

Ionic liquids-assisted grinding: an electrophilic fluorination benchmark

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Experimental Section

¹H, ¹³C and ¹⁹F NMR spectra were recorded in CDCl₃ or acetone-*d*₆ on Bruker AV-300 spectrometers and chemical shifts are given in ppm relative to TMS and CFCl₃ respectively with C₆F₆ (¹⁹F, -162.9 ppm) or residual solvent signals (¹H, ¹³C) as secondary external standards. GC/MS spectra were recorded on an Agilent instrument operating at 70eV. High resolution mass spectra (HRMS) were measured using DFS instrument. IR spectra were recorded on Bruker Vector 22 spectrometer and UV-Vis spectra were recorded on Varian Cary 5000 spectrophotometer (lge is indicated in brackets). All reactants were obtained from commercial sources and used without further purification. Spectral data of products obtained were consistent with literature data. Mechanochemical experiments were carried out in a vibratory mortar grinder MLW KM1 equipped with an agate grinding ball 198 g, Ø52 mm. Experiments were carried out at 20-21°C and 50-55% Relative humidity (RH)



Figure S1. A. Vibratory mortar grinder MLW KM1 with grinding ball and reaction mixture. B. Sublimation setup. C. Final product