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Supporting Information

Ultrasonication-enhanced gelation properties of a versatile amphiphilic formamidine-based gelator exhibiting both organogelation and hydrogelation abilities

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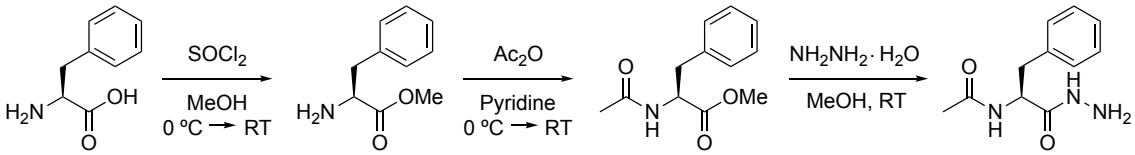
Contents list

1. Suppliers, synthesis and characterization of Ac-Phe-$NHNH_2$

Compound (*S*)-*N*-(1-hydrazinyl-1-oxo-3-phenylpropan-2-yl)acetamide (**4**), abbreviated as Ac-Phe-$NHNH_2$ (CAS#: 18934-57-1), can be purchased from the following suppliers: Angene Chemical; 3B Scientific Corporation; Indofine Chemical Company; Inc.; Senn Chemicals; Watanabe Chemical Industries; Honest Joy Holdings; Alfa Aesar; Aurora Fine Chemicals; BOC Sciences; DSK Biopharma; Shanghai Apichemical. Alternatively, Ac-Phe-$NHNH_2$ can be easily synthesized according to literature known procedures as described below. All compounds displayed identical spectroscopic data to those reported in the literature:



(S)-Methyl-2-amino-3-phenylpropanoate hydrochloride (**S2**)[1]: (*L*)-Phenylalanine (**S1**) (5 g, 42 mmol) was added carefully in portions to a cooled solution of thionyl chloride (15.3 mL, 210 mmol) in MeOH (50 mL) at 0 °C. After stirring for 1 h, the solution was allowed to warm to RT and stirred for additional 24 h. The solvent was removed under reduced pressure and the resulting residue was co-evaporated with MeOH (5 × 20 mL) to give compound **S2** as white solid in quantitative yield (9.05 g, 42 mmol) without need of further purification. ^{1}H NMR (300 MHz, MeOD): δ (ppm) = 7.42–7.32 (m, 3H), 7.29–7.24 (m, 2H), 4.33 (dd, *J* = 7.3, 6.2 Hz, 1H), 3.81 (s, 3H), 3.29–3.13 (m, 2H).

(S)-Methyl-2-acetamido-3-phenylpropanoate (**S3**)[2]: Compound **S2** (5 g, 23 mmol) was added in one portion to a cooled solution of acetic anhydride (11 mL, 120 mmol) in pyridine (9.5 mL) at 0 °C. After stirring for 0.5 h, the solution was allowed to warm to RT and stirred for additional 12 h. After addition of ice-water (50 mL), the aqueous mixture was extracted with CH_2Cl_2 (4 × 25 mL) and the combined organic layers were washed with aqueous saturated NH_4Cl (3 × 25 mL), 0.1 M HCl (3 × 25 mL) and water (3 × 25 mL). The organic layer was dried over Na_2SO_4, filtered and the solvent removed under reduced pressure to afford compound **S3** as white solid in 80% yield (4.14 g, 18.4 mmol). ^{1}H NMR (300 MHz, $CDCl_3$): δ (ppm) = 7.31–7.20 (m, 3H), 7.11–7.05 (m, 2H), 5.98 (s, 1H), 4.88 (dt, *J* = 7.9, 5.8 Hz, 1H), 3.71 (s, 3H), 3.18–3.03 (m, 2H), 1.97 (s, 3H).

(S)-N-(1-Hydrazinyl-1-oxo-3-phenylpropan-2-yl)acetamide (**4**)[3]: To a stirred solution of compound **S3** (4.14 g, 18.4 mmol) in MeOH (125 mL) was added carefully $NH_2NH_2 \bullet H_2O$ (2 mL, 40.1 mmol) and the mixture was stirred at RT for 2 days. The solvent was removed under reduced pressure to afford compound **4** as white solid in quantitative yield (4.35 g, 18.4 mmol). ^{1}H NMR (300 MHz, MeOD): δ (ppm) = 7.31–7.16 (m, 5H), 4.55 (dd, *J* = 8.5, 6.6 Hz, 1H), 3.08 (dd, *J* = 13.7, 6.5 Hz, 1H), 2.87 (dd, *J* = 13.7, 8.6 Hz, 1H), 1.89 (s, 3H).

