

# **Influence of side-chains interactions on the self-assembly of discotic tricarboxyamides: A crystallographic insight†**

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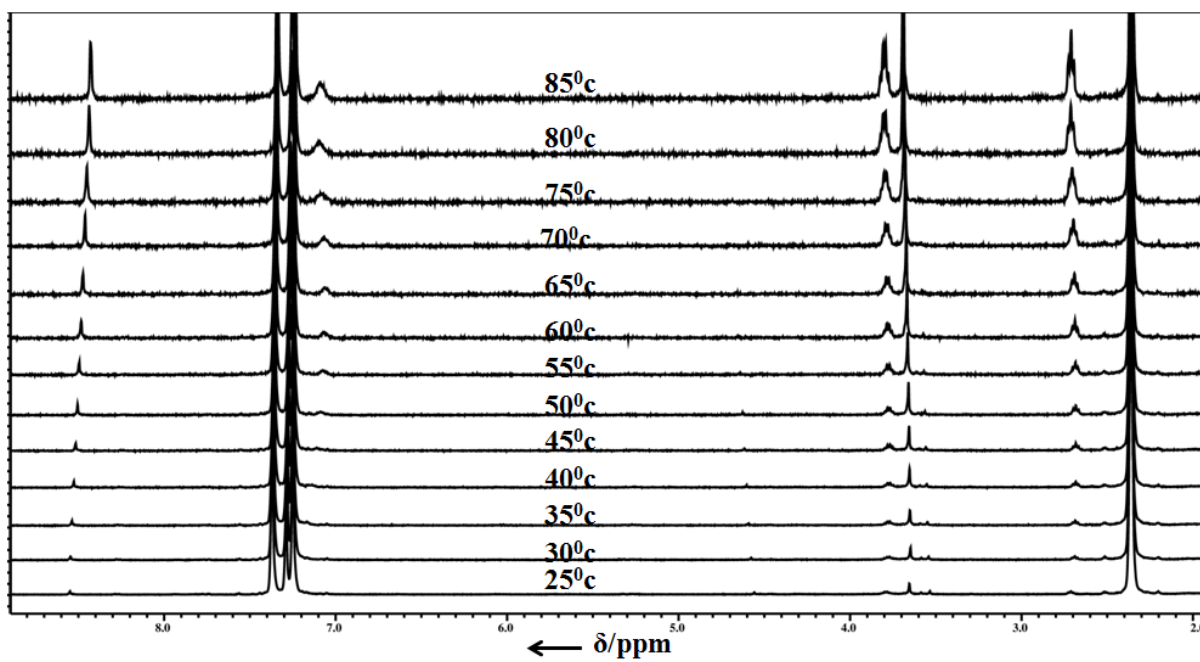
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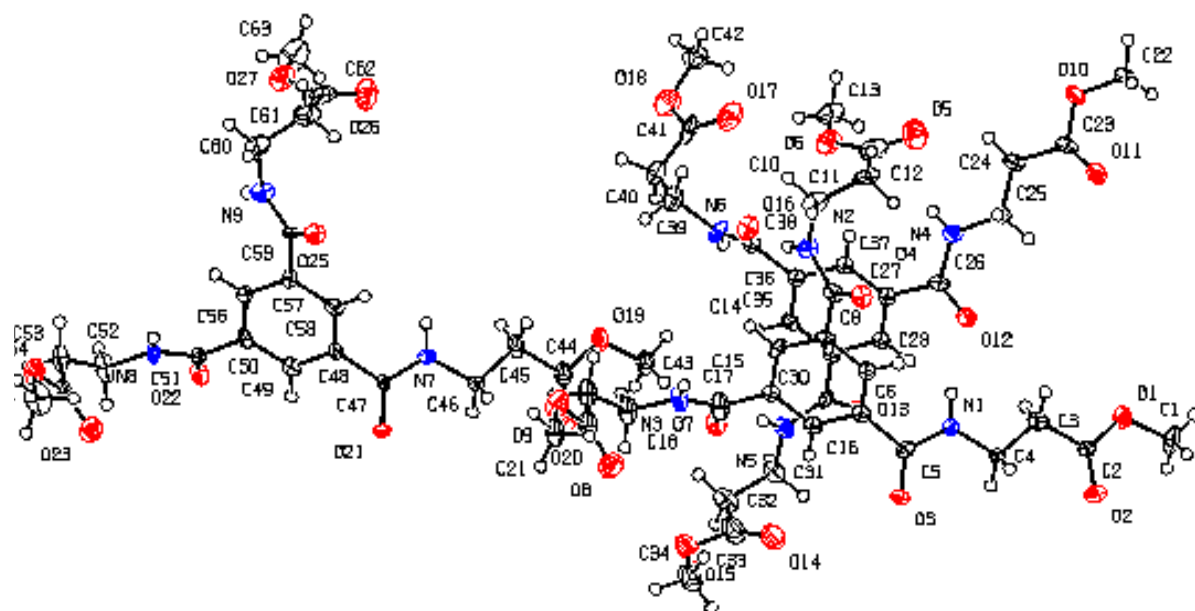
Table-1: Geletion study

