In search of tetrafluoroborate anion: ^{19}F-NMR Chemical Shifts dependence of Substituents in tri-Aryl Pyrylium Cations

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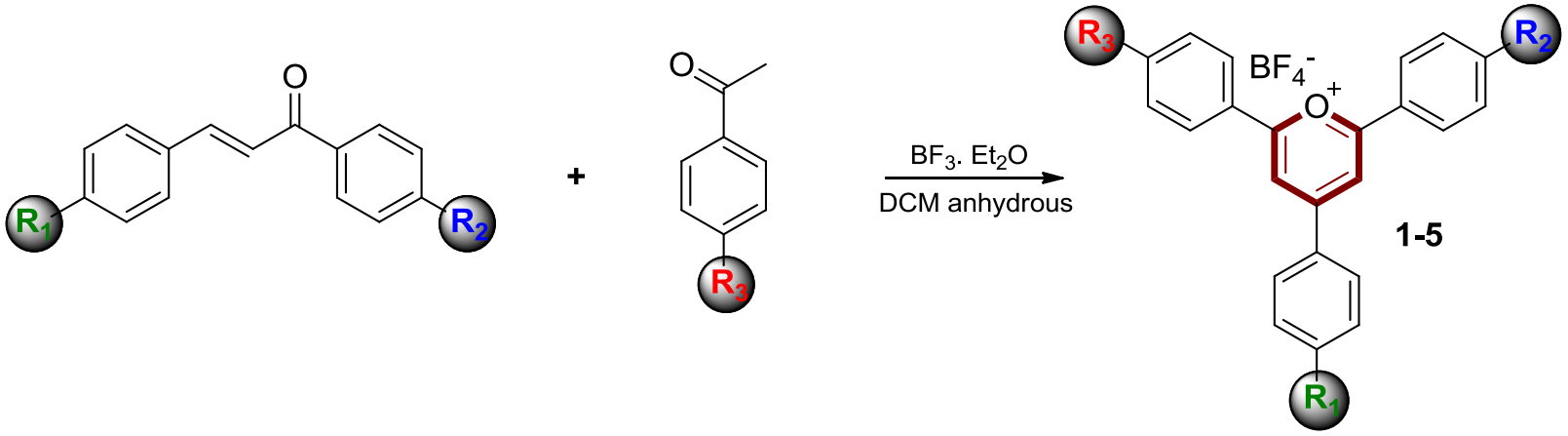
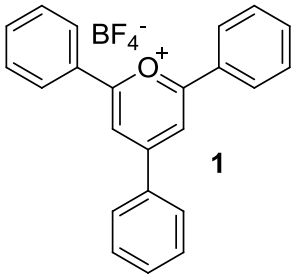


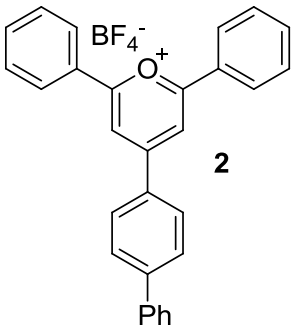
A study of tetrafluoroborate anion in compounds **1**-**5** by ^{19}F-NMR spectroscopy is performed

In search of tetrafluoroborate anion: ^{19}F-NMR Chemical Shifts dependence of Substituents in tri-Aryl Pyrylium Cations

