

Supporting information for

Synthesis and characterization of partially fluorinated aerogels and xerogels from environmentally compatible precursors

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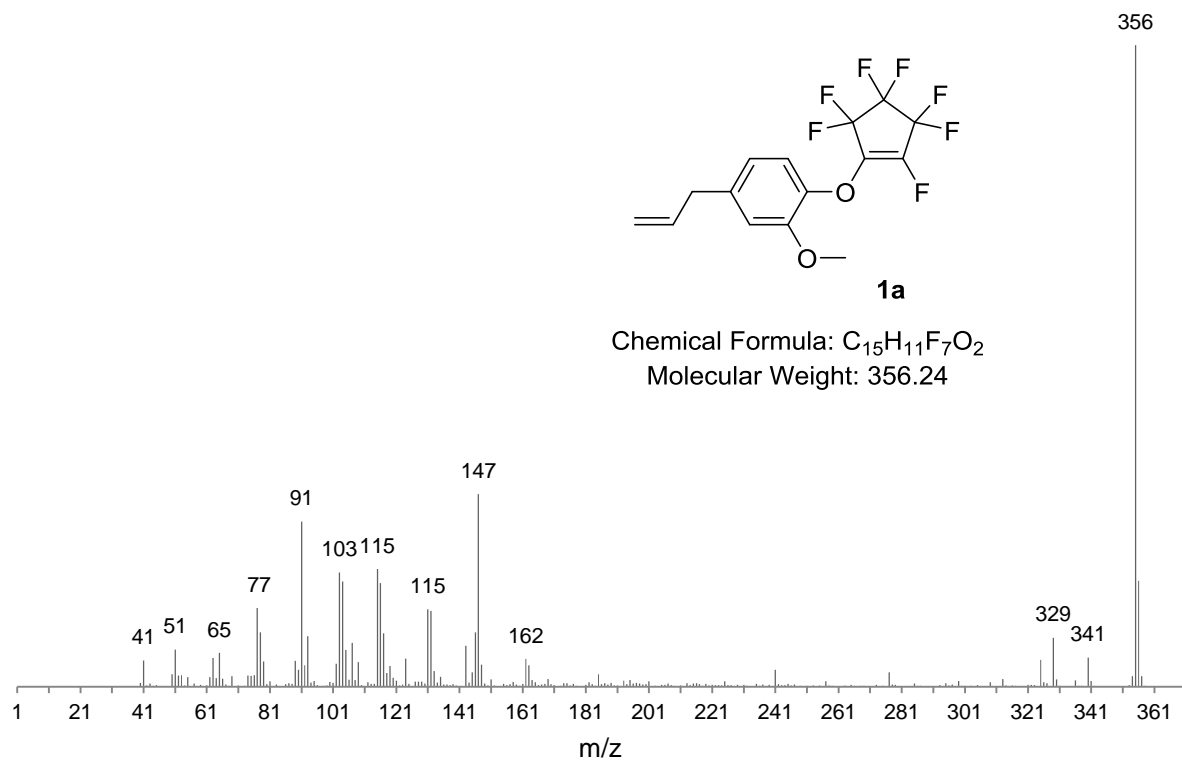


Fig. S1 Mass spectrum of intermediate compound, **1a**, generated in situ.