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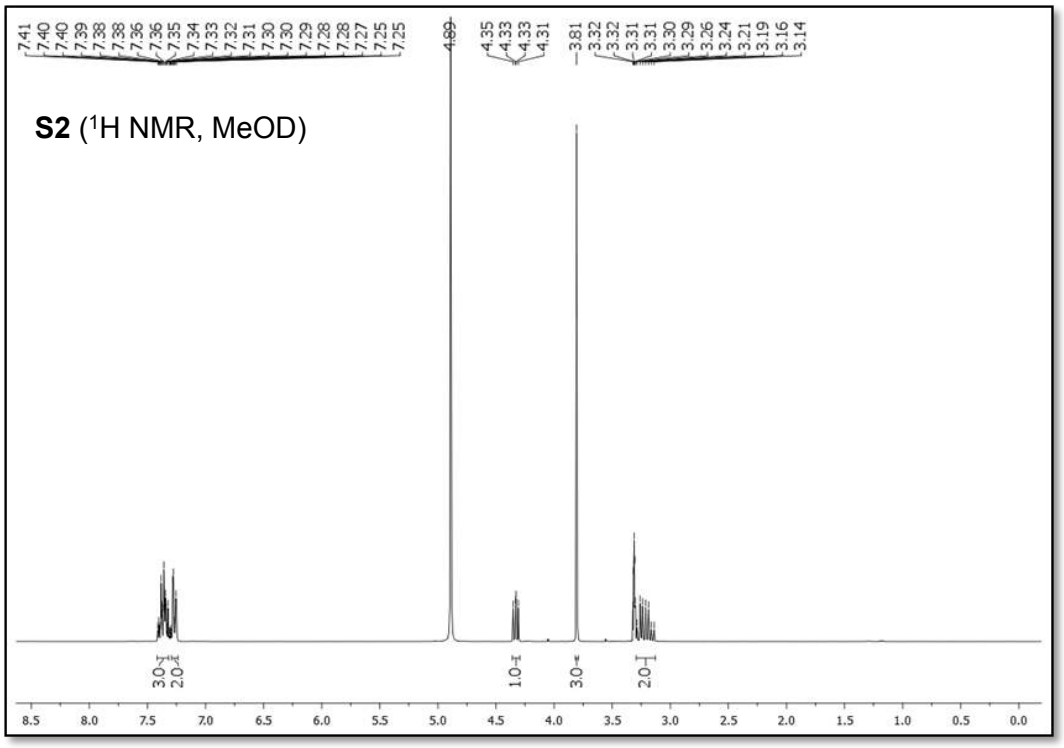
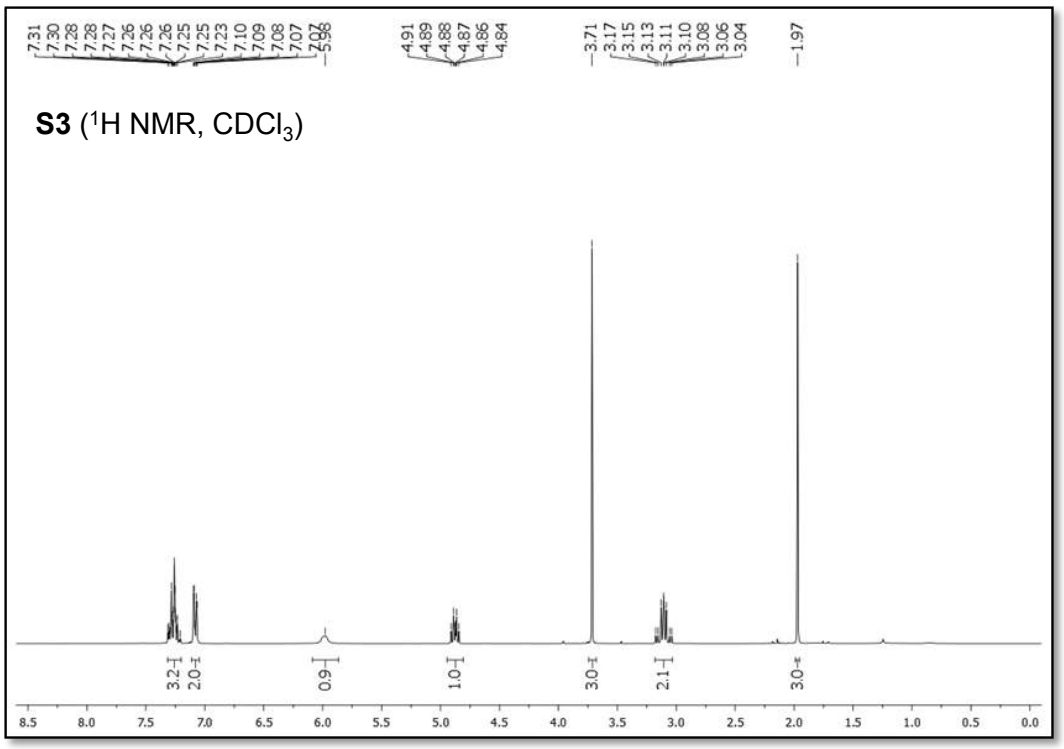
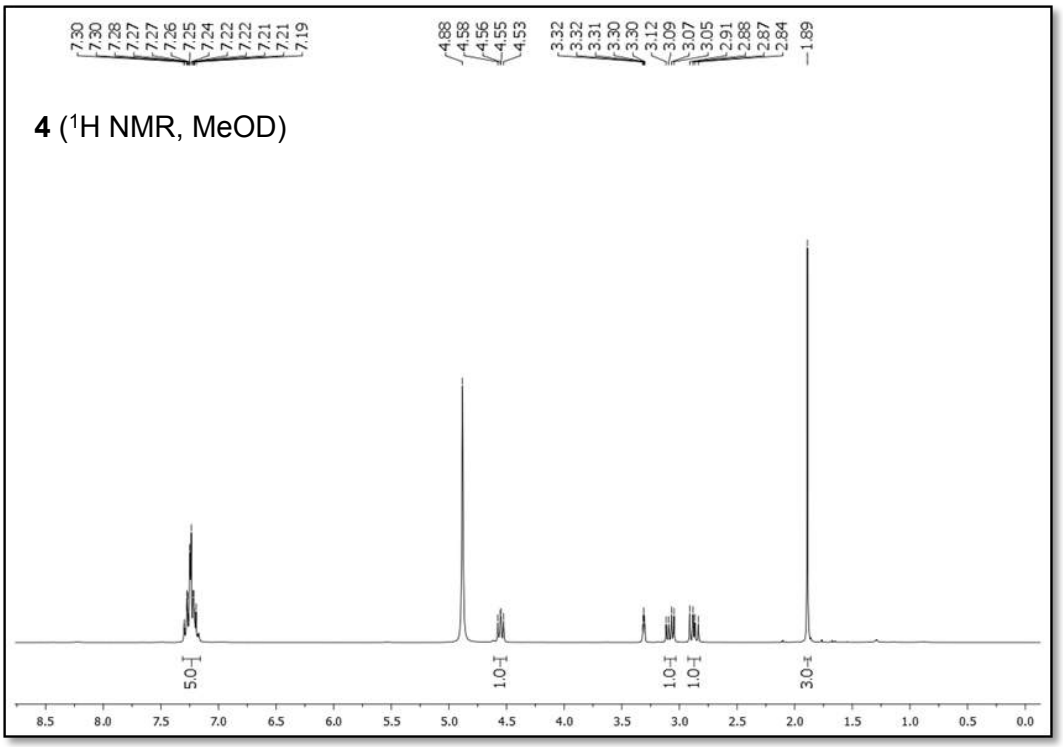
[1] C. F. Da Costa, A. C. Pinheiro, M. V. De Almeida, M. C. S. Lourenc and M. V. N. De Souza, *Chem Biol. Drug Des.*, 2012, **79**, 216–222.
[2] M. S. Foster, C. D. Oldham and S. W. May, *Tetrahedron: Asymmetry*, 2011, **22**, 283–293.
[3] M. Albrecht, I. Latorre, G. Mehmeti, K. Hengst and I. M. Oppel, *Dalton Trans.*, 2011, **40**, 12067–12074.