Solvents	Compound-1 (mg/ml)	Compound-2 (mg/ml)
Toluene	P (27.5mg)	G (20.7mg)
O-Xylene	P (25.9mg)	G (20.2mg)
M-Xylene	P (27.2mg)	G (20.5mg)
P-Xylene	P (25.1mg)	G (19.9mg)
Benzene	P (25.5mg)	G (24.8mg)
Chlorobenzene	P (24.8mg)	G (20.4mg)
1,2-Dichlorobenzene	P (25.5mg)	G (19.9mg)
Hexane	NS	NS
Petrol	P	P
Diesel	P	P
Kerosene	P	P

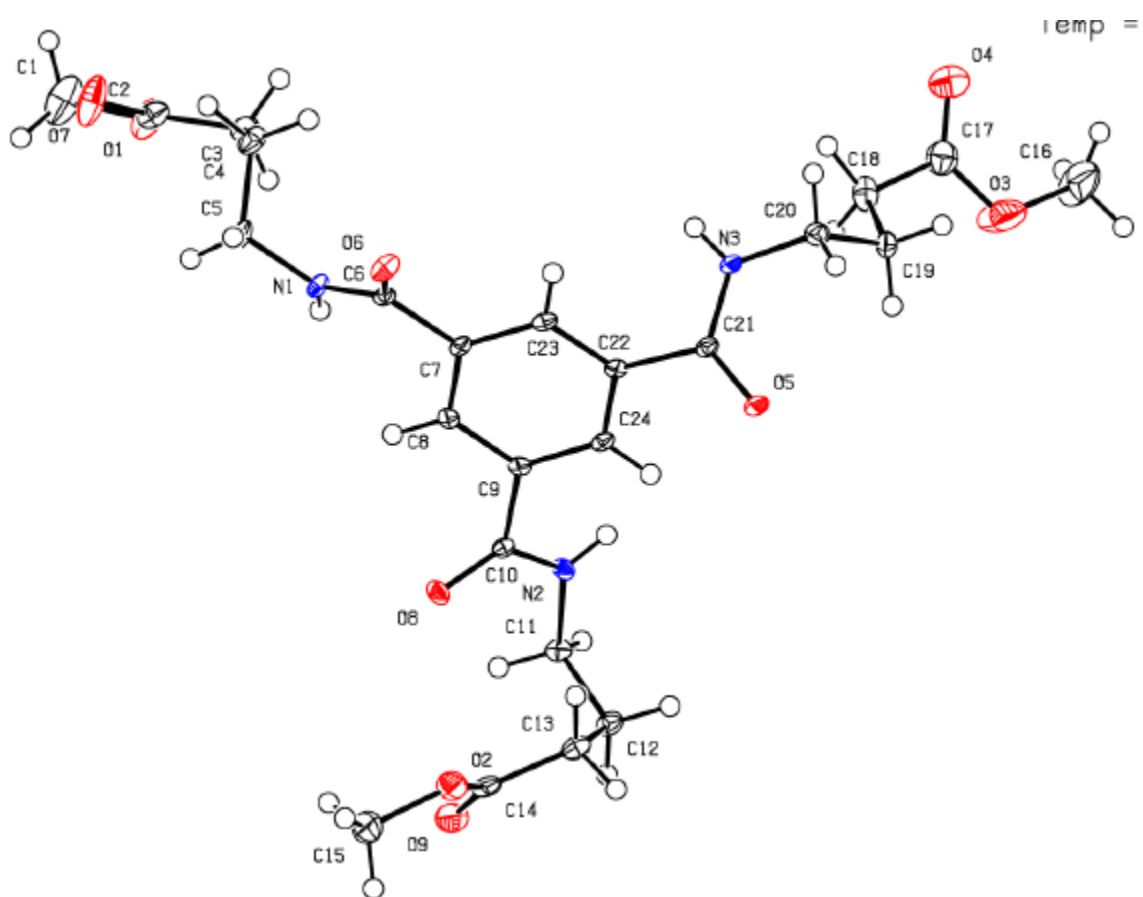
P = precipitate, NS = insoluble, G = gel



