

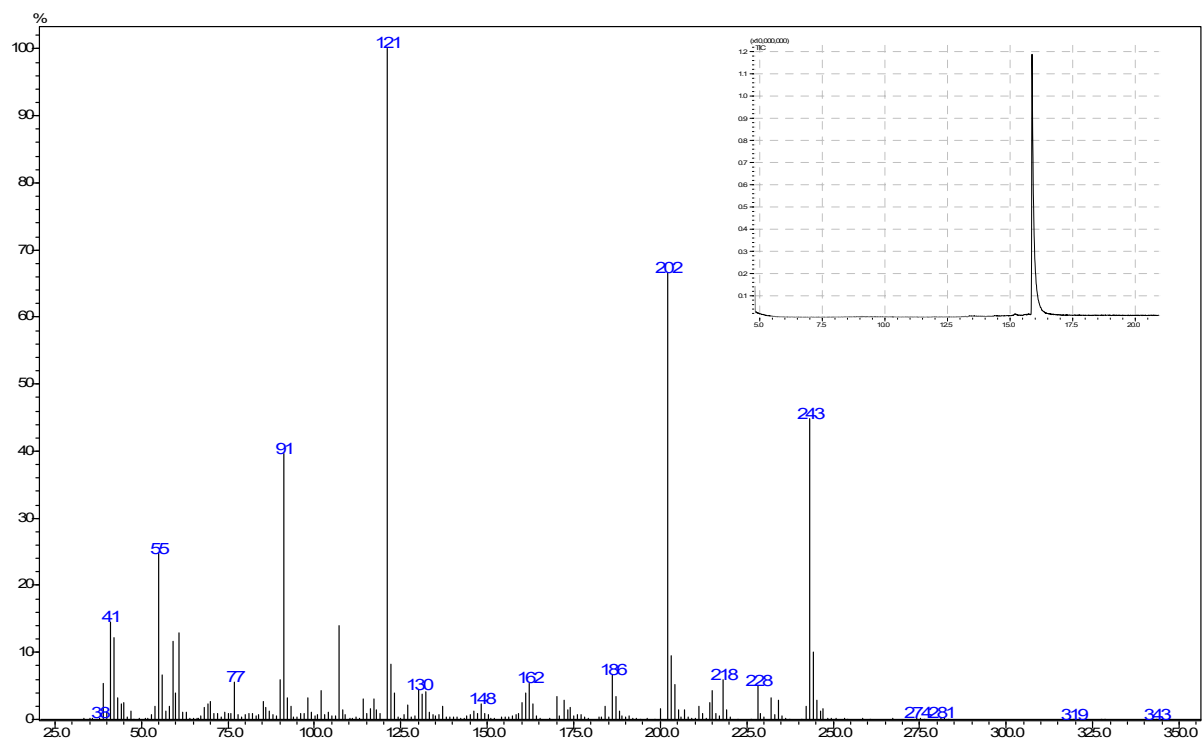
Synthesis, characterization and application prospects of novel soluble polysilsesquioxane bearing glutarimide side-chain groups

