3.63150 pp
 HZON 481.84165 Hz

3f

40.611
 30.992
 29.051
 28.274
 27.493
 26.309
 25.818
 25.786

81.371
 77.249
 76.994
 76.740
 74.722

96.702

Current Data Parameters

NAME 8C-171-PC2
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20021119
Time 18.31
INSTRUM DFX500
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 928
DS 2
SWH 38692.138 Hz
FIDRES 0.60907 Hz
AQ 0.826936 sec
RG 4096
DW 12.500 us
DE 7.50 us
TE 300.0 K
d11 0.03000000 sec
d12 0.00020000 sec
PL13 18.00 dB
DI 0.50000000 sec
CPOPRG2 waltz16
PCPD2 100.00 us
9F02 500.1320005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 18.00 dB
P1 6.70 us
9F01 126.7738214 MHz
NUC1 13C
PL1 -2.00 dB

F2 - Processing parameters

SI 32768
9F 126.7677834 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 25.00 cm
F1P 104.887 pp
F1 131.8641 Hz
F2P -4.334 pp
F2 -646.03 Hz
PRNCH 4.36122 pp
HZON 646.45762 Hz

35.2073
30.7872
25.4040
22.7184
21.9327
18.3286
13.5760

86.8984
81.3989
80.0946
77.2511
76.9984
76.7430

3g

Current Data Parameters
 NAME 6C-17S-PC
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20021126
 Time 18.39
 INSTRUM DEK600
 PROBRD 5 mm Multinu
 PULPROG zgpg30
 TD 66636
 SOLVENT CDCl3
 NS 120
 DS 2
 SWH 39882.839 Hz
 FIDRES 0.60567 Hz
 AQ 0.8265036 sec
 RG 4089
 DN 12.800 us
 DE 7.50 us
 TE 300.0 K
 d11 0.03000000 sec
 d12 0.00020000 sec
 PL12 18.00 dB
 PL13 18.00 dB
 DI 0.50000000 sec
 CD09982 waltz16
 PCPD2 100.00 us
 SF02 500.1320005 MHz
 NU02 5H
 PL2 -8.00 dB
 PL12 18.00 dB
 P1 6.70 us
 SF01 126.7736214 MHz
 NU01 13C
 PL1 -2.00 dB

F2 - Processing parameters
 SI 32788
 SF 126.7677882 MHz
 WDW EN
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 26.00 cm
 F1P 165.808 pp
 F1 20984.17 Hz
 F2P -6.014 pp
 F2 -630.54 Hz
 PPRICH 6.65885 pp
 NUCN 665.78833 Hz

4a

Current Data Parameters
NAME 8C-184-PA
EXPNO 2
PROCNO 1

F2 - Acquisition Parameter

Date_ 20021212
Time 18.35
INSTRUM DR5000
PROBHD 5 mm Multinu
PULPROG zgpg30
TO 60036
SOLVENT CDCl3
NS 247
DS 2
SWH 39682.639 Hz
FIDRES 0.800507 Hz
AQ 0.8229036 sec
RG 7268.2
DM 12.800 us
DE 7.50 us
TE 300.0 K
D11 0.03000000 sec
D12 0.00020000 sec
PL13 18.00 dB
D1 0.50000000 sec
CROSSP2 wait18
PCPD2 100.00 us
SF02 500.1320005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 18.00 dB
PL 6.70 us
SF01 125.7736214 MHz
NUC1 13C
PL1 -2.00 dB

F2 - Processing parameters

SI 32768
SF 125.7577846 MHz
WDW EN
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 25.00 cm
FAP 157.621 pp
F1 19822.08 Hz
F2 -3.982 pp
PRNCH 6.48284 pp
H2CN 812.78465 Hz

11.751

20.664

27.472

29.803

31.508

39.750

62.034

76.750

77.003

77.258

81.166

90.287

125.890

128.386

128.478

141.529

4b

ppm 0 20 40 60 80 100 120 140

Current Data Parameters
NAME BC-186-PA
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20021212
Time 16.52

