SUPPORTING INFORMATION

Supporting information

Montmorillonite K10 Clay – An efficient catalyst for the one pot
stereoselective synthesis of β -acetamidoketones

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Sample ID : 002
 Sample Amount : 0
 Dilution Factor : 0
 Type : Unknown
 Operator : Prasanna
 Method File Name : DIPKP.MET
 Vial No. : 0
 Barcode :

Scan # : 2146 B.G. Scan # : 2128
 Mass Peak # : 141 Ret Time : 17.883
 Base Peak : 120.05 (205588)

JB2

Current Data Parameters
 NAME chandrudh
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20020527
 Time 12.43
 INSTRUM dpx300
 PROBO 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 12
 DS 0
 SM 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013584 sec
 RG 181
 DW 103.800 usec
 DE 169.96 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 11.00 usec
 SFO1 300.1316784 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300067 MHz
 HCN EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 80.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 10.598 ppm
 F1 3180.70 Hz
 F2 -180.52 Hz
 PPMCH 0.55996 ppm/cm
 HZCH 168.06085 Hz/cm

Current Data Parameters
 NAME chandru13c
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20020527
 Time 13.07
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgdc
 TD 32768
 SOLVENT CDCl3
 NS 300
 DS 0
 SMH 18115.941 Hz
 FIDRES 0.552855 Hz
 AQ 0.9044468 sec
 RG 2048
 DM 27.500 usec
 DE 9.43 usec
 TE 300.0 K
 D11 0.03000000 sec
 PL12 17.20 dB
 CPDPRG2 waltz16
 PCPD2 80.00 usec
 SF02 300.1312700 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 3.00000000 sec
 P1 10.00 usec
 SF01 75.4760204 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters

SI 16384
 SF 75.4677537 MHz
 WDW EM
 SSB 0
 LB 0.20 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F4P 229.565 ppm
 F1 17324.77 Hz
 F2P -10.484 ppm
 F2 -791.18 Hz
 PPMCM 12.00244 ppm/cm
 HZCM 905.79706 Hz/cm

1a

JB2

S4

Sample ID : 00110
 Sample Amount : 0
 Dilution Factor : 0
 Type : Unknown
 Operator : Prasanna
 Method File Name : DIPKP.MET
 Vial No. : 0
 Barcode :

Scan # : 1221 B.G. Scan # : 1238
 Mass Peak # : 118 Ret. Time : 10.175
 Base Peak : 175.15 (43128)

JB-15

Current Data Parameters
 NAME chandruih
 EXPNO 4
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20020709
 Time 12.13
 INSTRUM dpx300
 PROBDW 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 5
 DS 0
 SMH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 1149.4
 DM 103.800 usec
 DE 169.96 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 11.00 usec
 SF01 300.1316784 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300064 MHz
 MDW EM
 SS8 0
 LB 0.30 Hz
 GB 0
 PC 2.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 11.309 ppm
 F1 3394.03 Hz
 F2P -0.581 ppm
 F2 -174.30 Hz
 PPMCM 0.59446 ppm/cm
 HZCM 178.41673 Hz/cm

0.0000

1.7534

2.0886

3.5347

3.7911

5.6747

6.9924

7.2645

7.4724

7.4986

7.5816

7.6032

7.8820

7.9022

8.1599

8.1786

3.959

2.270

1.000

1.181

6.017

2.514

2.605

ppm

S7

Integral

ppm

Current Data Parameters
 NAME chandru13c
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20020709
 Time 20.12
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgdc
 TD 32768
 SOLVENT CDCl3
 NS 2000
 DS 0
 SMH 18115.941 Hz
 FIDRES 0.552855 Hz
 AQ 0.904468 sec
 RG 2298.8
 DM 27.600 usec
 DE 9.43 usec
 TE 300.0 K
 D11 0.0300000 sec
 PL12 17.20 dB
 CPDPRG2 waltz16
 PCPD2 80.00 usec
 SF02 300.1312700 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 3.0000000 sec
 P1 10.00 usec
 SF01 75.4750204 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters

