Supporting Information

Cross Coupling of Benzylammonium Salts with Boronic Acids Using
a Well-Defined N-Heterocyclic Carbene Palladium(II) Precatalyst

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Characterization Data of the Catalysis Products 3aa-3am and 3ba-3bi

Complex (3aa)[1, 2, 4]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.18 (t, $J = 7.5$ Hz, 2H, ArH), 7.09 (t, $J = 7.8$ Hz, 3H, ArH), 7.01 (d, $J = 8.5$ Hz, 2H, ArH), 6.73 (d, $J = 8.5$ Hz, 2H, ArH), 3.83 (s, 2H, CH$_2$), 3.67 (s, 3H, OMe). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 158.0, 141.6, 133.3, 129.9, 128.9, 128.5, 126.0, 113.9, 55.3, 41.1.

Complex (3ab)[2, 4]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.30-7.26 (m, 2H, ArH), 7.22-7.18 (m, 4H, ArH), 6.79-6.73 (m, 3H, ArH), 3.96 (s, 2H, CH$_2$), 3.76 (s, 3H, OMe). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 159.7, 142.7, 140.9, 129.4, 128.9, 128.5, 126.1, 121.4, 114.8, 111.3, 55.2, 42.0.

Complex (3ac)[2, 4]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.26-7.13 (m, 6H, ArH), 7.04 (d, $J = 6.4$ Hz, 1H, ArH), 6.85 (t, $J = 7.3$ Hz, 2H, ArH), 3.95 (s, 2H, CH$_2$), 3.79 (s, 3H, OMe). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 157.4, 141.0, 130.3, 129.7, 129.0, 128.3, 127.4, 125.8, 120.5, 110.4, 55.4, 35.9.

Complex (3ad): $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.28-7.25 (m, 2H, ArH), 7.20-7.16 (m, 3H, ArH), 6.34 (d, $J = 2.2$ Hz, 2H, ArH), 6.30 (t, $J = 2.2$ Hz, 1H, ArH), 3.90 (s, 2H, CH$_2$), 3.72 (s, 6H, OMe). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 160.9, 143.5, 140.8, 128.9, 128.5, 126.2, 107.2, 98.0, 55.3, 42.2. GC-MS (EI) calcd for C$_{15}$H$_{16}$O$_2$: 228.1, found: 228.2.

Complex (3ae)[2-4]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.28-7.24 (m, 2H, ArH), 7.20-7.16 (m, 3H, ArH), 7.10-7.05 (m, 4H, ArH), 3.93 (s, 2H, CH$_2$), 2.30 (s, 3H, CH$_3$). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 141.5, 138.1, 135.6, 129.2, 128.9, 128.8, 128.5, 126.0, 41.6, 21.1.

Complex (3af)[3]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.30-7.26 (m, 2H, ArH), 7.22-7.15 (m, 4H, ArH), 7.01-6.98 (m, 3H, ArH), 3.94 (s, 2H, CH$_2$), 2.30 (s, 3H, CH$_3$). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 141.3, 141.1, 138.1, 129.7, 128.9, 128.5, 126.8, 126.0, 125.9, 41.9, 21.4.

Complex (3ag)[1, 3, 4]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.28-7.23 (m, 3H, ArH), 7.20-7.09 (m, 6H, ArH), 3.98 (s, 2H, CH$_2$), 2.24 (s, 3H, CH$_3$). $^{13}$C NMR (100 MHz, CDCl$_3$): $\delta$ 140.4, 138.9, 136.7, 130.3, 130.0, 128.8, 128.4, 126.5, 126.0, 125.9, 39.5, 19.7.

Complex (3ah)[4]: $^1$H NMR (400 MHz, CDCl$_3$): $\delta$ 7.28-7.25 (m 1H, ArH), 7.19-7.16 (m, 4H, ArH), 6.81 (d, $J = 9.1$ Hz, 3H, ArH), 3.89 (s, 2H, CH$_2$), 2.26 (s, 6H, CH$_3$). $^{13}$C NMR
(100 MHz, CDCl₃): δ 141.4, 141.0, 138.0, 129.0, 128.5, 127.8, 126.8, 126.0, 41.9, 21.3.