1. Pyrylium Salts



1



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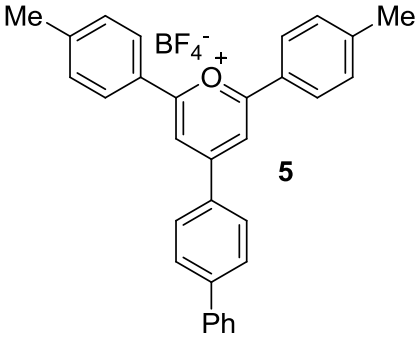
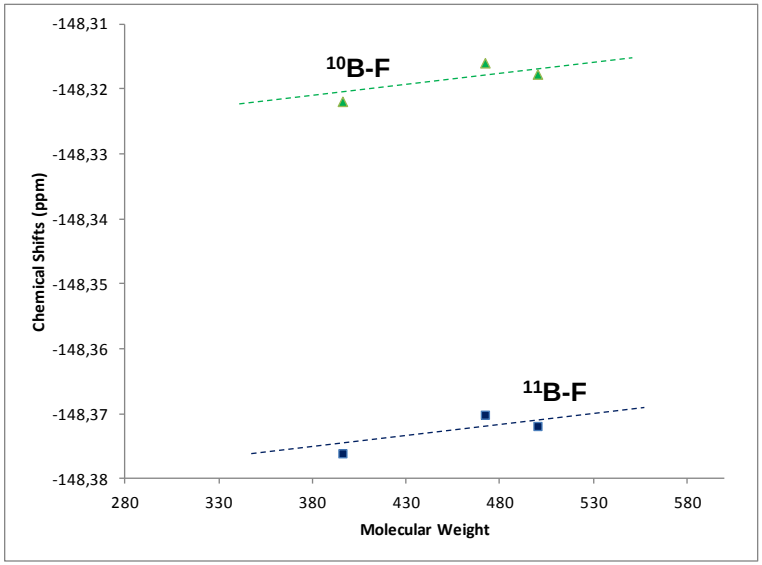


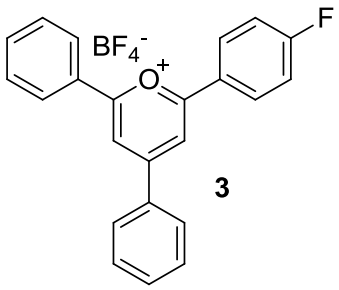
5

All new compounds were characterized by their IR, ^{1}H-NMR (500 MHz), ^{13}C-NMR (125.7 MHz), and HRMS spectral data.



Chemical Shifts vs. Mw for compds **1**, **2**, **5**

2. Pyrylium Salts with electronegative substituents



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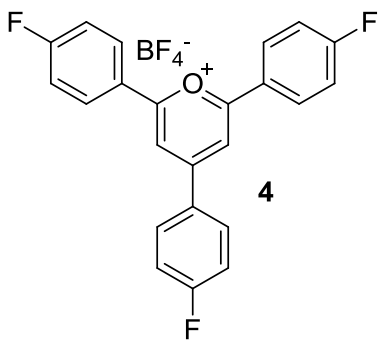
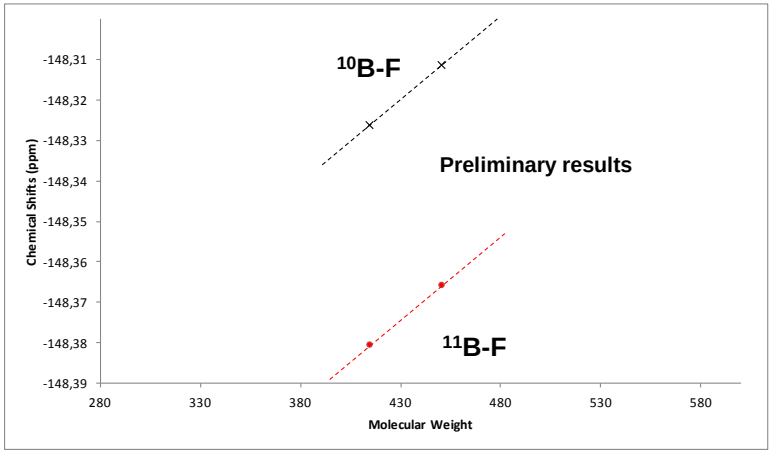


4

^{19}F-NMR spectra (500 MHz) were recorded with a Bruker Advance 500 spectrometer. Solvent: DMSO-d_6 with 0.1% TMS



Chemical Shifts vs. Mw for compds **3** and **4**