**Efficient Synthesis of 2-(Trimethylsilyl)phenyl Trifluoromethanesulfonate:
A Versatile Precursor to *ortho*-Benzyne**

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Materials and Methods. Unless stated otherwise, reactions were conducted in flame-dried glassware under an atmosphere of nitrogen using anhydrous solvents (either freshly distilled or passed through activated alumina columns). All commercially available reagents were used as received, with the exception of TMSCl (distilled over CaH₂) and TBSOTf (distilled). *N*-phenylbis(trifluoromethanesulfonimide) was obtained from Oakwood Products, Inc. Thin-layer chromatography (TLC) was conducted with EMD gel 60 F254 pre-coated plates (0.25 mm) and visualized using a combination of UV, anisaldehyde, iodine, and potassium permanganate staining. EMD silica gel 60 (particle size 0.040–0.063 mm) was used for flash column chromatography. ¹H NMR spectra (at 300 MHz, 400 MHz, or 500 MHz) are reported relative to deuterated solvent signals. Data for ¹H NMR spectra are reported as follows: chemical shift (δ ppm), multiplicity, coupling constant (Hz) and integration. ¹³C NMR spectra are reported in terms of chemical shift. IR data are reported in terms of frequency absorption (cm⁻¹).

**^1H NMR and ^{13}C NMR Spectra
for Compounds 15, 17, 2:**

Current Data Parameters
NAME kbb-76-1
EXPNO 1
PROCNO 1

F2 – Acquisition Parameters
Date_ 20080222
Time 10.31
INSTRUM arx500
PROBHD 5 mm broadband
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 715
DW 50.000 usec
DE 71.43 usec
TE 300.0 K
D1 2.00000000 sec
P1 11.00 usec
SFO1 500.1330008 MHz
NUCLEUS 1H

F2 – Processing parameters
SI 32768
SF 500.1300186 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Current Data Parameters
NAME kbb-76-1
EXPNO 2
PROCNO 1

F2 – Acquisition Parameters
Date_ 20080222
Time 10.46
INSTRUM arx500
PROBHD 5 mm broadband
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 0
SWH 35714.285 Hz
FIDRES 0.544957 Hz
AQ 0.9175540 sec
RG 45500
DW 14.000 usec
DE 20.00 usec
TE 300.0 K
D12 0.000200 sec
DL5 17.70 dB
CPDPRG waltz16
P31 100.00 usec
D1 2.0000000 sec
P1 6.80 usec
SFO1 125.7728999 MHz
NUCLEUS 13C
D11 0.0300000 sec

F2 – Processing parameters
SI 32768
SF 125.7577689 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Current Data Parameters
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EXPNO 1
PROCNO 1

F2 – Acquisition Parameters
Date_ 20080306
Time 21.27
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PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 8
DS 0
SWH 10000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 360
DW 50.000 usec
DE 71.43 usec
TE 300.0 K
D1 2.00000000 sec
P1 11.00 usec
SFO1 500.1330008 MHz
NUCLEUS 1H

F2 – Processing parameters
SI 32768
SF 500.1300192 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00