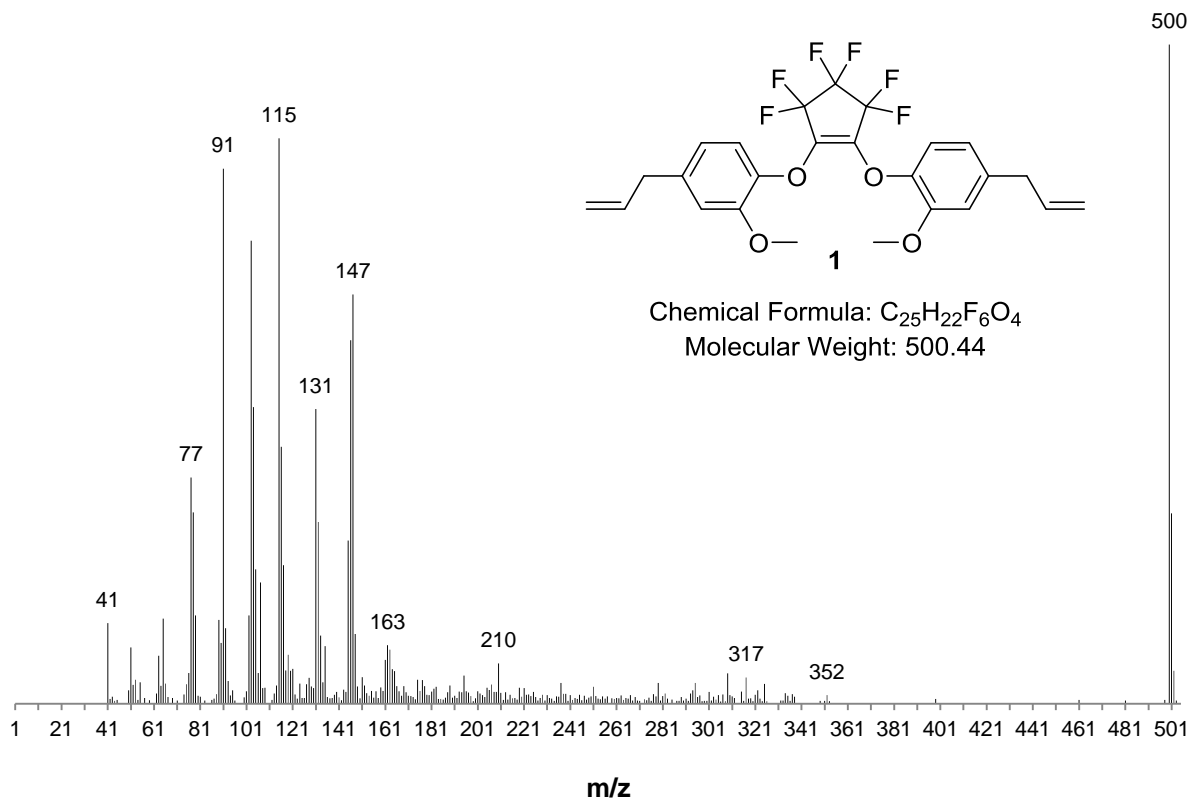


Fig. S2 Mass spectrum of **1**.

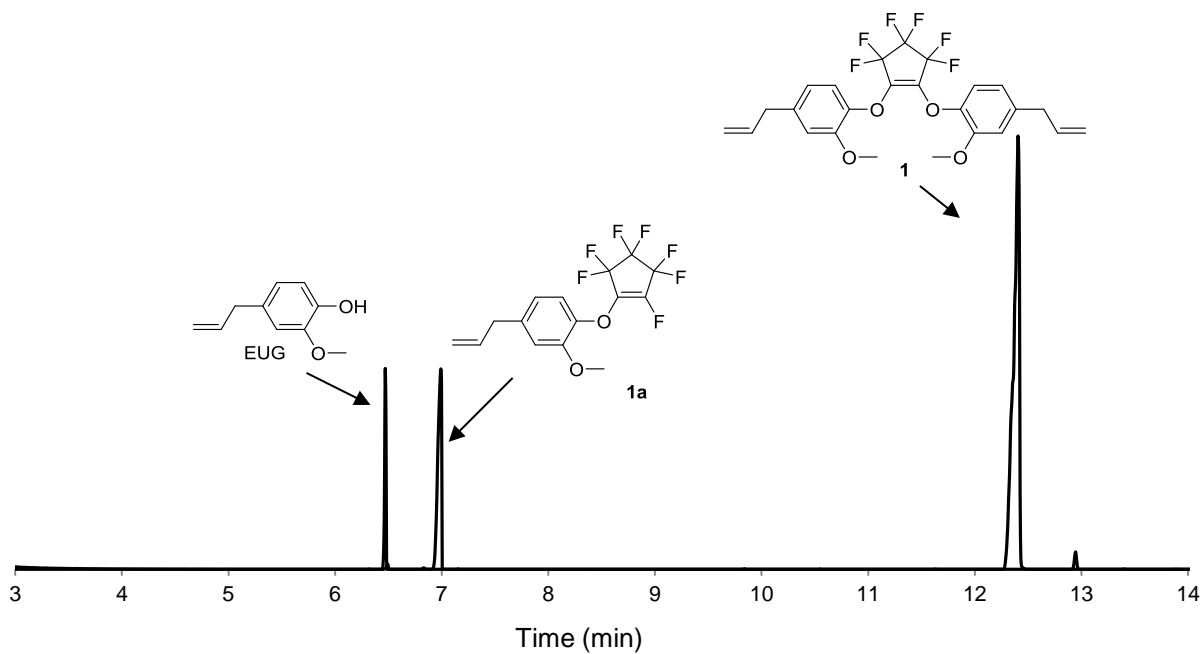


Fig. S3 GC chromatogram showing the conversion of eugenol and **1a** into **1**.