2. NMR spectra of synthesized compounds





4 (^{1}H NMR, MeOD)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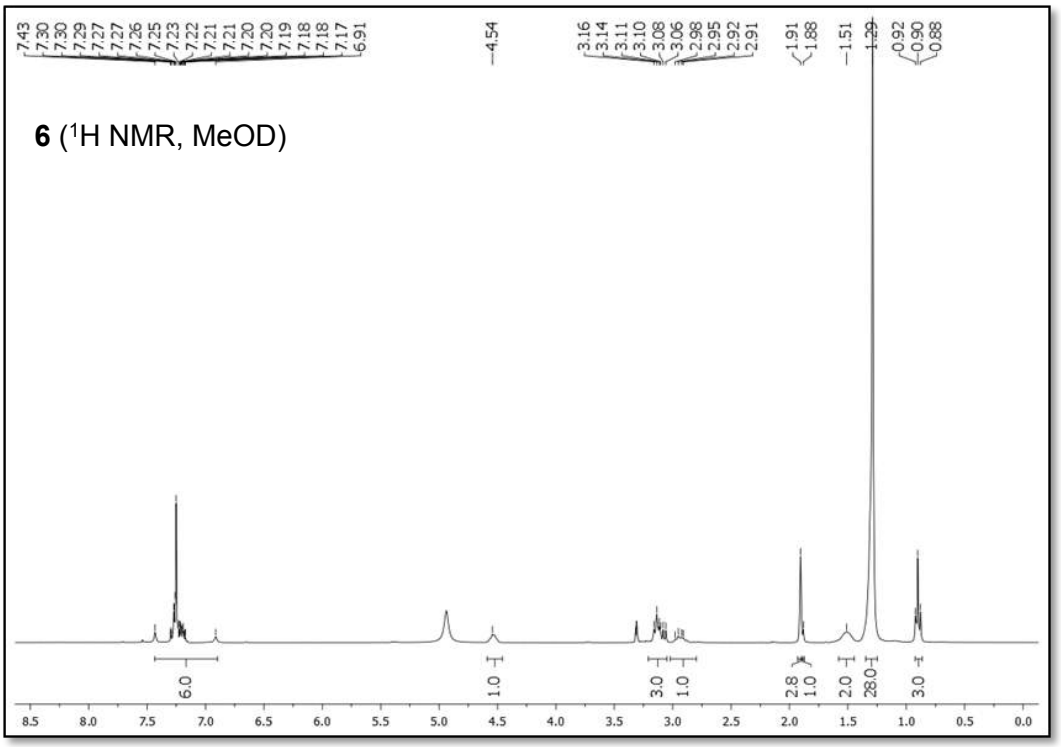
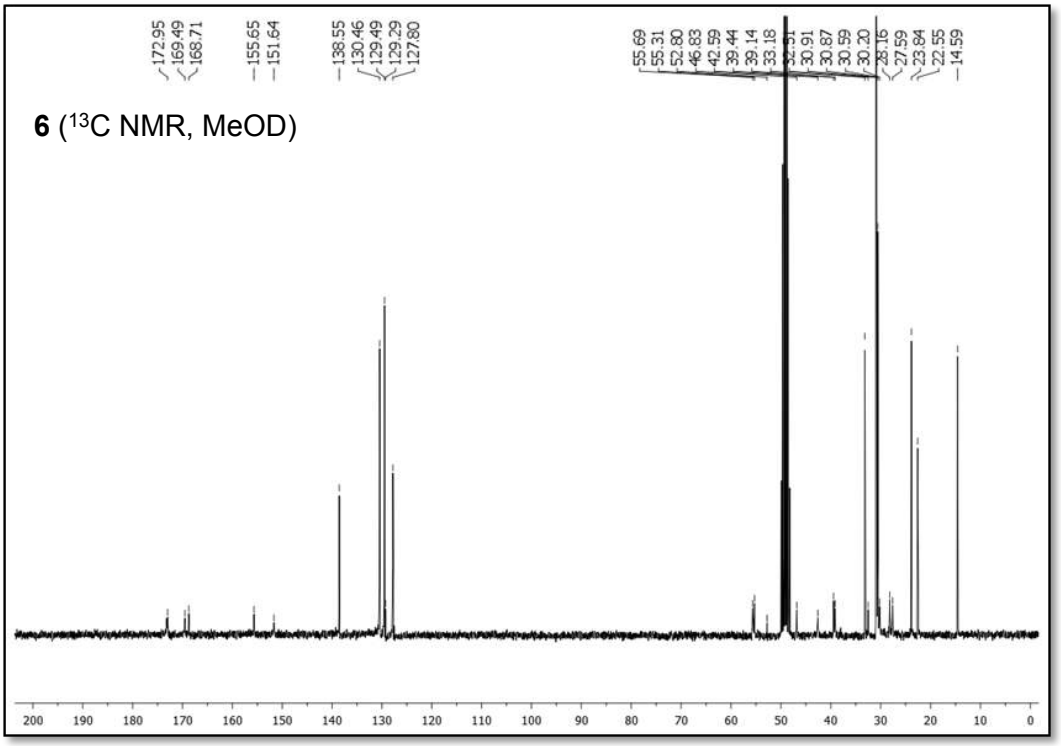