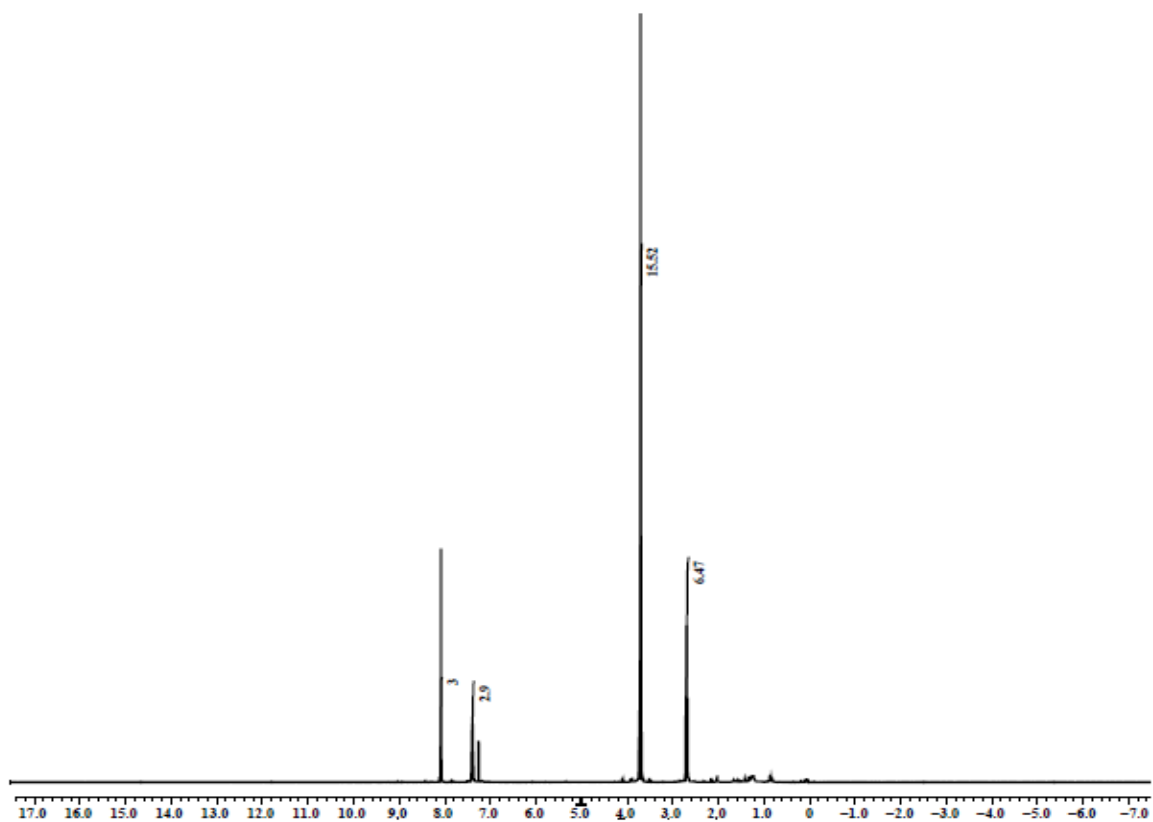
**Figure S1** Part of the <sup>1</sup>H NMR spectra of tricarboxamide **1** in toluene-*D*<sub>8</sub> with increasing temperature.