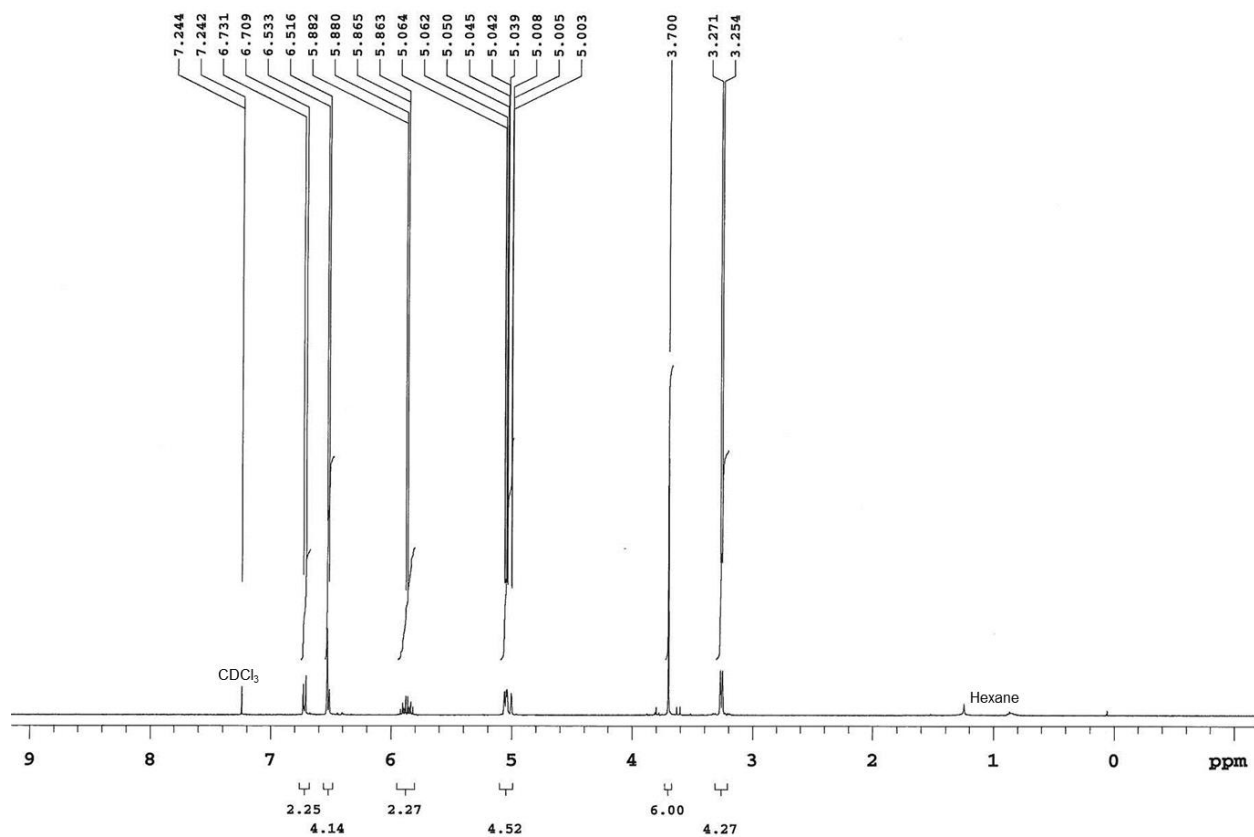


Fig. S4 ¹H NMR Spectrum (400 MHz, CDCl₃) of **1**.

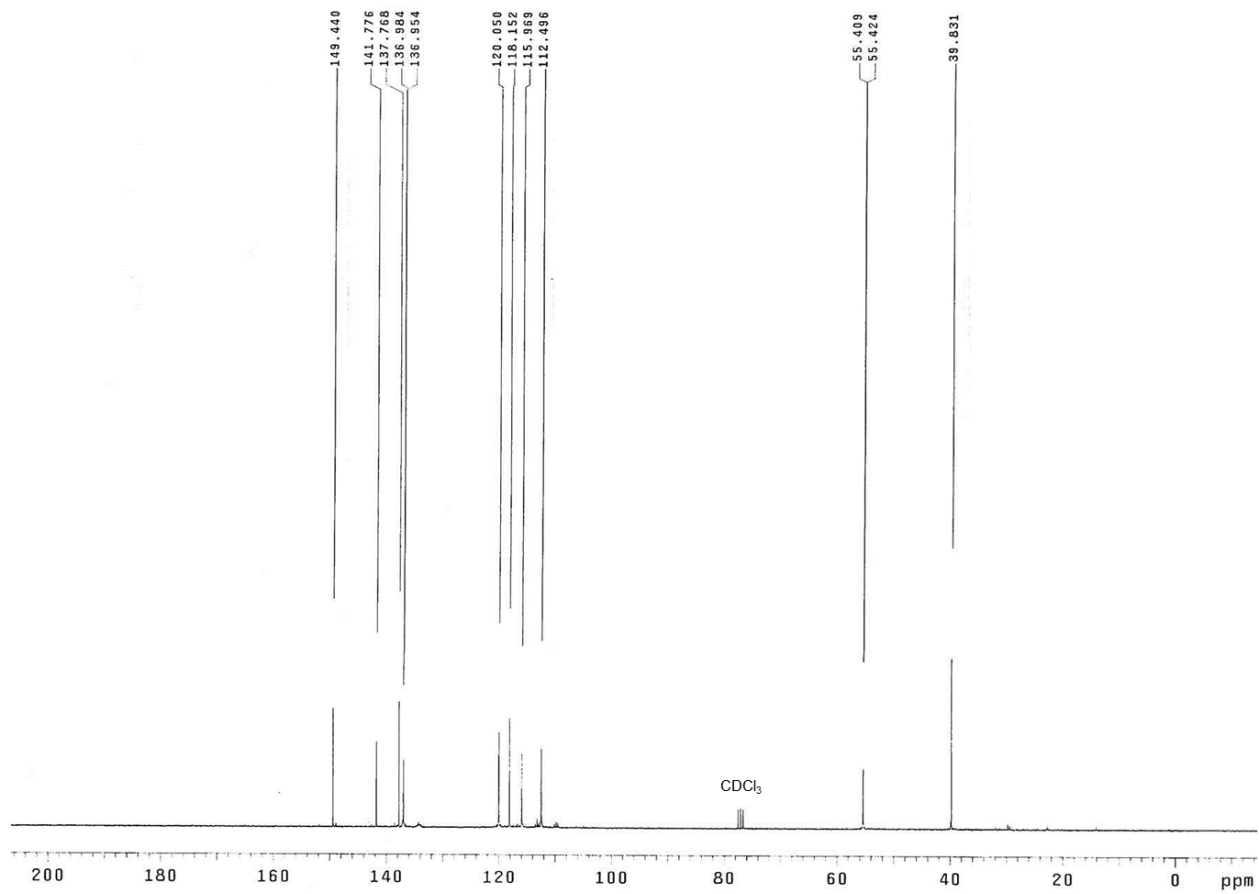


Fig. S5 ^{13}C NMR (75 MHz, CDCl_3) of **1**.