**Complex (3ai)**[2-4]: ^1^H NMR (400 MHz, CDCl₃): δ 7.30-7.27 (m, 2H, ArH), 7.23-7.20 (m, 1H, ArH), 7.17-7.11 (m, 4H, ArH), 6.99-6.93 (m, 2H, ArH), 3.94 (s, 2H, CH₂). ^1^C NMR (100 MHz, CDCl₃): δ 162.7, 160.2, 141.0, 136.8 (d, J = 3.0 Hz), 130.3 (d, J = 7.9 Hz), 128.7 (d, J = 29.2 Hz), 126.2, 115.3 (d, J = 21.0 Hz), 41.1.

**Complex (3aj)**[2-4]: ^1^H NMR (400 MHz, CDCl₃): δ 7.30-7.27 (m, 2H, ArH), 7.23-7.20 (m, 1H, ArH), 7.17-7.11 (m, 4H, ArH), 6.99-6.93 (m, 2H, ArH), 3.94 (s, 2H, CH₂). ^1^C NMR (100 MHz, CDCl₃): δ 162.7, 160.2, 141.0, 136.8 (d, J = 3.0 Hz), 130.3 (d, J = 7.9 Hz), 128.7 (d, J = 29.2 Hz), 126.2, 115.3 (d, J = 21.0 Hz), 41.1.

**Complex (3ak)**[3-4]: ^1^H NMR (400 MHz, CDCl₃): δ 7.99-7.96 (m, 1H, ArH), 7.85-7.83 (m, 1H, ArH), 7.74 (d, J = 8.2 Hz, 1H, ArH), 7.44-7.38 (m, 3H, ArH), 7.28-7.23 (m, 3H, ArH), 7.19-7.15 (m, 3H, ArH), 4.43 (s, 2H, CH₂). ^1^C NMR (100 MHz, CDCl₃): δ 141.0, 138.6, 133.6, 132.1, 129.0, 128.5, 128.1, 127.7, 127.6, 127.5, 127.1, 126.2, 126.0, 125.4, 42.1.

**Complex (3al)**[1-2]: ^1^H NMR (400 MHz, CDCl₃): δ 7.99-7.96 (m, 1H, ArH), 7.85-7.83 (m, 1H, ArH), 7.74 (d, J = 8.2 Hz, 1H, ArH), 7.44-7.38 (m, 3H, ArH), 7.28-7.23 (m, 3H, ArH), 7.19-7.15 (m, 3H, ArH), 4.43 (s, 2H, CH₂). ^1^C NMR (100 MHz, CDCl₃): δ 141.0, 138.6, 133.6, 132.1, 129.0, 128.5, 128.1, 127.7, 127.6, 127.5, 127.1, 126.2, 126.0, 125.4, 42.1.

**Complex (3am)**: ^1^H NMR (400 MHz, CDCl₃): δ 7.30-7.27 (m, 2H, ArH), 7.23-7.18 (m, 4H, ArH), 6.91-6.89 (m, 2H, ArH), 3.97 (s, 2H, CH₂). ^1^C NMR (100 MHz, CDCl₃): δ 141.5, 140.6, 128.8, 128.5, 126.2, 125.6, 121.3, 119.8, 36.6. GC-MS (EI) calcd for C₁₁H₁₀S: 174.1, found: 174.1.

**Complex (3ba)**[1]: ^1^H NMR (400 MHz, CDCl₃): δ 7.30-7.27 (m, 2H, ArH), 7.23-7.18 (m, 4H, ArH), 6.91-6.89 (m, 2H, ArH), 3.97 (s, 2H, CH₂). ^1^C NMR (100 MHz, CDCl₃): δ 157.9, 138.6, 135.5, 133.6, 129.8, 129.2, 128.7, 113.9, 55.3, 40.6, 21.0.

**Complex (3bb)**: ^1^H NMR (400 MHz, CDCl₃): δ 7.16 (t, J = 7.8 Hz, ArH), 7.10 (d, J = 8.6 Hz, 2H, ArH), 6.98 (t, J = 8.8 Hz, 3H, ArH), 6.84-6.80 (m, 2H, ArH), 3.87 (s, 2H, CH₂), 3.76 (s, 3H, OMe), 2.30 (s, 3H, CH₃). ^1^C NMR (100 MHz, CDCl₃): δ 158.0, 141.5, 138.0, 133.4, 129.9, 129.6, 128.4, 126.8, 125.9, 113.9, 55.3, 41.0, 21.5. GC-MS (EI) calcd for C₁₅H₁₆O: 212.1, found: 212.1.