INSTRUM DRUG000
PROBHD 5 mm Multinu
PULPROG zgpg30

TD 65536
SOLVENT CDCl3
NS 368

DS 2
SWH 30662.636 Hz
AQ 0.60007 Hz

FIDRES 0.8266036 aa
RG 384.1
DM 12.800 us

DE 7.80 us
TE 300.0 K
D11 0.05000000 aa

d12 0.00002000 aa
PL13 18.00 dB
D1 0.50000000 aa

CPDPR22waltz16
PC102 100.00 us
SF02 500.1320005 MHz

NUC2 1H
PL2 -8.00 dB
PL12 18.00 dB

P1 6.70 us
SF01 126.7736214 MHz
NUC1 13C

PL1 -2.00 dB
F2 - Processing parameters
SI 32768

SF 126.7677934 MHz
WDW EN
SSB 0

LB 1.00 Hz
GB 0
PC 1.40

ID NMR plot parameters
CX 26.00 cm

F1P 168.127 pp
F1 21289.04 Hz
F2P -0.368 pp

F2 -44.98 Hz
PPHON 6.77936 pp
HZCN 862.56007 Hz

79.33
77.26
77.00
76.75
61.98
39.72
31.53
31.00
27.34
94.31
125.89
128.39
128.49
141.56

4c

Current Data Parameters
NAME 8C-18C-PA
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20030107
Time 15.53
INSTRUM DRAGON
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 611
DS 2
SWH 30682.630 Hz
FIDRES 0.806567 Hz
AQ 0.6260036 sec
RG 4096
DN 12.800 us
DE 7.90 us
TE 300.0 K
d11 0.03000000 sec
d12 0.00020000 sec
PL1 19.00 dB
PL2 19.00 dB
PL12 19.00 dB
P1 5.70 us
SF01 125.773214 MHz
NUC1 13C
PL1 -2.00 dB
F2 - Processing parameters
SI 32768
SF 125.7577822 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
1D NMR plot parameters
CX 25.00 cm
F1P 114.214 ps
F1 14383.34 Hz
F2P 7.987 ps
F2 1004.43 Hz
PRCH 4.24808 ps
HZDN 534.36645 Hz

31.0403
28.6281
27.9910
27.3596
26.4660
25.9499
25.9165

44.3839

67.3214

76.7473
77.0001
77.2543
78.4626

94.5846

4f

ppm 10 20 30 40 50 60 70 80 90 100

Current Data Parameters
NAME BC-172-PF
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20030115
Time 21:13
INSTRUM DRAGON
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 1128
DS 2
SWH 36882.836 Hz
FIDRES 0.800607 Hz
AQ 0.8266036 sec
RG 2688.3
DM 12.800 us
DE 7.00 us
TE 300.0 K
D11 0.03000000 sec
D12 0.0002000 sec
PL13 18.00 dB
DI 0.60000000 sec
waltz16
PCPD2 100.00 us
RF02 500.1320005 MHz
NUC2 1H
PL2 -6.00 dB
PL12 18.00 dB
P1 6.70 us
RF01 125.7736214 MHz
NUC1 13C
PL1 -2.00 dB

F2 - Processing parameters

SI 32768
SF 125.7677822 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 25.00 sec
F1P 86.283 pp
F1 12381.06 Hz
F2P 2.731 pp
F2 343.38 Hz
PPHON 3.82249 pp
HZCN 480.70715 Hz

4g

Current Data Parameters
NAME BC-183-PE
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters

Date_ 20030118
Time 13.30
INSTRUM spect
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 161
DS 2
SWH 36882.539 Hz
FIDRES 0.605607 Hz
AQ 0.8259036 sec
RG 4096
DE 12.600 us
TE 7.00 us
d11 300.0 K
d12 0.03000000 sec
PL12 0.00025000 sec
PL19 18.00 dB
D1 0.50000000 sec
CDEPR22 null116
PCPD2 100.00 us
SF02 500.1320006 MHz
NUC2 1H
PL2 -8.00 dB
PL12 18.00 dB
P1 5.70 us
SF01 126.773214 MHz
NUC1 13C
PL1 -2.00 dB

F2 - Processing parameters

SI 32768
SF 126.7677834 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 26.00 cm
F1P 106.512 pp
F1 21181.64 Hz
F2P 0.787 pp
F2 100.21 Hz
PPIPCN 8.70859 pp
HZCN 843.65717 Hz

81.23
77.28
77.02
76.77
75.16
74.92
34.31
31.15

140.65
128.52
128.47
126.20

7

ppm 150 140 120 100 80 60 40 20