SI 16384
 SF 75.4677537 MHz
 NDM EM
 SSB 0
 LB 0.20 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F1P 211.403 ppm
 F1 15954.08 Hz
 F2P -6.548 ppm
 F2 -494.19 Hz
 PPMCH 10.89755 ppm/cm
 HZCM 822.41345 Hz/cm

37.089
 42.533
 49.143

77.396
 76.972
 76.549

106.814
 121.655
 123.806
 127.371
 128.061
 128.856
 130.948
 134.024
 136.093

178.460

198.168

ppm

ppm

JB15

Sample : BJ-2
ID :
Sample Amount : 0
Dilution Factor : 0
Type : Unknown
Operator : Prasanna
Method File Name : DIPKP.MET
Vial No. : 1
Barcode :

Scan # : 21 B.G. Scan # : 23
Mass Peak # : 101 Ret. Time : 0.175
Base Peak : 41.00 (76866)

BJ2

Current Data Parameters
NAME chandruth
EXPNO 4
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020523
Time 17.41
INSTRUM dpx300
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl₃
NS 8
DS 0
SWH 4194.631 Hz
FIDRES 0.128010 Hz
AQ 3.9058566 sec
RG 256
DE 119.200 usec
TE 169.86 usec
TE 300.0 K
D1 1.0000000 sec
P1 11.00 usec
SF01 300.1319508 MHz
NUC1 1H
PL1 0.00 dB

F2 - Processing parameters
SI 16384
SF 300.1300056 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 4.00

1D NMR plot parameters
CX 20.00 cm
FIP 10.446 ppm
F1 3135.17 Hz
F2 -0.398 ppm
F2 -119.48 Hz
PPMCH 0.54221 ppm/cm
HZCM 162.73213 Hz/cm

Sample ID : 0019p
 Sample Amount : 0
 Dilution Factor : 0
 Type : Unknown
 Operator : Prasanna
 Method File Name : DIPKP.MET
 Vial No. : 0
 Barcode :

Scan # : 843 B.G. Scan # : 871
 Mass Peak # : 151 Ret. Time : 7.025
 Base Peak : 39.95 (100673)

JB21

Current Data Parameters
 NAME chandruh
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20020731
 Time 16.10
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 4
 DS 0
 SMH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 512
 CM 103.800 usec
 DE 169.96 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 11.00 usec
 SF01 300.1316784 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300043 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 10.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 9.838 ppm
 F1 2952.71 Hz
 F2P -0.302 ppm
 F2 -90.54 Hz
 PPMCH 0.50689 ppm/cm
 HZCH 162.16235 Hz/cm

Sample : JB 6
ID :
Sample Amount : 0
Dilution Factor : 0
Type : Unknown
Operator : Prasanna
Method File Name : DIPKP.MET
Vial No. : 0
Barcode :

Scan # : 323 B.G. Scan # : 329
Mass Peak # : 105 Ret. Time : 2.692
Base Peak : 148.10 (139261)

JB6

Current Data Parameters
 NAME chandruh
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20020618
 Time 13.00
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 64
 DW 103.800 usec
 DE 169.96 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 11.00 usec
 SF01 300.1316784 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300002 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 20.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 9.885 ppm
 F1 2966.71 Hz
 F2P -0.688 ppm
 F2 -206.46 Hz
 PPMCH 0.52863 ppm/cm
 HZCM 158.65848 Hz/cm

Current Data Parameters
 NAME chandru13c
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters

Date_ 20020618
 Time 15.17
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zgdc
 TD 32768
 SOLVENT CDCl3
 NS 160
 DS 0
 SWH 18115.941 Hz
 FIDRES 0.552855 Hz
 AQ 0.9044468 sec
 RG 1625.5
 DM 27.600 usec
 DE 9.43 usec
 TE 300.0 K
 D11 0.03000000 sec
 PL12 17.20 dB
 PCPRG2 waltz16
 PCPD2 80.00 usec
 SF02 300.1312700 MHz
 NUC2 1H
 PL2 120.00 dB
 D1 3.00000000 sec
 P1 10.00 usec
 SF01 75.4760204 MHz
 NUC1 13C
 PL1 -6.00 dB