**Complex (3bc)**[1]: ^1^H NMR (400 MHz, CDCl₃): δ 7.15-7.12 (m, 3H, ArH), 7.09-7.06 (m,
1H, ArH), 7.05-7.01 (m, 2H, ArH), 6.82-6.79 (m, 2H, ArH), 3.91 (s, 2H, CH₂), 3.76 (s, 3H, OMe), 2.23 (s, 3H, CH₃). ¹³C NMR (100 MHz, CDCl₃): δ 156.8, 138.3, 135.5, 131.4, 129.2, 128.7, 128.6, 125.3, 124.9, 112.7, 54.2, 37.5, 18.6.

**Complex (3bd):** ¹H NMR (400 MHz, CDCl₃): δ 7.31-7.28 (m, 2H, ArH), 7.12-7.09 (m, 4H, ArH), 6.84-6.81 (m, 2H, ArH), 3.89 (s, 2H, CH₂), 3.77 (s, 3H, OMe), 1.29 (s, 9H, CH₃).

¹³C NMR (100 MHz, CDCl₃): δ 157.9, 148.8, 138.6, 133.5, 129.9, 128.4, 125.4, 113.9, 55.3, 40.5, 34.4, 31.4. GC-MS (EI) calcd for C₁₈H₂₂O: 254.2, found: 254.2.

**Complex (3be):** ¹H NMR (400 MHz, CDCl₃): δ 7.13-7.06 (m, 4H, ArH), 6.95 (t, J = 8.7 Hz, 2H, ArH), 6.83 (d, J = 8.6 Hz, 2H, ArH), 3.88 (s, 2H, CH₂), 3.77 (s, 3H, OMe).

¹³C NMR (100 MHz, CDCl₃): δ 161.4 (d, J = 242.2 Hz), 158.1, 137.3 (d, J = 30.8 Hz), 133.1, 130.2 (d, J = 78.9 Hz), 129.8, 115.2 (d, J = 210.8 Hz), 114.0, 55.3, 40.2. GC-MS (EI) calcd for C₁₄H₁₃FO: 216.1, found: 216.1.

**Complex (3bf):** ¹H NMR (400 MHz, CDCl₃): δ 8.13 (d, J = 8.8 Hz, 2H, ArH), 7.32 (d, J = 8.8 Hz, 2H, ArH), 7.09 (d, J = 8.7 Hz, 2H, ArH), 6.86 (d, J = 8.7 Hz, 2H, ArH), 4.02 (s, 2H, CH₂), 3.79 (s, 3H, OMe). ¹³C NMR (100 MHz, CDCl₃): δ 158.4, 149.4, 146.5, 131.3, 130.0, 129.5, 123.8, 114.2, 55.3, 40.9. GC-MS (EI) calcd for C₁₄H₁₃NO: 243.1, found: 243.1.

**Complex (3bg):** ¹H NMR (400 MHz, CDCl₃): δ 8.00-7.98 (m, 1H, ArH), 7.85-7.83 (m, 1H, ArH), 7.74 (d, J = 8.2 Hz, 1H, ArH), 7.45-7.38 (m, 3H, ArH), 7.26 (d, J = 6.9 Hz, 1H, ArH), 7.10 (d, J = 8.7 Hz, 2H, ArH), 6.82-6.78 (m, 2H, ArH), 4.38 (s, 2H, CH₂), 3.75 (s, 3H, OMe). ¹³C NMR (100 MHz, CDCl₃): δ 157.9, 137.1, 134.0, 132.7, 132.1, 129.7, 128.7, 127.2, 127.1, 126.0, 125.6, 125.5, 124.3, 113.9, 55.3, 38.2. GC-MS (EI) calcd for C₁₈H₁₆O: 248.1, found: 248.2.

**Complex (3bh)¹:** ¹H NMR (400 MHz, CDCl₃): δ 7.79-7.73 (m, 3H, ArH), 7.60 (s, 1H, ArH), 7.45-7.38 (m, 2H, ArH), 7.30-7.28 (m, 1H, ArH), 7.13 (d, J = 8.7 Hz, 2H, ArH), 6.85-6.81 (m, 2H, ArH), 4.07 (s, 2H, CH₂), 3.76 (s, 3H, OMe). ¹³C NMR (100 MHz, CDCl₃): δ 158.1, 139.1, 133.7, 133.1, 132.1, 130.0, 128.1, 127.7, 127.6, 127.5, 127.0, 126.0, 125.3, 114.0, 55.3, 41.3.