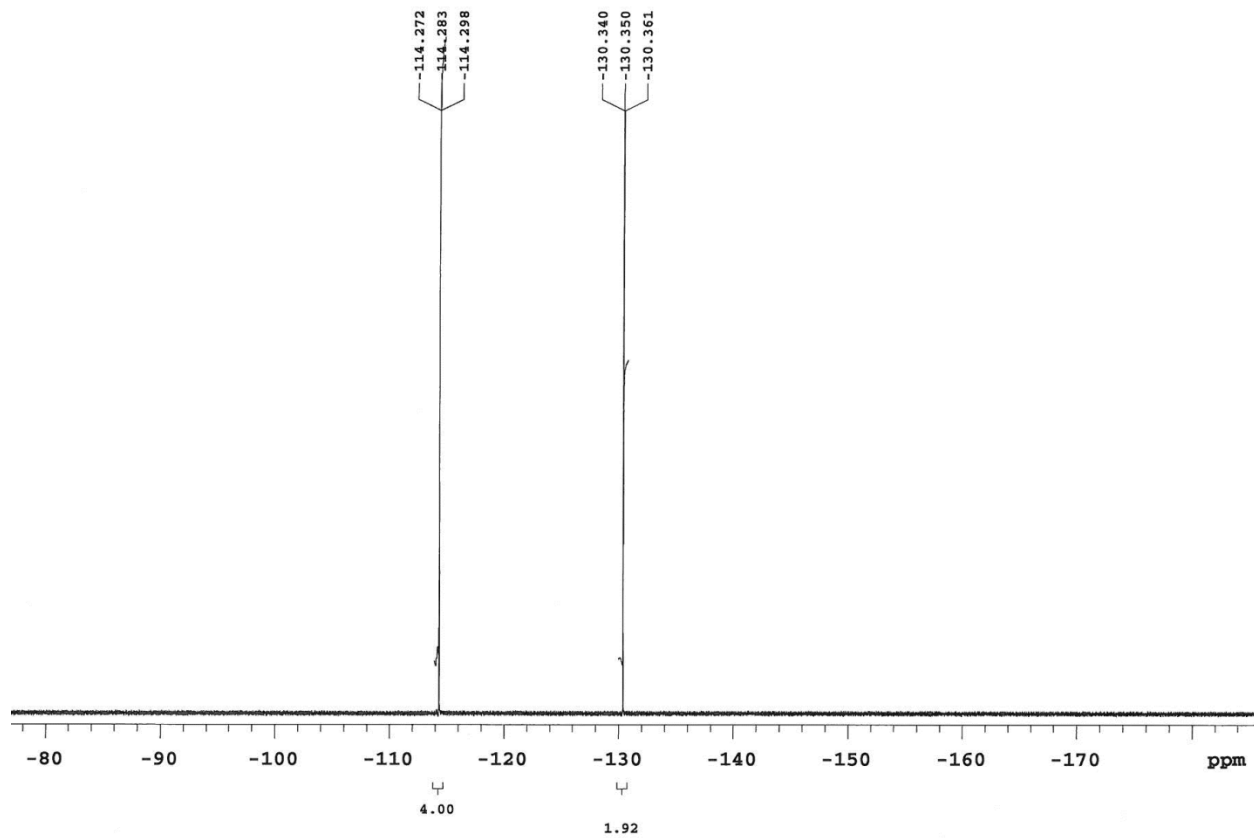


Fig. S6 ^{19}F NMR Spectrum (376 MHz, CDCl_3) of **1**.