6 (^{1}H NMR, MeOD)



6 (^{13}C NMR, MeOD)

3. Custom made set-up for T_{gel} determination

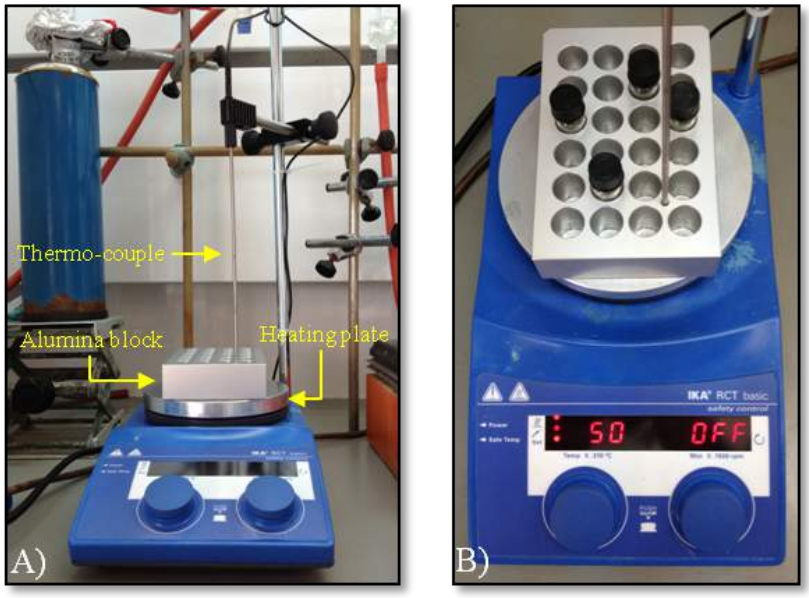


Fig. S1 A) Front view showing the set-up composed of an electric heating plate, an alumina block and a digital thermo-couple. B) Top view of the set-up during experimentation containing vials (4 cm length × 1 cm diameter) with gel materials. The alumina block was constructed especially for the type of vials showed in the picture, which fit smoothly inside the molds to ensure a good transmission of the heat-flow. The set-up was previously calibrated with literature data for known compounds. The hereby obtained values have been also verified by correlation with those obtained using other methods such as the horizontal flow method (i.e., the sealed vial containing the gel was immersed horizontally into an oil bath, which was heated up at 1 ºC/5 min), the dropping ball method (i.e., a ball was placed on top of the gel, which was heated up at 1 ºC/5 min; ball features: 0.1 ± 0.02 mm diameter, 0.105 ± 0.010 g weight) and differential scanning calorimetry (DSC) measurements. Moreover, verification on the independence of the position inside the apparatus was also carried out. The estimated error between the different methods was ± 2 ºC.