**Complex (3bi)¹,²:** ¹H NMR (400 MHz, CDCl₃): δ 7.29-7.25 (m, 2H, ArH), 7.20-7.16 (m, 3H, ArH), 7.09 (d, J = 8.6 Hz, 2H, ArH), 6.84-6.80 (m, 2H, ArH), 3.92 (s, 2H, CH₂), 3.76 (s, 3H, OMe). ¹³C NMR (100 MHz, CDCl₃): δ 158.0, 141.6, 133.3, 129.9, 128.9, 128.5,
126.0, 113.9, 55.3, 41.1.

References

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[2]. P. Maity, D. M. Shacklady-McAtee, G. P. A. Yap, E. R. Sirianni, M. P. Watson, *J. Am. Chem. Soc.*, **2013**, *135*, 280.

[3]. T. Wang, K. Xu, T. Meng, A. Zhang, H. Wang, S. Shen, L. Liu, *Chin. J. Org. Chem.*, **2017**, *37*, 1794.

[4]. X. -X. Wang, B. -B. Xu, W. -T. Song, K. -X. Sun, J. -M. Lu, *Org. Biomol. Chem.*, **2015**, *13*, 4925.
Copies of the $^1$H NMR and $^{13}$C NMR Spectra of Complexes 3aa-3am

$^1$H NMR(3aa)

$^{13}$C NMR(3aa)

4-OMe
$^1$H NMR(3ac)

$^{13}$C NMR(3ac)
$^1$H NMR(3ad)

$^{13}$C NMR(3ad)
$^1$H NMR(3ae)

$^{13}$C NMR(3ae)
$^1$H NMR(3af)

$^{13}$C NMR(3af)
$^1$H NMR(3ag)

$^{13}$C NMR(3ag)
$^1$H NMR(3ah)

$^{13}$C NMR(3ah)
$^{1}$H NMR(3ai)

$^{13}$C NMR(3ai)
$^1$H NMR(3aj)

$^{13}$C NMR(3aj)
$^1$H NMR(3ak)

$^{13}$C NMR(3ak)
$^1$H NMR(3al)

$^{13}$C NMR(3al)
$^{1}H$ NMR(3am)

$^{13}C$ NMR(3am)
Copies of the $^1$H NMR and $^{13}$C NMR Spectra of Complexes 3ba-3bi

$^1$H NMR(3ba)

$^{13}$C NMR(3ba)
$^1$H NMR(3bb)

$^{13}$C NMR(3bb)
$^1$H NMR(3bc)

$^{13}$C NMR(3bc)
$^1$H NMR(3bd)

$^{13}$C NMR(3bd)
$^1$H NMR(3be)

$^{13}$C NMR(3be)
$^{1}H$ NMR(3bf)

$^{13}C$ NMR(3bf)
$^1$H NMR(3bg)

$^{13}$C NMR(3bg)
$^1$H NMR(3bh)

$^{13}$C NMR(3bh)
$^1$H NMR(3bi)

$^{13}$C NMR(3bi)
Copies of the GC-MS Spectra of New Catalytic Products

Chemical Formula: C_{15}H_{16}O_{2}
Exact Mass: 228.1

ChemLab Technologies - GC/MS Report

Data File: 0131-5568WT-I
Current Data Path: E:GCMS Data/ChemLab
Sample ID: 7
Operator: W. T
Run Time(min): 14.10
Vial: 5
Scans: 4148
High Mass(m/z): 400
Sample Weight: 0.00
Calibration Level: E:GCMS Methods/ChemLab/CLT
Instrument Method: E:GCMS Data/ChemLab
Current Processing Method: N/A
Calibration File: N/A

Method type: Acquisition - General
MS transfer line temperature: 270 °C
Ion source temperature: 220 °C
Use acquisition threshold: No
Ionization mode: EI
Run completion: GC run time
Segment #1: 3 min
Start time:
Filament/multiplier/dynode on: Yes
Chromatography filter on: Yes
Chrom, filter peak width time: 1 sec
Use tune file emission current: Yes
Use last tuned detector gain: Yes
Use tune file electron energy: No
Electron energy: 70 eV
Calibration gas: Off
Scan #1: (Last Saved)
Ion polarity: Positive
Data type: centroid
Start mass: 50 amu
End mass: 400 amu
Scan time: 0.2 sec
### ChemLab Technologies - GC/MS Report