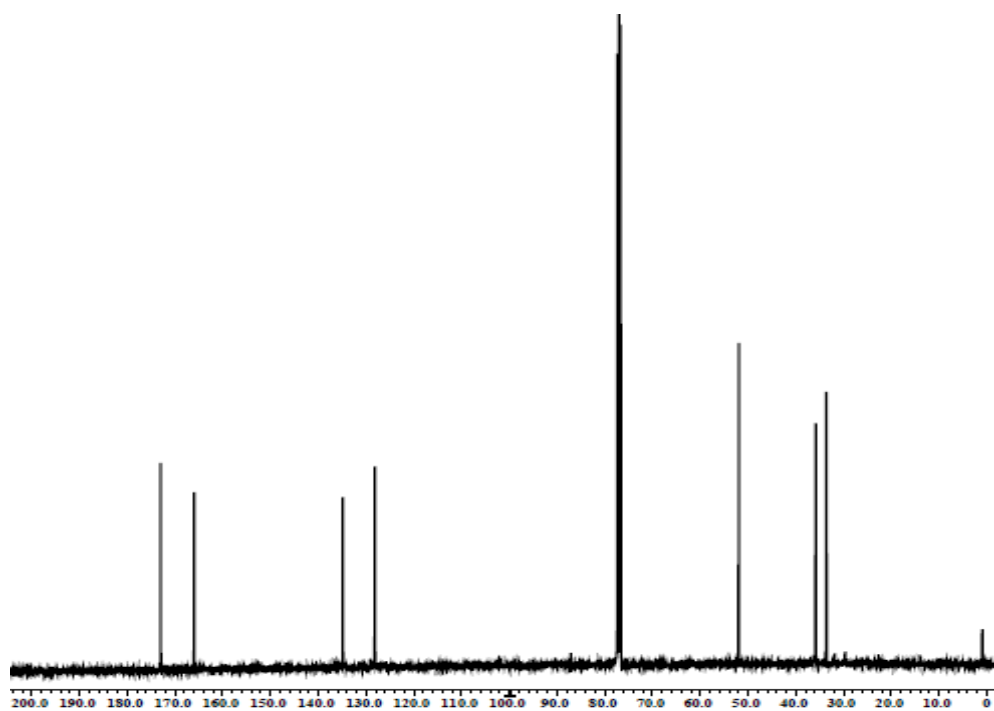
**Figure S2:** ORTEP diagram of 1. Ellipsoids are drawn at the 50 % probability level.