4. Table S1 Tabular data of gelation ability and gel properties obtained by heating-cooling and ultrasound protocols[a]

Entry	Solvent	Heating-cooling protocol				Ultrasound-enhanced protocol[b]				Ultrasound-enhanced protocol			
		CGC (mg/mL)	Gelation time (min)	T_{gel} (°C)	OA	CGC (mg/mL)	Gelation time (min)	T_{gel} (°C)	OA	CGC (mg/mL)	Gelation time (min)	T_{gel} (°C)	OA
1	MeOH	>200	-	-	PG	-	-	-	-	170 (15)	2.5 (0.5)	33 (1)	OG
2	EtOH	>200	-	-	PG	-	-	-	-	95 (10)	3.5 (0.5)	32 (2)	OG
3	*i*-PrOH	>200	-	-	PG	-	-	-	-	62 (6)	13 (1)	30 (2)	OG
4	2-BuOH	>200	-	-	PG	-	-	-	-	71 (8)	19 (2)	31 (1)	OG
5	1-HexOH	>200	-	-	PG	-	-	-	-	95 (10)	36 (3)	33 (1)	OG
6	Glycerine	0.1-200	-	-	I	-	-	-	-	0.1-200	-	-	I
7	DMSO	54 (5)	25 (5)	36 (2)	OG	54	4.5 (0.5)	38 (1)	OG	18 (2)	48 (7)	32 (1)	OG
8	DMF	>200	-	-	CS	-	-	-	-	>200	-	-	CS
9	MeCN	110 (10)	12 (2)	42 (1)	OG	110	0.8 (0.1)	50 (1)	OG	9 (1)	0.8 (0.1)	40 (1)	OG
10	THF	>200	-	-	CS	-	-	-	-	>200	-	-	CS
11	Et_2O	27 (4)	7 (1)	41 (1)	OG	27	1.3 (0.1)	43 (1)	OG	12 (1)	0.8 (0.1)	36 (2)	OG
12	EtOAc	67 (7)	10.5 (0.5)	49 (1)	OG	67	0.8 (0.1)	54 (2)	OG	10 (1)	1.3 (0.1)	46 (1)	OG
13	CH_2Cl_2	>200	-	-	CS	-	-	-	-	>200	-	-	CS
14	$CHCl_3$	>200	-	-	CS	-	-	-	-	>200	-	-	CS
15	DCE	>200	-	-	CS	-	-	-	-	>200	-	-	CS
16	PheCN	175 (15)	145 (15)	47 (1)	TLG	175	11 (0.5)	51 (1)	TLG	47 (4)	12.5 (1.5)	36 (2)	TPG
17	PheCl	167 (13)	180 (30)	36 (1)	TLG	167	9.5 (0.5)	44 (1)	TLG	42 (4)	10.5 (1)	37 (2)	TPG
18	Benzene	120 (10)	210 (15)	38 (2)	TPG	120	4 (0.5)	48 (2)	TPG	20 (2)	5.5 (0.5)	38 (1)	TPG
19	Toluene	72 (6)	780 (60)	40 (1)	TPG	72	2.5 (0.2)	52 (2)	TPG	17 (2)	2.5 (0.5)	40 (1)	TPG
20	Xylene	50 (4)	65 (5)	47 (2)	TPG	50	1.5 (0.2)	51 (1)	TPG	13 (1)	1.8 (0.2)	38 (1)	TPG
21	DOX	87 (8)	160 (20)	37 (2)	OG	87	5 (0.5)	42 (1)	OG	28 (3)	3.5 (0.5)	33 (2)	OG
22	Acetone	87 (8)	135 (15)	45 (1)	OG	87	0.8 (0.1)	55 (2)	OG	14 (2)	1.8 (0.2)	39 (1)	OG
23	*n*-Hexane	20 (2)	10 (0.5)	40 (1)	OG	20	1.3 (0.1)	41 (2)	OG	8 (1)	0.8 (0.1)	37 (1)	OG
24	IL-1	25 (3)	30 (5)	72 (1)	OG	25	8.5 (0.5)	74 (2)	OG	14 (2)	20 (5)	68 (2)	OG
25	IL-2	48 (4)	7 (1)	78 (2)	OG	48	3.5 (0.5)	82 (2)	OG	29 (3)	17 (3)	71 (1)	OG
26	O-oil	14 (2)	45 (5)	62 (1)	TLG	14	5.5 (0.5)	72 (1)	TLG	8 (1)	13 (1)	60 (1)	TLG
27	R-oil	13 (2)	75 (10)	63 (1)	TLG	13	45 (5)	67 (1)	TLG	5 (1)	125 (15)	58 (2)	TLG
28	S-oil	42 (4)	90 (15)	61 (2)	OG	42	13 (1)	71 (2)	OG	23 (3)	17 (3)	65 (1)	OG
29	Gasoline	85 (8)	125 (15)	39 (1)	TLG	85	16.5 (1.5)	43 (1)	TLG	63 (6)	6 (0.5)	33 (2)	TLG
30	Diesel	82 (8)	80 (10)	44 (2)	TLG	82	7.5 (0.5)	53 (1)	TLG	25 (3)	25 (5)	35 (1)	TLG

[a] Values in brackets indicate errors from at least 2 randomized experiments. Solvent volume = 1 mL. [b] Values determined at the corresponding *CGC* of the heating-cooling protocol. Abbreviations: OA = optical appearance; CS = clear solution; I = insolubility of the compound in the corresponding solvent; P = precipitation of the compound from an isotropic solution after cooling; PG = partial gel; OG = opaque gel; TLG = translucent gel; TPG = transparent gel; DCE = 1,2-dichloroethane; DOX = 1,4-dioxane; 1-HexOH = 1-hexanol; IL-1 = 1-butyl-3-methylimidazolium hexafluoro phosphate; IL-2 = 1,3-dibutylimidazolium hexafluoro phosphate; PheCl = chlorobenzene; PheCN = benzonitrile; O-oil = olive oil; R-oil = rapeseed oil; S-oil = silicon oil.

5. Additional figures and tables

Fig. S2 Proof of transparency of gels made in toluene (17 mg/mL) in comparison to gels made in MeCN (9 mg/mL). *Top*: Intact gels. *Bottom*: Gels destroyed using a spatula.

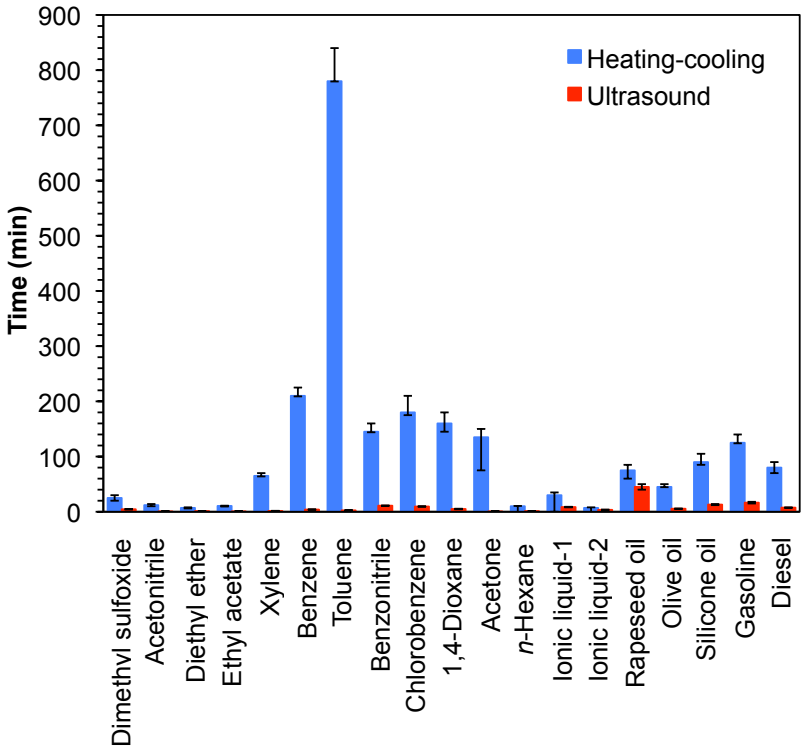


Fig. S3 Comparison between the gelation times obtained using the heating-cooling cycle *vs.* the ultrasound-enhanced protocol. Abbreviations: Ionic liquid-1 = 1-butyl-3-methylimidazolium hexafluorophosphate; Ionic liquid-2 = 1,3-dibutylimidazolium hexafluorophosphate.