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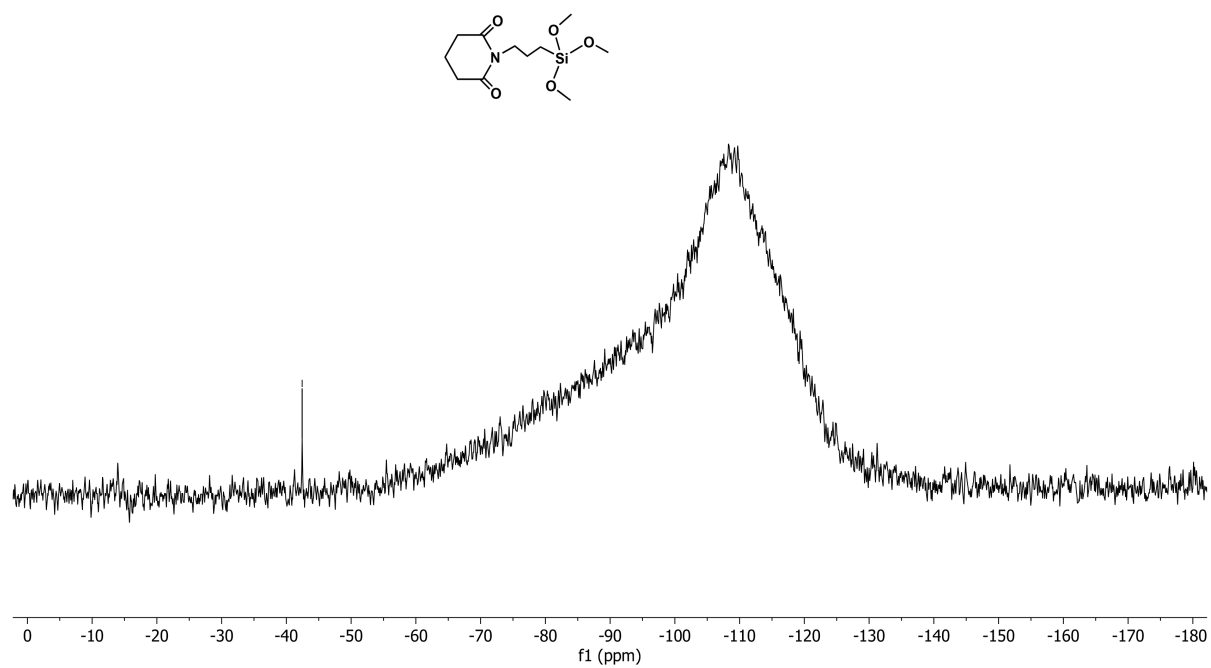
**Fig. S1.** MS spectrum of 1-[3-(trimethoxysilyl)propyl]piperidine-2,6-dione (1).

#### Mass Table

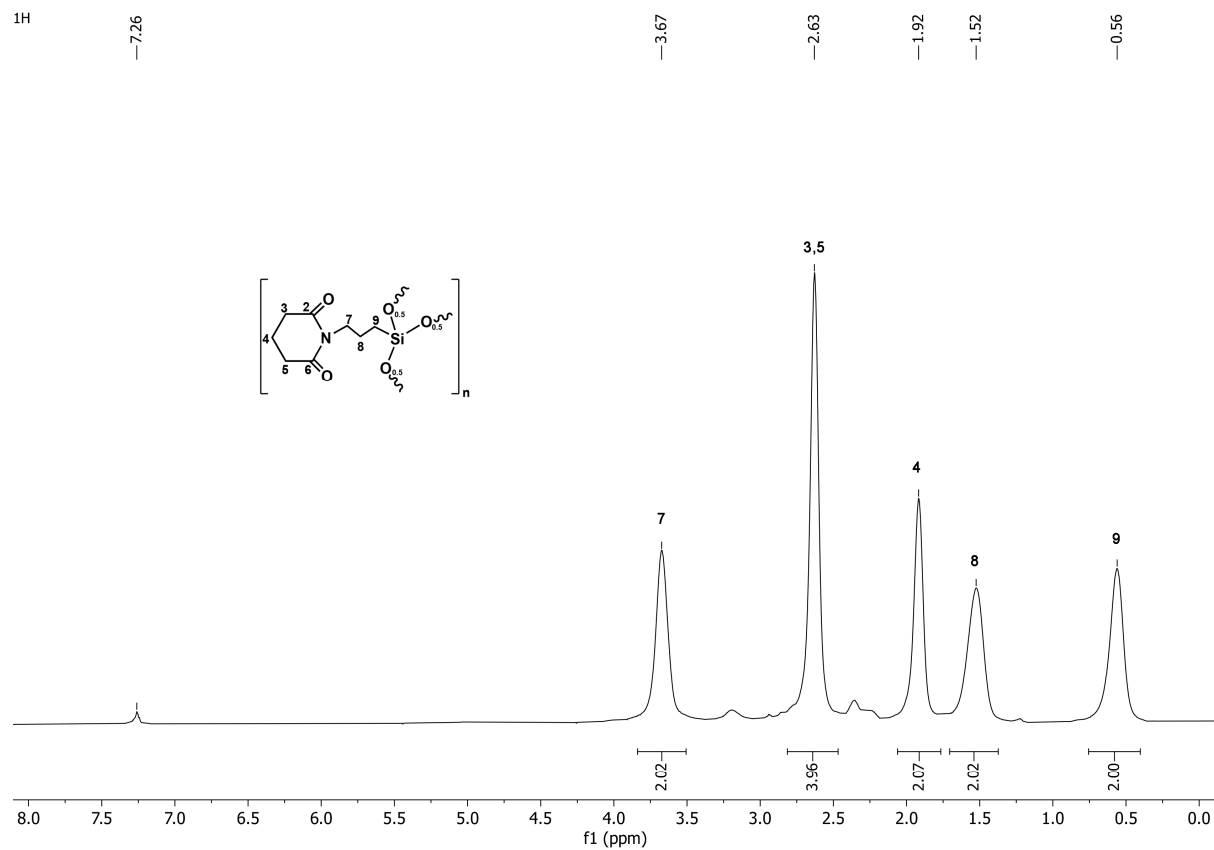
m/z	Abs. Inten.	Rel. Inten. (%)
275.30	1727	0.09
274.30	1985	0.11
121.10	1868571	100.00
202.10	1242311	66.48
243.15	839123	44.91
91.10	741797	39.70
61.00	242601	12.98
59.00	219466	11.75
244.15	187576	10.04
90.10	110115	5.89
77.05	102895	5.51
162.15	100079	5.36