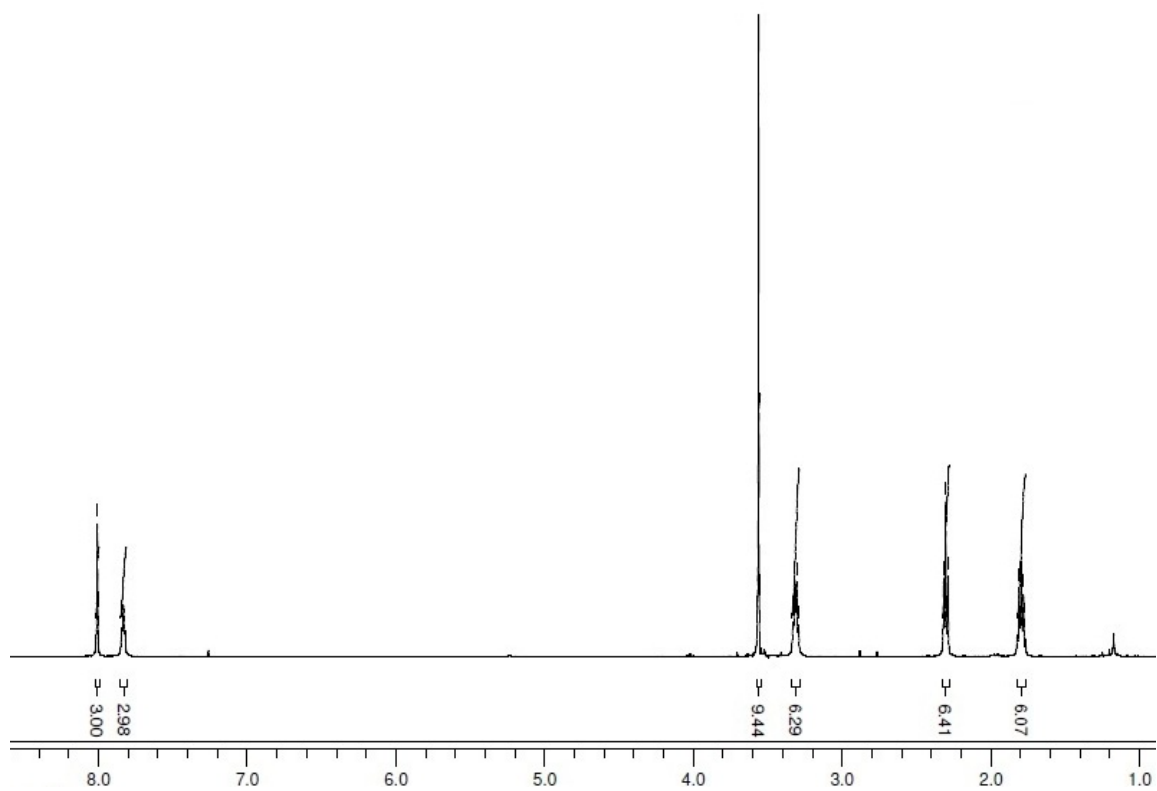
**Figure S3:** ORTEP diagram of 2. Ellipsoids are drawn at the 50 % probability level.



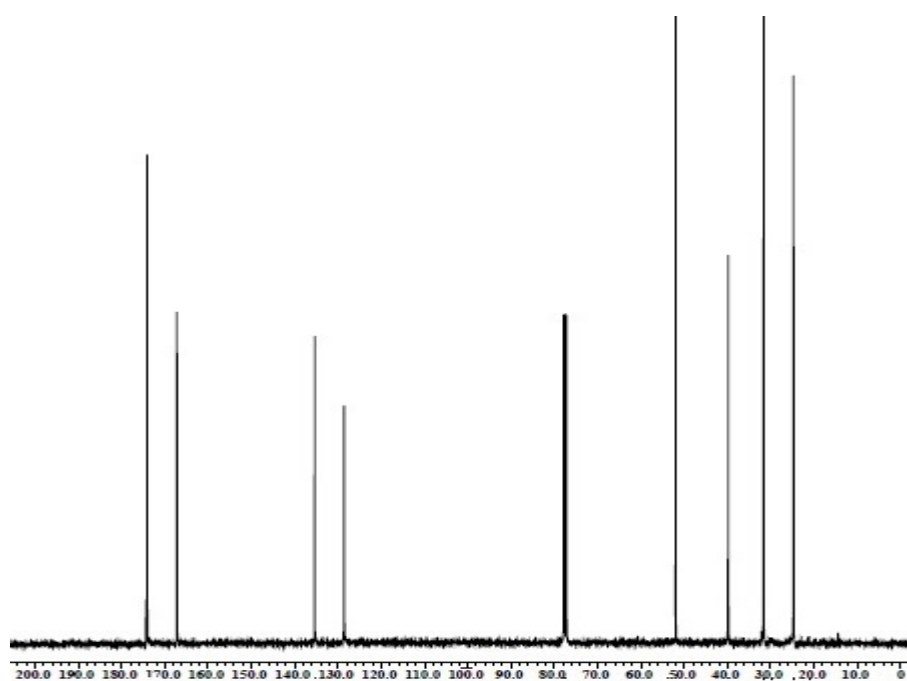
**Figure S4:**  $^1\text{H}$  NMR spectra (400 MHz,  $\text{CDCl}_3$ ,  $\delta$  in ppm) of tricarboxamide **1**.