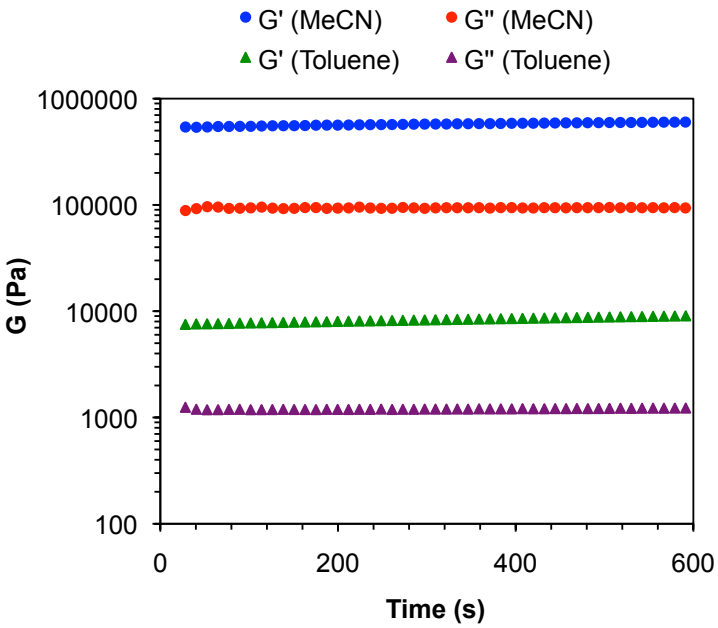


Fig. S4 DTS experiments for the gels made of **6** in acetonitrile (9 mg/mL) and toluene (17 mg/mL) using the ultrasound protocol. MeCN: G' = 575328 ± 464 Pa, G'' = 95360 ± 2228.4 Pa, tan δ = 0.17 ± 0.004; strain at break = 4 ± 0.4 %. Toluene: G' = 7946 ± 514.0 Pa, G'' = 1120 ± 117.8 Pa, tan δ = 0.14 ± 0.006; strain at break = 4 ± 0.6 %.