| Parameter                        | Value                  |
|----------------------------------|------------------------|
| Data File                        | 0131-5568WT-2          |
| Current Data Path                | E:GCMS Data/ChemLab    |
| Sample ID                        | 7                      |
| Operator                         | W, T                   |
| Run Time (min)                   | 15.58                  |
| Valve                            | 5                      |
| Scans                            | 4582                   |
| High Mass (m/z)                  | 400                    |
| Sample Weight                    | 0.00                   |
| Instrument Method                | E:GCMS Methods/ChemLab/CLT |
| Current Processing Method        | N/A                    |
| MS transfer line temperature     | 270 °C                 |
| Ion source temperature           | 220 °C                 |
| Use acquisition threshold        | No                     |
| Ionization mode                  | EI                     |
| Run completion                   | GC run time            |
| Start time                       | 2.5 min                |
| Filament/multiplier/dynode on    | Yes                    |
| Chromatography filter on         | Yes                    |
| Chrom. filter peak width time    | 1 sec                  |
| Use tune file emission current   | Yes                    |
| Use last tuned detector gain     | Yes                    |
| Use tune file electron energy    | No                     |
| Electron energy                  | 70 eV                  |
| Calibration gas                  | Off                    |
| Scan #1                           | (Last Saved)           |
| Tune file                        | Positive               |
| Data type                        | Centroid               |
| Start mass                       | 50 amu                 |
| End mass                         | 400 amu                |
| Scan time                        | 0.2 sec                |

Chemical Formula: C₇H₁₈S
Exact Mass: 174.1
ChemLab Technologies - GC/MS Report

Data File: 0131-5568WT-3
Current Data Path: E:/GCMS Data/ChemLab
Sample ID: 7
Operator: W. T
Run Time(min): 15.60
Visk: 5
Scans: 4588
High Mass(m/z): 400
Sample Weight: 0.00
Calibration Level: E/GCMS Methods/ChemLab/CLT
Instrument Method: E/GCMS Methods/ChemLab/CLT
Current Processing Method: N/A
Original Data Path: E/GCMS Data/ChemLab
Sample Type: Unknown
Sample Name:
Acquisition Date: 02/03/19 02:20:13 AM
Comments:
Injection Volume(μl): 10.00
Low Mass(m/z): 50
Sample Volume(μl): 0.00
ETD Amount: 0.000
Dilution Factor: 1.00
Calibration File: N/A

Method type: Acquisition - General
MS transfer line temperature: 270 °C
Ion source temperature: 220 °C
Use acquisition threshold: No
Ionization mode: ESI
Run completion: GC run time
Segment #1: Start time: 2.5 min
Filament/multiplier/dynode on: Yes
Chromatography filter on: Yes
Use tune file emission current: Yes
Use last tuned detector gain: Yes
Use tune file electron energy: No
Electron energy: 70 eV
Calibration gas: Off
Scan #1: Tune file: (Last Saved)
Ion polarity: Positive
Data type: Centroid
Start mass: 50 amu
End mass: 400 amu
Scan time: 0.2 sec

[Graphs and charts showing chromatogram and mass spectrum]
ChemLab Technologies - GC/MS Report

Data File: 0131-5568WT-4
Current Data Path: E:\GCMS Data\ChemLab
Sample ID: 7
Operator: W. T
Run Time (min): 15.59
Vial: 5
Scans: 4884
High Mass (m/z): 400
Sample Weight: 0.00
Calibration Level: E:\GCMS Methods\ChemLab\CLT
Instrument Method: E:\GCMS Methods\ChemLab\CLT
Original Data Path: E:\GCMS Data\ChemLab
Sample Type: Unknown
Sample Name: Acquisition Date: 02/03/19 02:41:34 AM
Comments: Injection Volume (µl): 10.00
Low Mass (m/z): 50
Sample Volume (µl): 0.00
FSTD Amount: 0.000
Dilution Factor: 1.00
Calibration File: N/A

Method type: Acquisition - General
MS transfer line temperature: 270 °C
Ion source temperature: 220 °C
Use acquisition threshold: No
Ionization mode: EI
Run completion: GC run time
Segment #1:
Start time: 2.5 min
Filament/multiplier/dynode on: Yes
Chromatography filter on: Yes
Chrom. filter peak width time: 1 sec
Use tune file emission current: Yes
Use last tuned detector gain: Yes
Use tune file electron energy: No
Electron energy: 70 eV
Calibration gas: Off
Scan #1:
Tune file: (Last Saved)
Ion polarity: Positive
Data type: Centroid
Start mass: 50 amu
End mass: 400 amu
Scan time: 0.2 sec