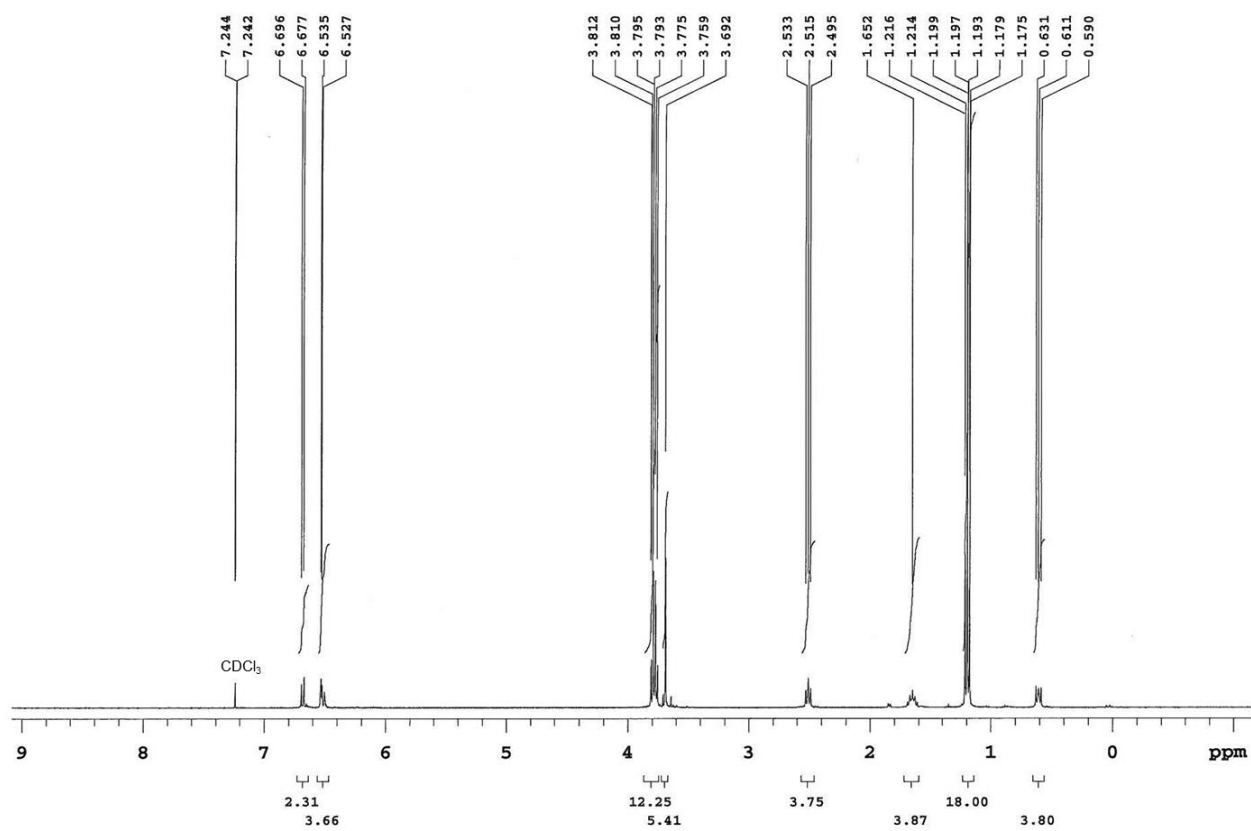


Fig. S7 ^1H NMR Spectrum (400 MHz, CDCl_3) of **2**.

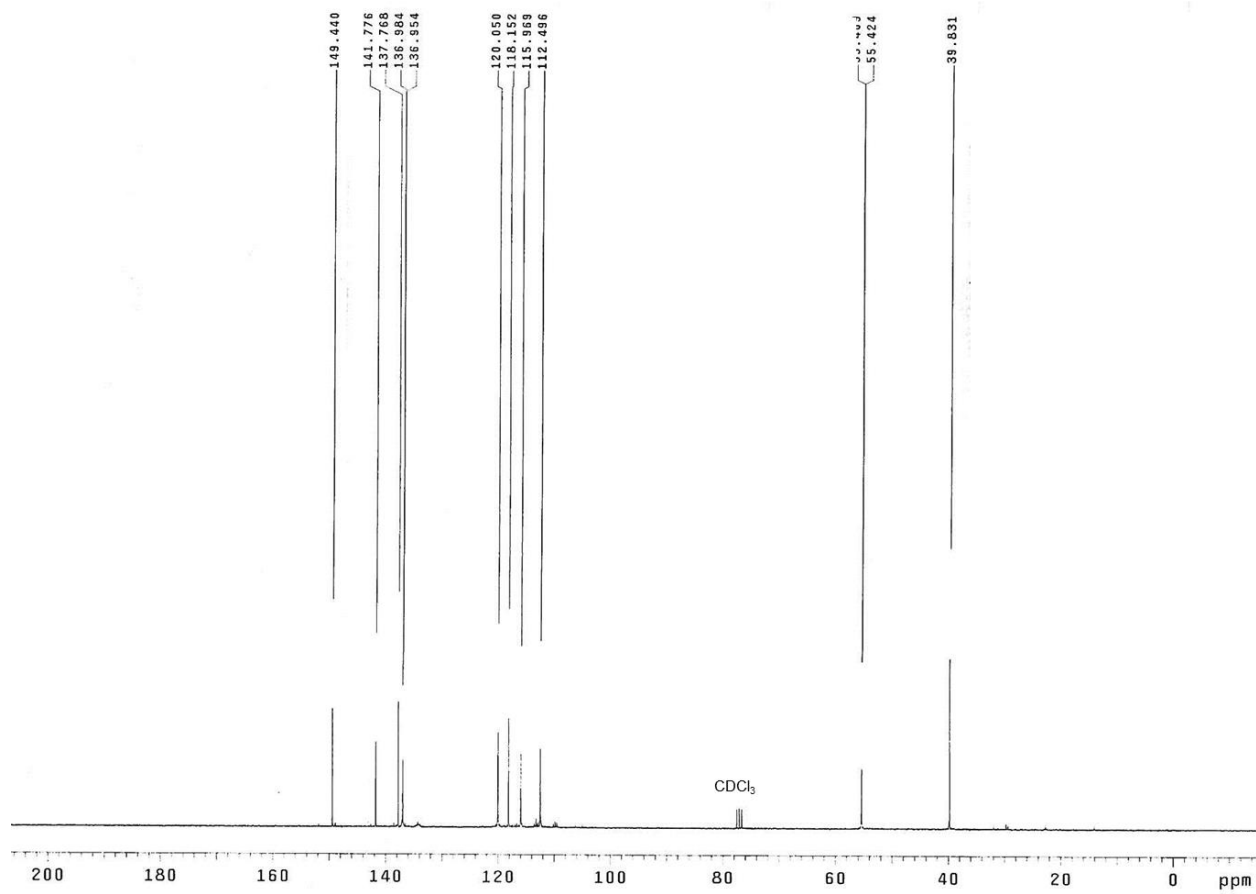


Fig. S8 ^{13}C NMR (75 MHz, CDCl_3) of **2**.