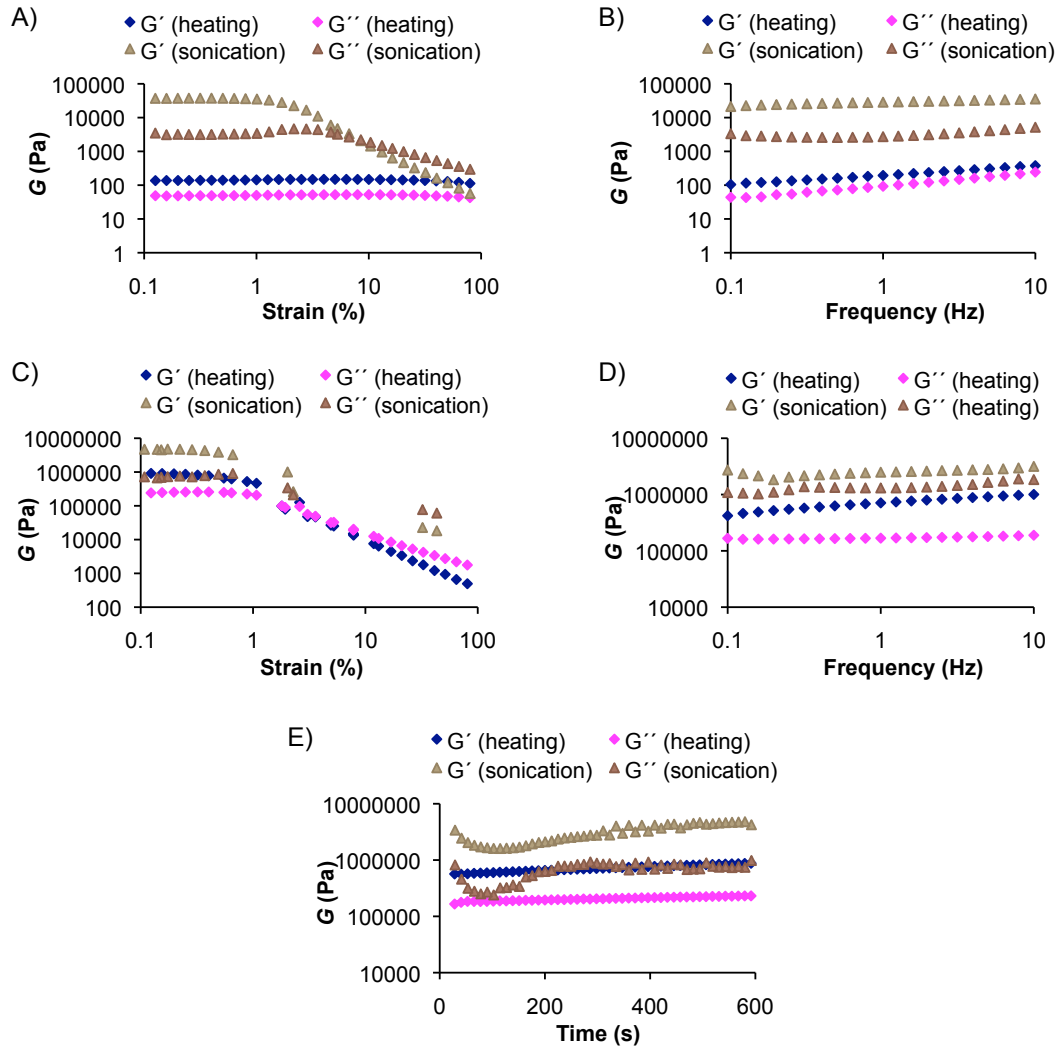


Fig. S5 Additional rheological plots comparing the materials obtained by heating-cooling and ultrasound protocols: A) DSS experiment of the gel made of **6** in toluene (72 mg/mL). B) A) DFS experiment of the gel made of **6** in toluene (72 mg/mL). C) DSS experiment of the gel made of **6** in MeCN (110 mg/mL). D) A) DFS experiment of the gel made of **6** in MeCN (110 mg/mL). E) DTS experiment of the gel made of **6** in MeCN (110 mg/mL).

Summary of the mechanical properties for the above materials depending on the solvent and protocol used for the gel preparation:

- *Solvent: MeCN; method: heating-cooling*
G' = 720.3 kPa; G'' = 206.1 kPa; tan δ = 0.29; strain at break = 2%
- *Solvent: MeCN; method: ultrasound*
G' = 3162.8 kPa; G'' = 672.5 kPa; tan δ = 0.21; strain at break = 6%
- *Solvent: Toluene; method: heating-cooling*
G' = 0.12 kPa; G'' = 0.04 kPa; tan δ = 0.35; strain at break >100%
- *Solvent: Toluene; method: ultrasound*
G' = 33 kPa; G'' = 3.1 kPa; tan δ = 0.09; strain at break = 8%

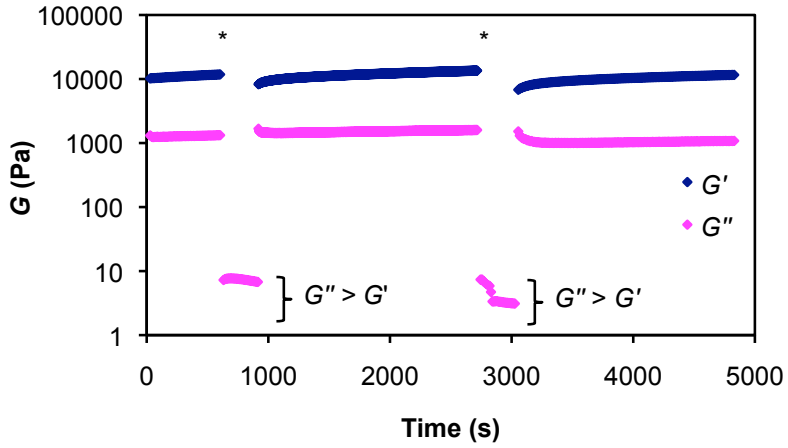


Fig. S6 Thixotropy loop test of the model gel made from **6** in toluene (17 mg/mL). The strain for each step during shear was first increased from 0.1% (gel state) to 100% (solution state) and subsequently returned to the original value (recovery of the gel state). Asterisks indicate the increase of the shear strain at the time scale.

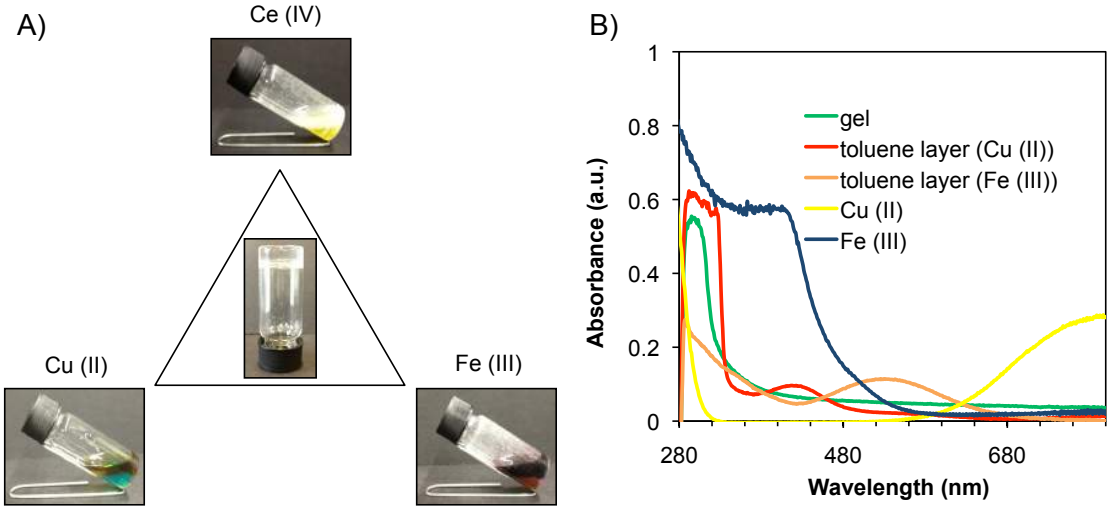


Fig. S7 Responsive nature of gels derived from toluene (17 mg/mL) against aqueous solutions of metals. A) Digital photographs demonstrating the change of coloration of the toluene layer in comparison to metal-solution accompanied by a *gel*-to-*sol* phase transition. B) Corresponding UV-spectra of aqueous metal-solution (0.1M), the gel derived from toluene (17 mg/mL) and the toluene layers (diluted by a factor of 1:10) after phase separation.