Chemical Formula: C_9H_2O
Exact Mass: 254.2
ChemLab Technologies - GC/MS Report

Data File: 0131-5568WT-5  Original Data File: E:GCMS Data/ChemLab
Current Data Path: E:GCMS Data/ChemLab  Sample Type: Unknown
Sample ID: 7  Sample Name: 02/03/19 03:03:00 AM
Run Time(min): 15.60  Comments: Injection Volume(µl): 10.00
Vial: 5  Low Mass(m/z): 50
Scans: 4589  Sample Volume(µl): 0.00
High Mass(m/z): 400  ISTD Amount: 0.000
Sample Weight: 0.00  Calibration Level: Dilution Factor: 1.00
Method: E:GCMS Methods/ChemLab/CLT  Original Processing Method: N/A
Current Processing Method: N/A  Calibration File: N/A

Method type: Acquisition - General
MS transfer line temperature: 270 °C
Ion source temperature: 220 °C
Use acquisition threshold: No
Ionization mode: EI
Run completion: GC run time
Segment #1:
Start time: 2.3 min
Filament/multiplier/dynode on: Yes
Chromatography filter on: Yes
Chrom. filter peak width time: 1 sec
Use last tuned detector gain: Yes
Use tune file electron energy: No
Electron energy: 70 eV
Calibration gas: Off
Scan #1:
Tune file: (Last Saved)
Ion polarity: Positive
Data type: Centroid
Start mass: 50 amu
End mass: 400 amu
Scan time: 0.2 sec
ChemLab Technologies - GC/MS Report

Data File: 0131-5568WT-6
Current Data Path: E:\GCMS Data\ChemLab
Sample ID: 7
Operator: W. T.
Run Time(min): 15.60
Vial: 5
Scans: 4589
High Mass(m/z): 400
Sample Weight: 0.00
Calibration Level: E:\GCMS Methods\ChemLab\CLT
Instrument Method: N/A
Current Processing Method: N/A

Original Data Path: E:\GCMS Data\ChemLab
Sample Type: Unknown
Sample Name: 
Acquisition Date: 02/03/19 03:24:26 AM
Comments: 
Injection Volume(μl): 10.00
Low Mass(m/z): 50
Sample Volume(μl): 0.00
ISTD Amount: 0.000
Dilution Factor: 1.00
Calibration File: N/A

Method type: Acquisition - General
MS transfer line temperature: 270 °C
Ion source temperature: 220 °C
Use acquisition threshold: No
Ionization mode: EI
Run completion: GC run time
Segment #1:
Start time: 2.5 min
Filament/multiplier/dynode on: Yes
Chromatography filter on: Yes
Chrom. filter peak width time: 1 sec
Use tune file emission current: Yes
Use last tuned detector gain: Yes
Use tune file electron energy: No
Electron energy: 70 eV
Calibration gas: Off
Scan #1:
Tune file: (Last Saved)
Ion polarity: Positive
Data type: Centroid
Start mass: 50 amu
End mass: 400 amu
Scan time: 0.2 sec

RT: 11.16 - 12.44 SW 150
M1

RT: 11.77
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ChemLab Technologies - GC/MS Report

Data File: 0131-5568WT-7
Current Data Path: E:/GCMS Data/ChemLab
Sample ID: 7
Operator: W. T
Run Time(min): 10.25
Vial: 5
Scans: 3016
High Mass(n/za): 400
Sample Weight: 0.00
Calibration Level: 
Instrument Method: E/GCMS Methods/ChemLab/CLT
Current Processing Method: N/A
Calibration File: 

Method type: Acquisition - General
MS transfer line temperature: 270 °C
Ion source temperature: 220 °C
Use acquisition threshold: No
Ionization mode: E1
Run completion: GC run time

Segment #1:
Start time: 2.5 min
Filament/multiplier/dynode on: Yes
Chromatography filter on: Yes
Chrom. filter peak width time: 1 sec
Use tune file emission current: Yes
Use last tuned detector gain: Yes
Use tune file electron energy: No
Electron energy: 70 eV

Calibration gas: Off
Scan #1
 Tune file: (Last Saved)
Ion polarity: Positive
Data type: Centroid
Start mass: 50 amu
End mass: 400 amu
Scan time: 0.2 sec

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Chemical Formula: C_{18}H_{16}O
Exact Mass: 248.1