<sup>29</sup>Si

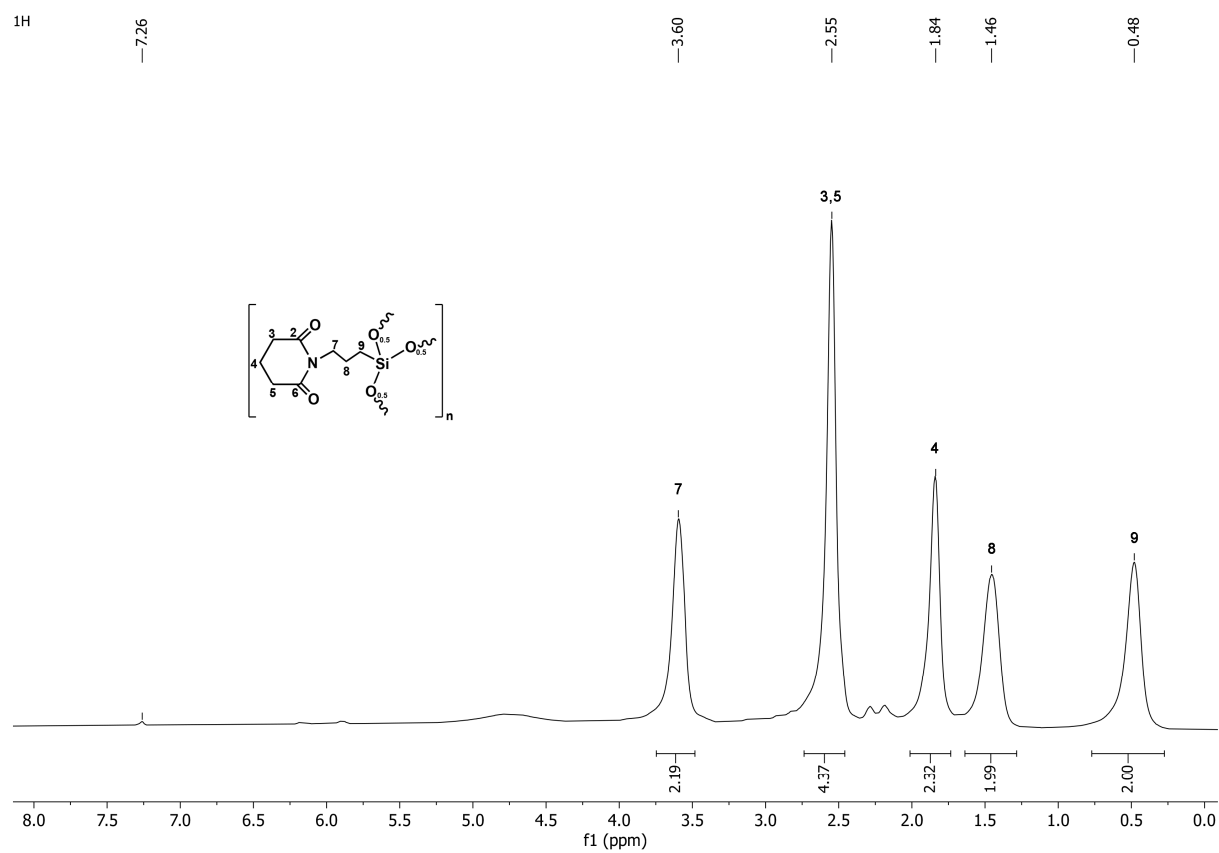
-42.44



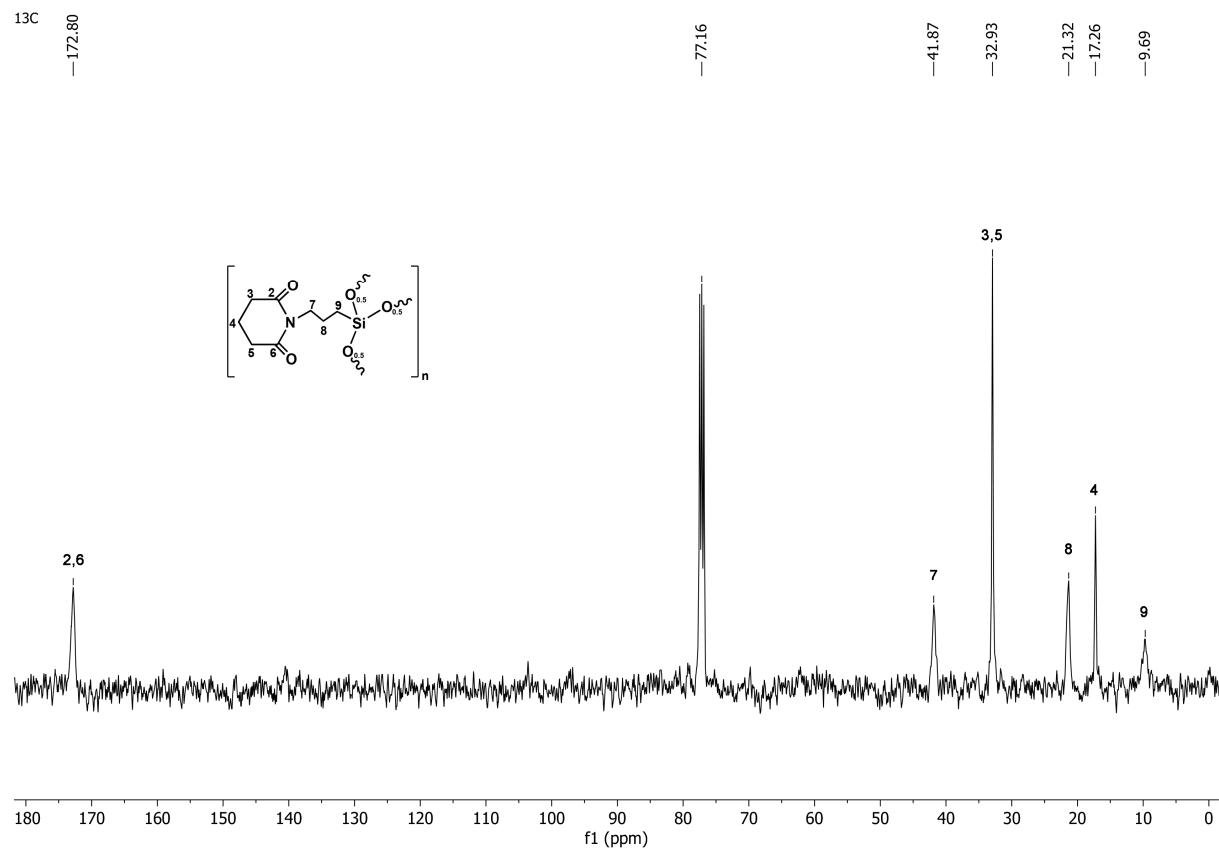
**Fig. S2.** <sup>29</sup>Si NMR spectrum of 1-[3-(trimethoxysilyl)propyl]piperidine-2,6-dione (1) in CDCl<sub>3</sub>.