F2 - Processing parameters

SI 16384
 SF 75.4677570 MHz
 WDW EM
 SSB 0
 LB 0.20 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F1P 227.121 ppm
 F1 17140.29 Hz
 F2P -7.227 ppm
 F2 -545.40 Hz
 PPMCH 11.71738 ppm/cm
 HZCH 884.28448 Hz/cm

JB6

15

ID: 100700
Sample Amount : 0
Dilution Factor: 0
Type : Unknown
Operator : Prasanna
Method File Name : DIPKP.MET
Vial No. : 0
Barcode :

Scan # : 317 B.G. Scan #: 320
Mass Peak #: 93 Ret. Time: 2.642
Base Peak : 148.15 (137570)

JB10

Current Data Parameters
NAME chandruh
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20020625
Time 15.13
INSTRUM dpx300
PROBHD 5 mm Mj1inu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 9
DS 0
SMH 4816.956 Hz
FIDRES 0.147002 Hz
AQ 3.4013684 sec
RG 128
DM 103.800 usec
DE 169.96 usec
TE 300.0 K
D1 1.0000000 sec
P1 11.00 usec
SF01 300.1316784 MHz
NUC1 1H
PL1 0.00 dB

F2 - Processing parameters
SI 16384
SF 300.1300040 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 40.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.769 ppm
F1 2631.72 Hz
F2P -0.921 ppm
F2 -276.52 Hz
PPMH 0.48450 ppm/cm
HZCM 145.41185 Hz/cm

JB10

Sample ID : 0090
 Sample Amount : 0
 Dilution Factor : 0
 Type : Unknown
 Operator : Prasanna
 Method File Name : DIPKP.MET
 Vial No. : 1
 Barcode :

Scan # : 914 B.G. Scan # : 926
 Mass Peak # : 127 Ret. Time : 7.617
 Base Peak : 104.85 (155219)

Current Data Parameters
 NAME chandruh
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20021004
 Time 16.45
 INSTRUM dpx300
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 4
 DS 0
 SMH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 64
 DN 103.800 usec
 DE 169.96 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 11.00 usec
 SF01 300.1320709 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300070 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 4.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 11.927 ppm
 F1 3579.64 Hz
 F2P -0.549 ppm
 F2 -164.74 Hz
 PPMCH 0.62379 ppm/cm
 HZCM 187.21902 Hz/cm

Sample Amount : 0
 Dilution Factor : 0
 Type : Unknown
 Operator : Prasanna
 Method File Name : DIPKP.MET
 Vial No. : 0
 Barcode :

Scan # : 1654 B.G. Scan # : 1661
 Mass Peak # : 100 Ret. Time : 13.783
 Base Peak : 226.15 (139380)

BJ14

Current Data Parameters
 NAME chandrujh
 EXPNO 5
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20021006
 Time 14.12
 INSTRUM dpx300
 PROBD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT DMSO
 NS 8
 DS 0
 SNH 4816.956 Hz
 FIDRES 0.147002 Hz
 AQ 3.4013684 sec
 RG 574.7
 DW 103.800 usec
 DE 169.96 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 11.00 usec
 SF01 300.1320709 MHz
 NUC1 1H
 PL1 0.00 dB

F2 - Processing parameters
 SI 16384
 SF 300.1300085 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 4.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 11.023 ppm
 F1 3308.42 Hz
 F2P -0.982 ppm
 F2 -294.66 Hz
 PPMCM 0.60025 ppm/cm
 HZCM 180.15416 Hz/cm

Date: Wed Jul 17 12:40:32 2002

Scans: 50

Resolution: 4.000

***sample3519 JB 20