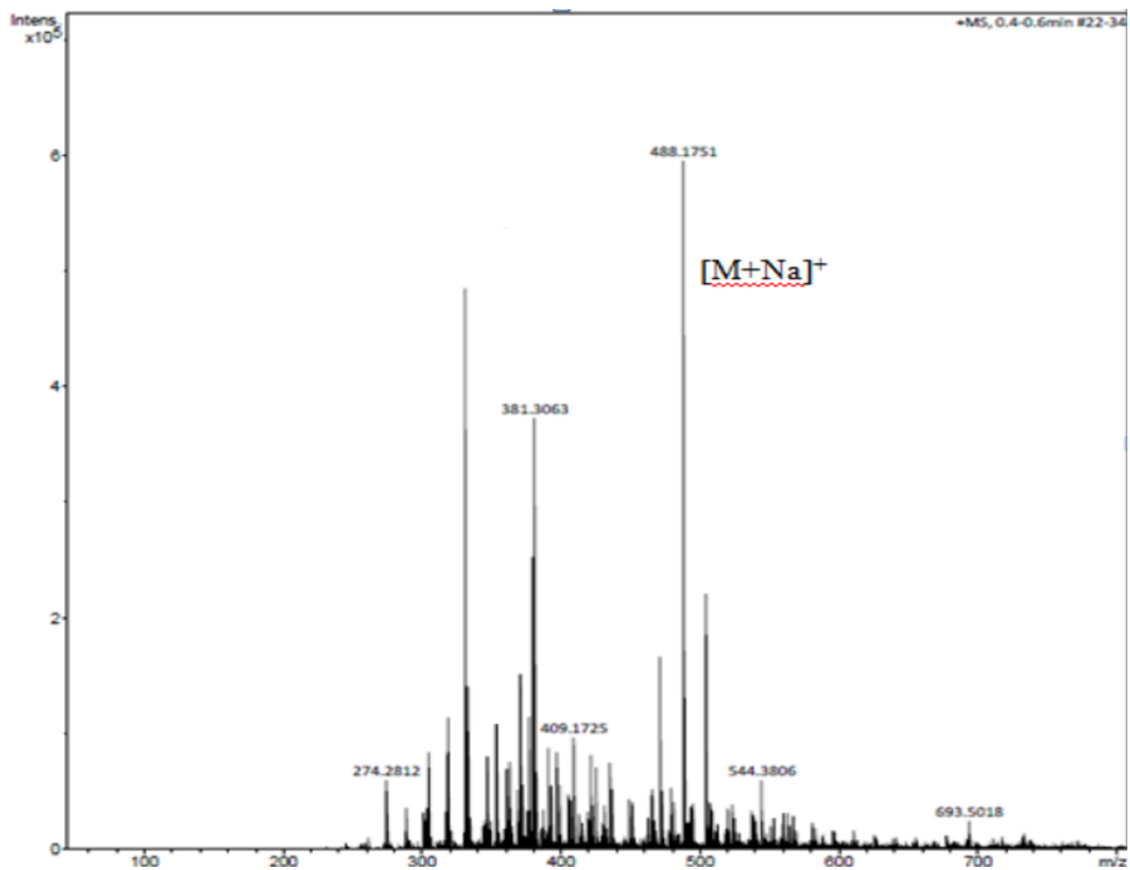
**Figure S5:**  $^{13}\text{C}$  NMR spectra (100 MHz,  $\text{CDCl}_3$ ,  $\delta$  in ppm) of tricarboxamide **1**.