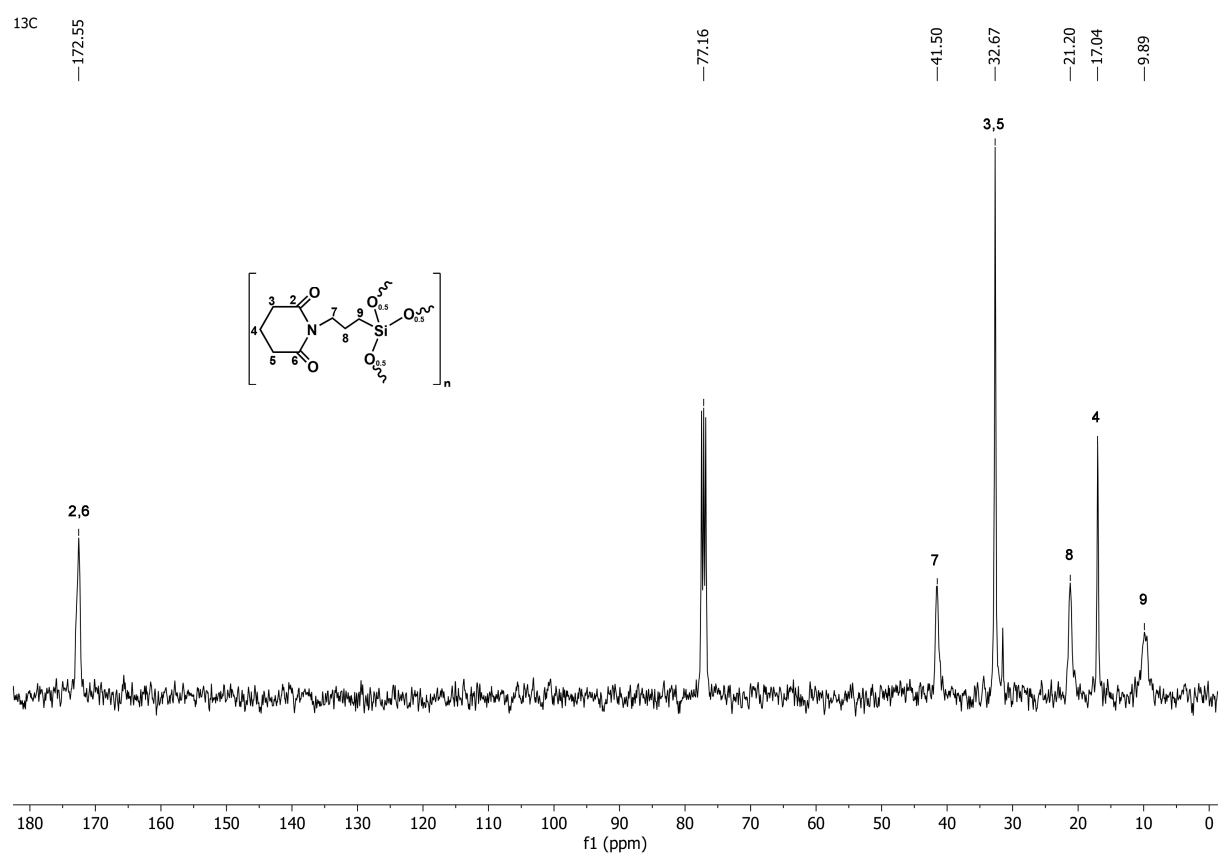
**Fig. S3.** <sup>1</sup>H NMR spectrum of 1-[3-(silsesquioxanyl)propyl]piperidine-2,6-dione (2b) in CDCl<sub>3</sub>.



**Fig. S4.** <sup>1</sup>H NMR spectrum of 1-[3-(silsesquioxanyl)propyl]piperidine-2,6-dione (2c) in CDCl<sub>3</sub>.



**Fig. S5.** <sup>13</sup>C NMR spectrum of 1-[3-(silsesquioxanyl)propyl]piperidine-2,6-dione (2b) in CDCl<sub>3</sub>.



**Fig. S6.** <sup>13</sup>C NMR spectrum of 1-[3-(silsesquioxanyl)propyl]piperidine-2,6-dione (2c) in CDCl<sub>3</sub>.