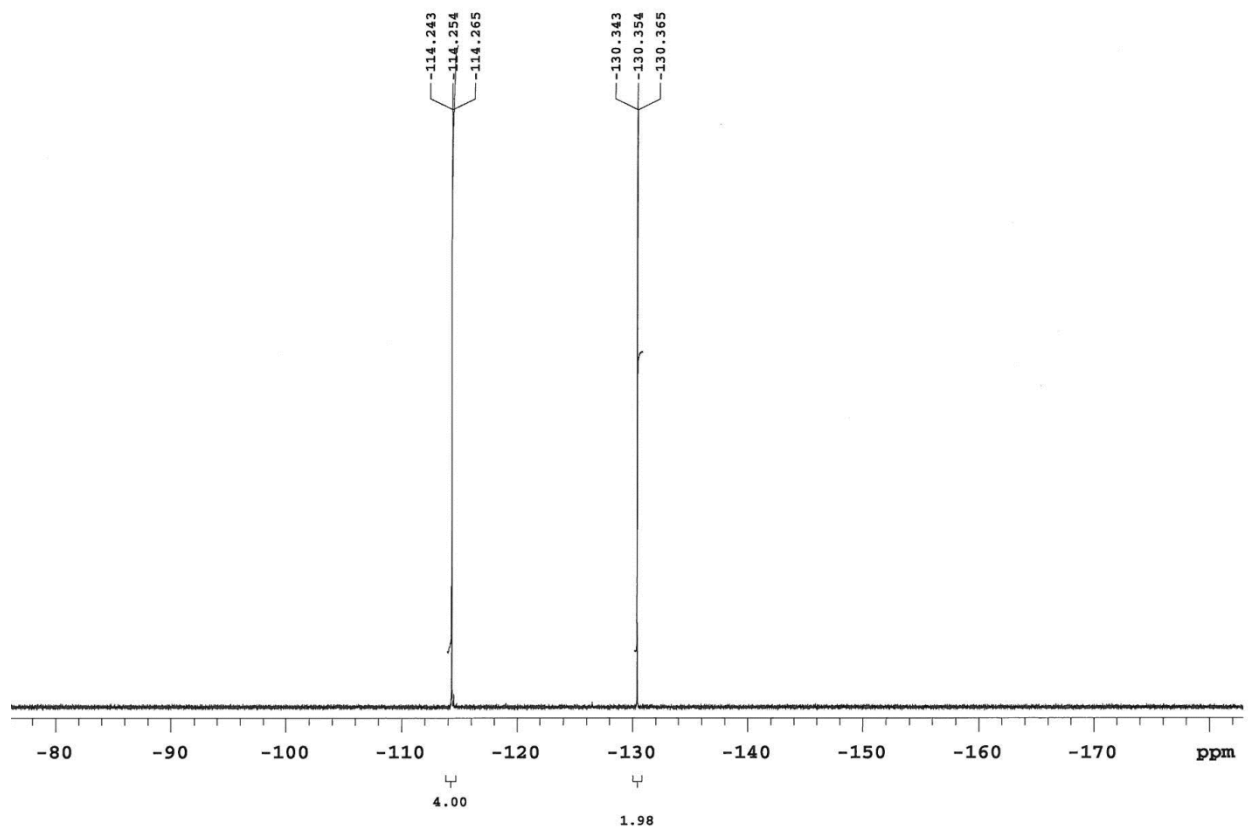


Fig. S9 ^{19}F NMR Spectrum (376 MHz, CDCl_3) of **2**.

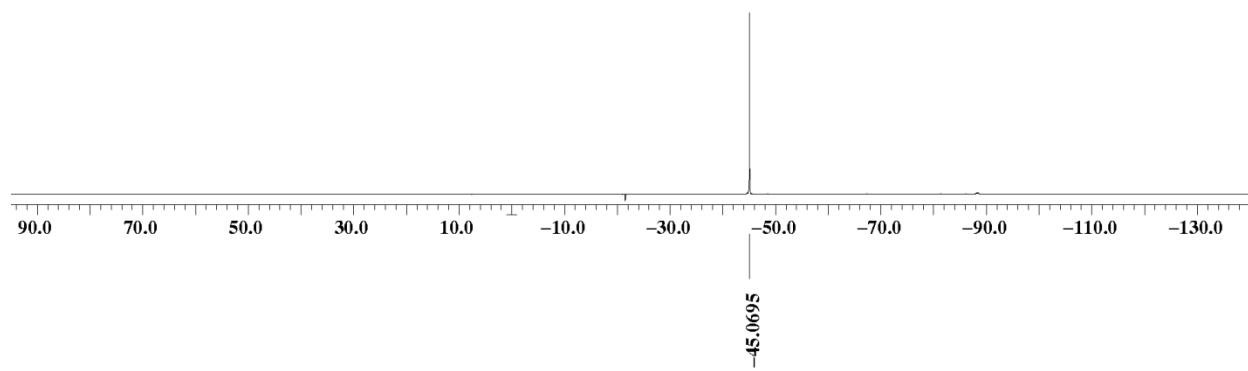


Fig. S10 ^{29}Si NMR Spectrum (99 MHz, CDCl_3) of **2**.