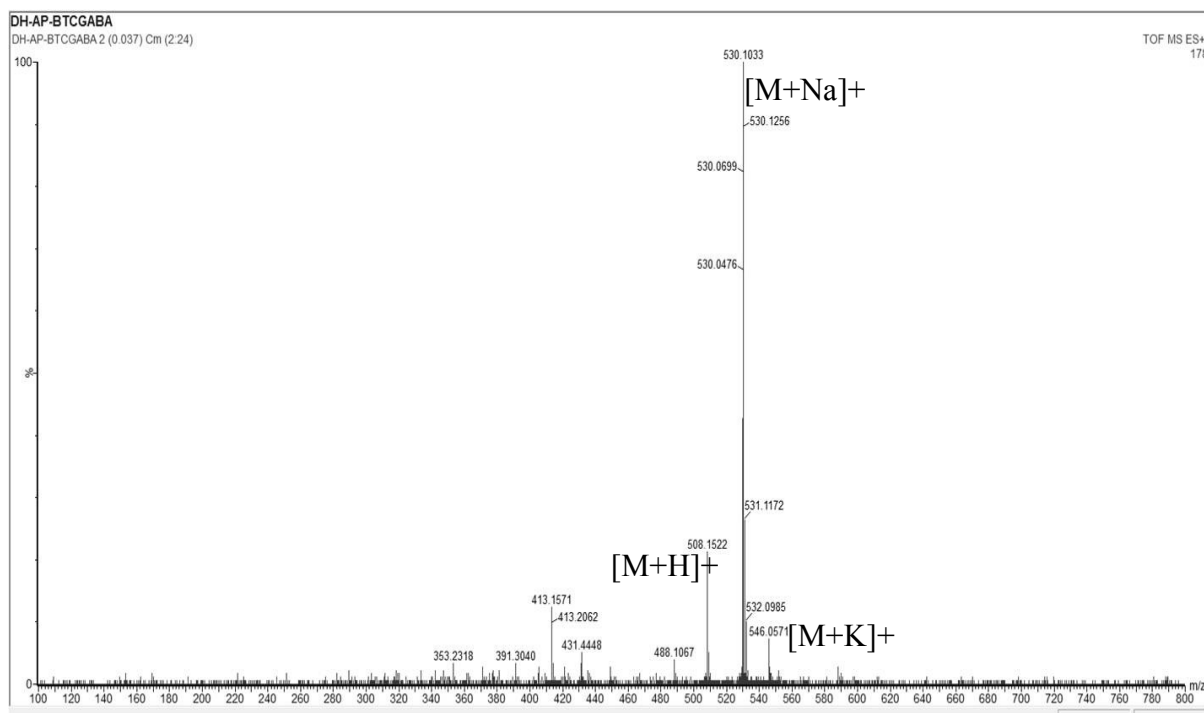
**Figure S6:**  $^1\text{H}$  NMR spectra (500 MHz,  $\text{CDCl}_3$ ,  $\delta$  in ppm) of tricarboxamide **2**.



