Supporting Information

A Convenient Method for Catalytic Aromatic Pentafluoroethylation Using Potassium (Pentafluoroethyl)trimethoxyborate

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General. All reactions were carried out under a nitrogen atmosphere in flame-dried glassware. Syringes which used to transfer anhydrous solvents or reagents were purged with argon prior to use. Most commercially supplied chemicals were purchased from commercial suppliers and used without further purification. THF was dried by reflux over sodium chips in the presence of benzophenone as an indicator. Analytical thin layer chromatography (TLC) was performed on an aluminum sheet of silica gel 60 F_{254} (Merck), which were visualized by the quenching of UV fluorescence (254 nm). Column chromatography was conducted on silica gel (Cica, 60-210 mesh, spherical, neutral). Nuclear magnetic resonance spectra were acquired on a JEOL JNM-ECS 400 (400 MHz for $^1$H and 376 MHz for $^{19}$F, respectively) spectrometers. $^1$H NMR spectra were recorded using tetramethylsilane as an internal standard ($\delta$ 0 ppm). $^{19}$F NMR spectra (376 MHz) were recorded using hexafluorobenzene (C$_6$F$_6$) as an internal standard ($\delta$ 0 ppm). Gas chromatogram mass spectrometer was recorded on Thermo TRACE DSQ.
1-Nitro-3-(pentafluoroethyl)benzene 2a

$^{1}H$ NMR Spectrum of Compound 2a

$^{19}F$ NMR Spectrum of Compound 2a
1-Nitro-4-(pentafluoroethyl)benzene 2b

$^1$H NMR Spectrum of Compound 2b

$^{19}$F NMR Spectrum of Compound 2b
1·Cyano·4-(pentafluoroethyl)benzene 2c

$^1$H NMR Spectrum of Compound 2c

$^{19}$F NMR Spectrum of Compound 2c
1-Butyl-4-(pentafluoroethyl)benzene 2d

$^1$H NMR Spectrum of Compound 2d

$^{19}$F NMR Spectrum of Compound 2d
1-Methoxy-4-(pentafluoroethyl)benzene 2e

$^{1}H$ NMR Spectrum of Compound 2e

$^{19}F$ NMR Spectrum of Compound 2e
2-(Pentafluoroethyl)quinoline \(2f\)

\(^1\)H NMR Spectrum of Compound \(2f\)

\(19\)F NMR Spectrum of Compound \(2f\)