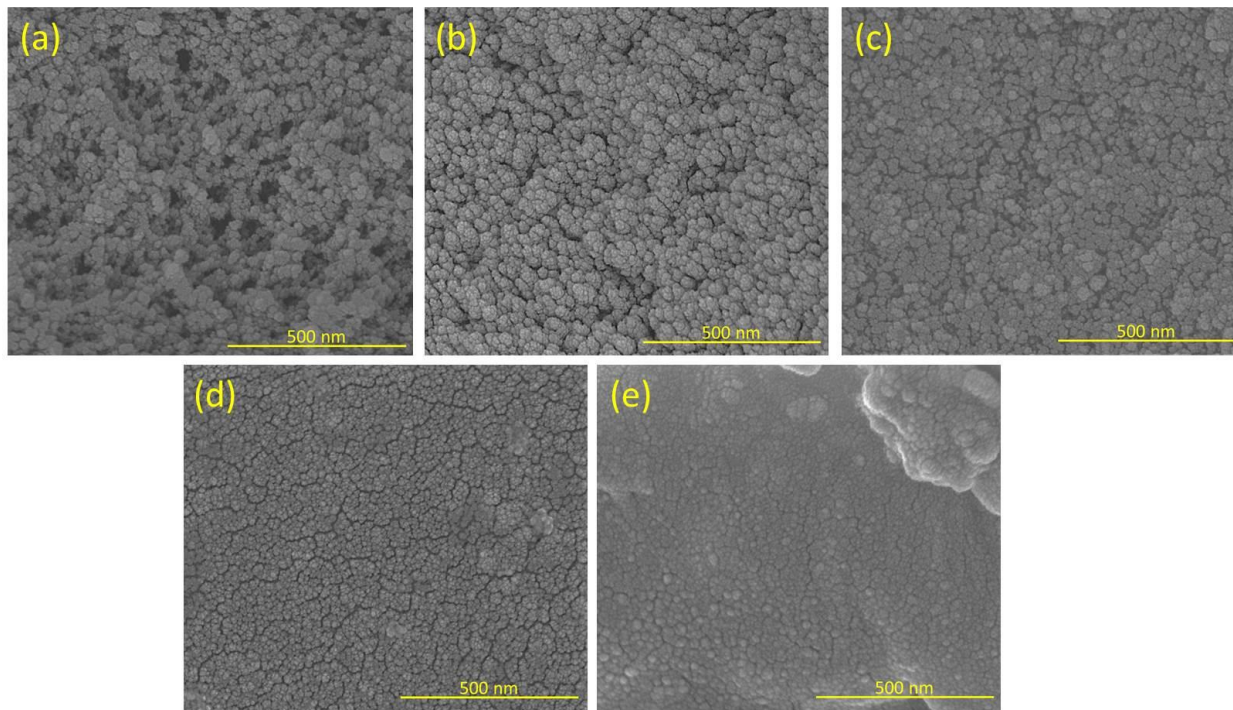


Fig. S11 SEM images of TEOS aerogels with (a) 0%, (b) 20%, (c) 30%, (d) 50%, and (e) 100% of **2**.