**Figure S7:**  $^{13}\text{C}$  NMR spectra (125 MHz,  $\text{CDCl}_3$ ,  $\delta$  in ppm) of tricarboxamide **2**.

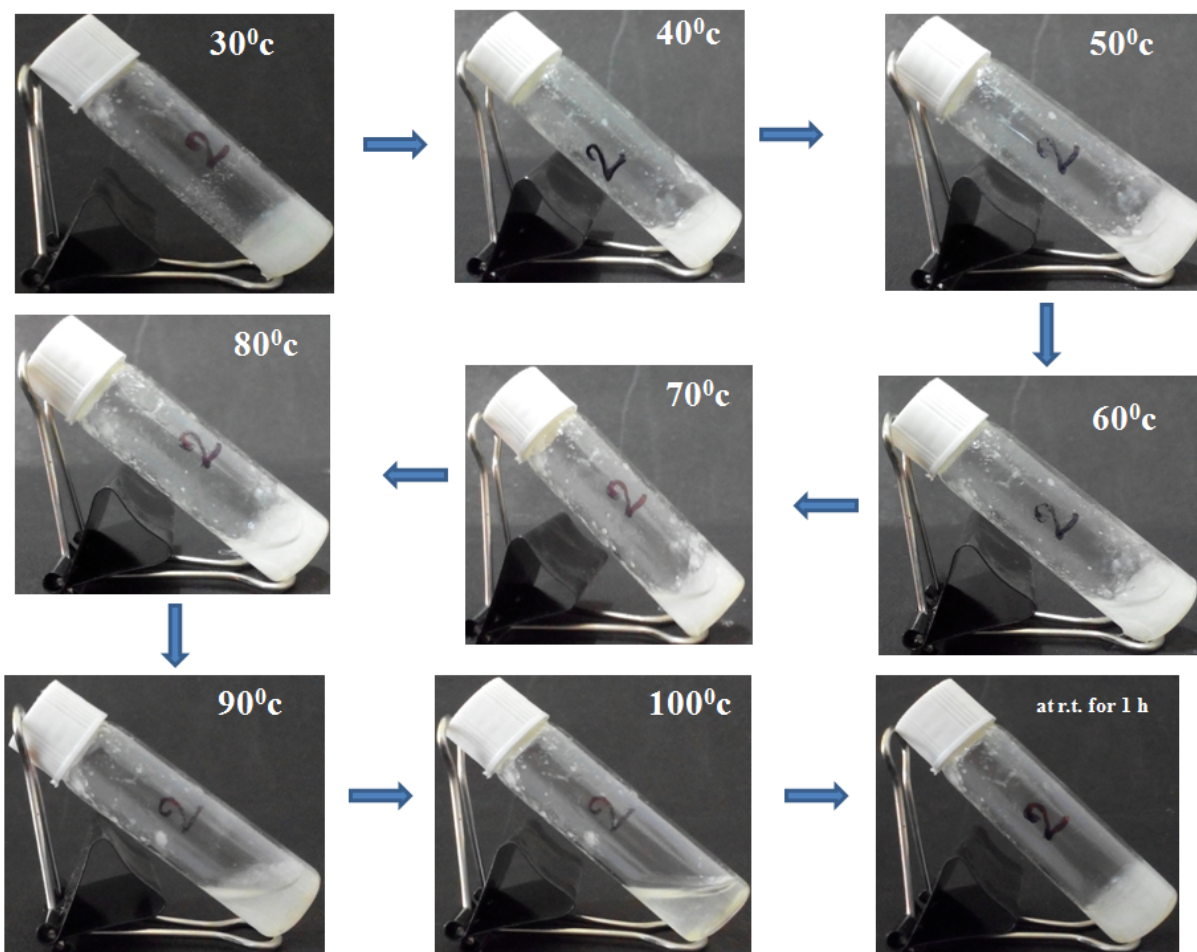


**Figure S8:** Mass spectra of tricarboxamide 1.



**Figure S9:** Mass spectra of tricarboxamide 2.





**Figure S10:** Thermoreversible gel of tricarboxyamide 2.