

Electronic Supplementary Information (ESI)

Acid Properties of Organosiliceous Hybrid Materials Based on Pendant (Fluoro)Aryl-Sulfonic Groups through Spectroscopic Study with Probe Molecules

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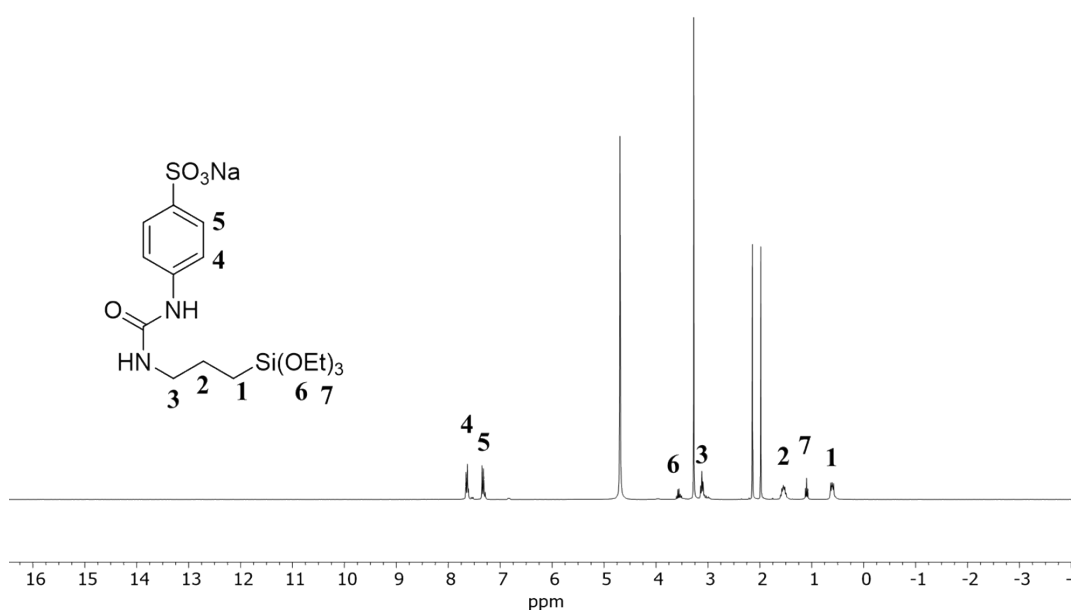


Figure S1. ¹H NMR spectrum of compound 2

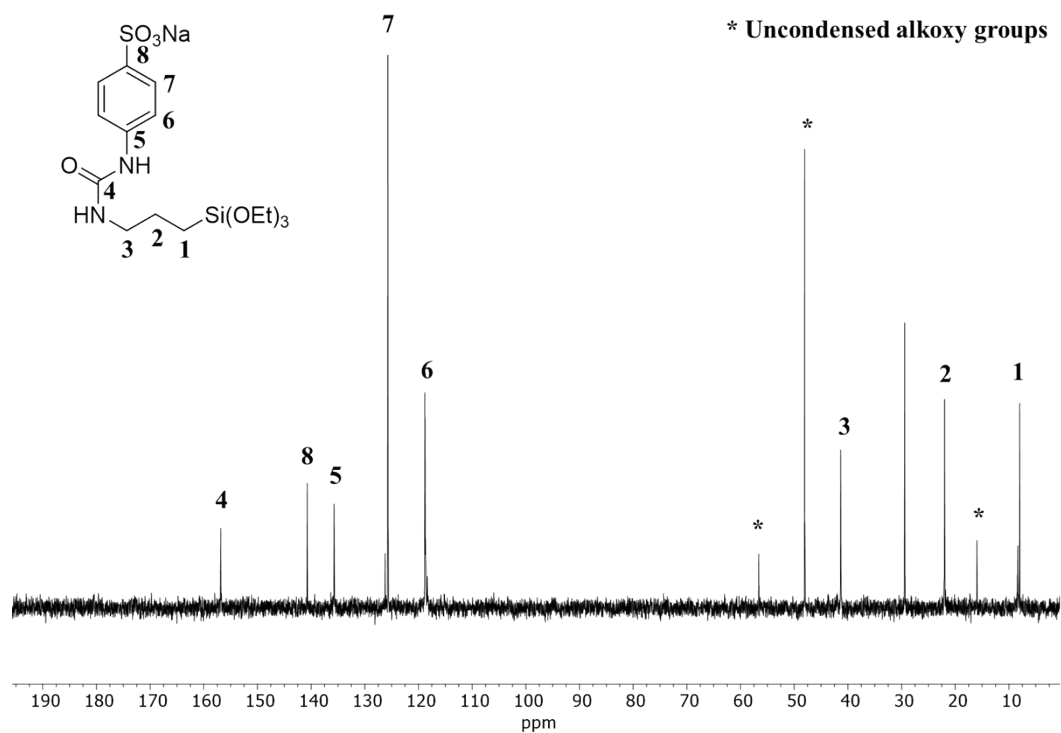


Figure S2. ^{13}C NMR spectrum of compound 2

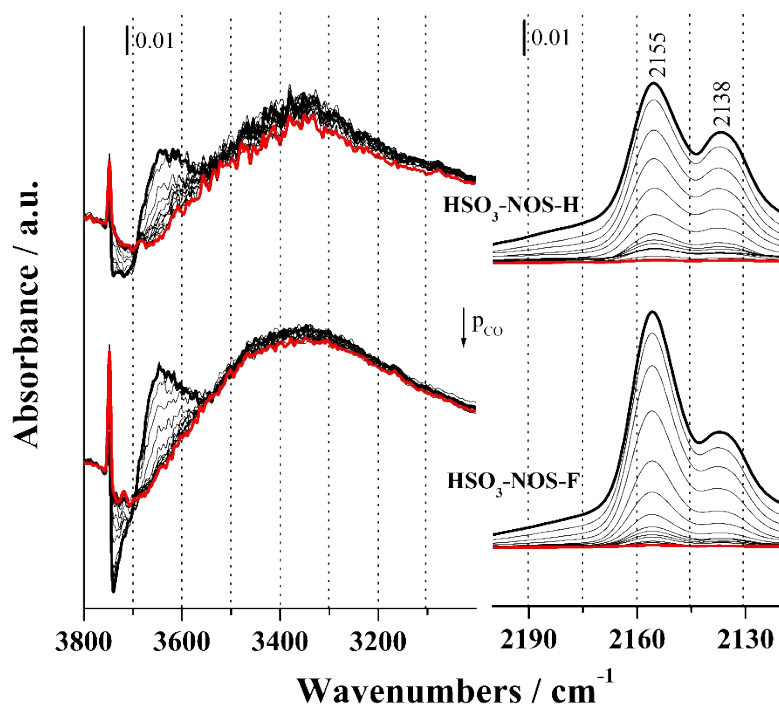


Figure S3. FTIR difference spectra in the OH (left panel) and CO (right panel) stretching region of CO adsorption at 80 K on $\text{HSO}_3\text{-NOS-H}$ and $\text{HSO}_3\text{-NOS-F}$.