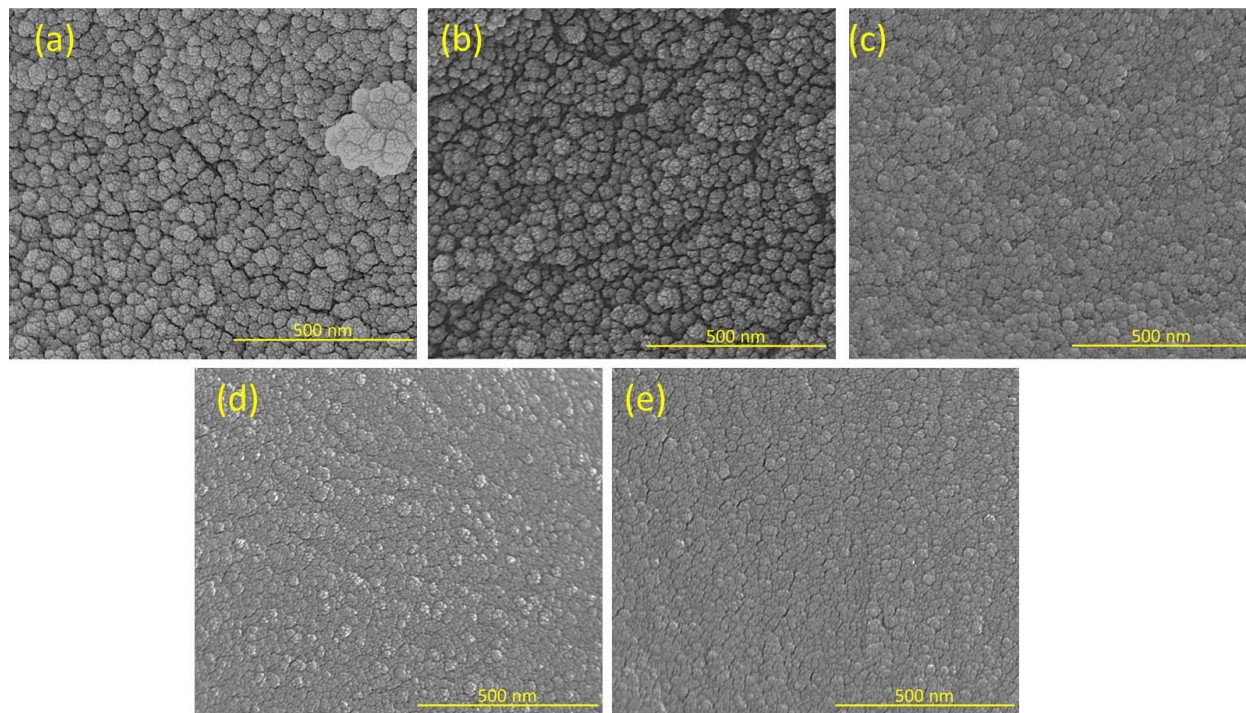
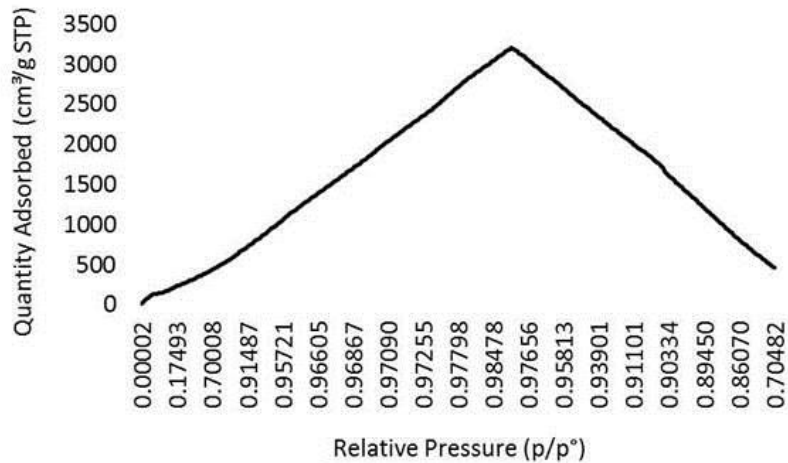
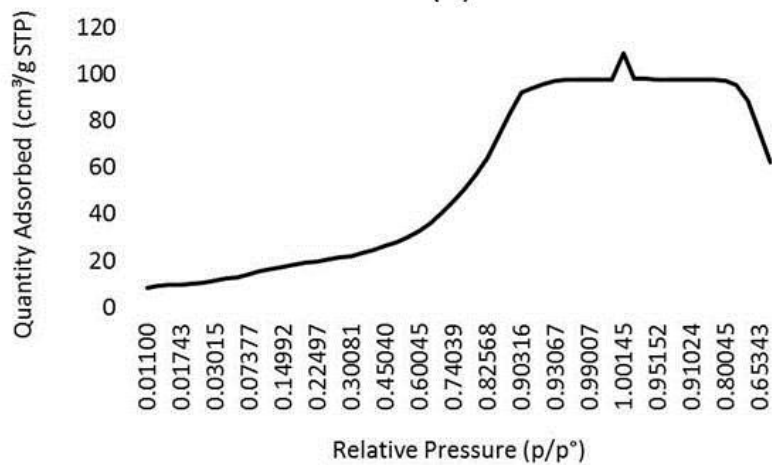


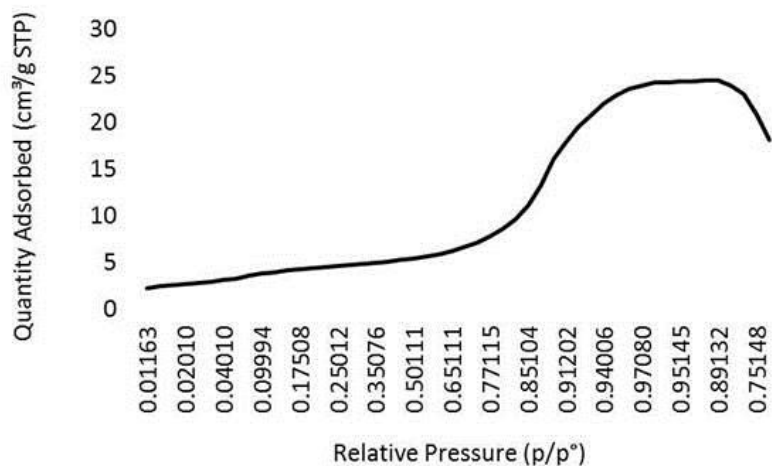
Fig. S12 SEM images of TEOS xerogels with (a) 0%, (b) 20%, (c) 30%, (d) 50%, and (e) 100% of **2**.



(a)



(b)



(c)

Fig. S13 BET plots used for average surface area of aerogels for (a) 0%, (b) 20%, and (c) 30% of 2.