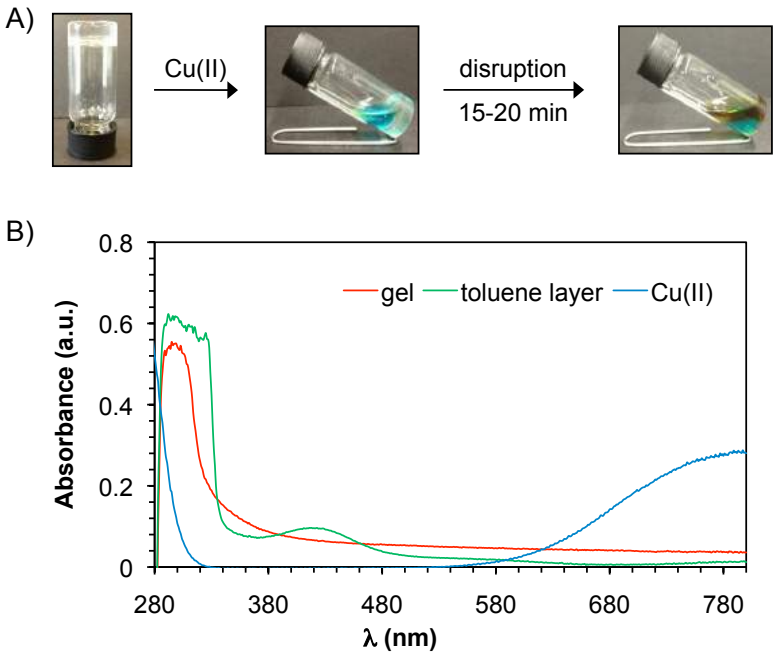


Fig. S8 Responsiveness of gels made of **6** in toluene (17 mg/mL) against aqueous solutions of Cu(II). A) Digital photographs showing the change in coloration of the toluene layer in comparison to metal-solution, accompanied by a *gel*-to-*sol* phase transition. B) Corresponding UV-vis spectra of aqueous $CuSO_4 \bullet 5H_2O$ solution (0.1M), gel made in toluene (17 mg/mL) and toluene layers (diluted by a factor of 1:10) after phase separation.

Note: The addition of Cu(II) and Fe(III) resulted in a change of color of the toluene layer very different to the color of the aqueous metal solutions accompanied by a *gel*-to-*sol* phase transition. The toluene layer after phase separation caused by the addition of e.g. Cu(II) exhibited a shift of the maximum wavelength λ_{max} from 808 to 418 nm. This finding could suggests either the formation of metal nanoparticles by reductive motifs of compound **6** or, more likely, the formation of metal-formamidine complexes.[4] Although it is out of the scope of this manuscript, further studies will still be necessary in order to unequivocally characterize these materials. In addition, these observations could be useful for the development of gel-based materials based on **6** for heavy metal sensing.

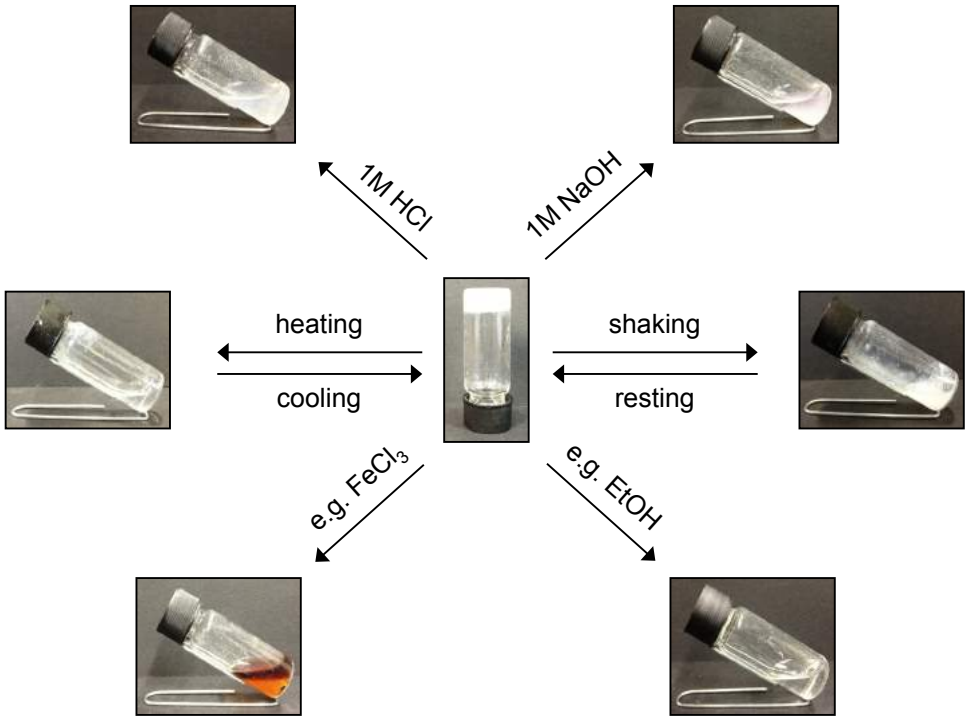


Fig. S9 Multistimuli responsiveness of organogel made of **6** in MeCN (9 mg/mL) prepared by the ultrasound protocol. Pictures were taken 10 min after application of the corresponding stimulus.

[4] a) D. D. Díaz, S. S. Gupta, J. Kuzelka, M. Cymborowski, M. Sabat and M. G. Finn, *Eur. J. Inorg. Chem.*, 2006, **22**, 4489–4493, and references therein. b) Z.-K. Chan, C.-H. Lin, C.-C. Wang, J.-D. Chen, J.-C. Wang and C.-W. Liu, *Dalton Trans.*, 2008, **16**, 2183–2189, and references therein.

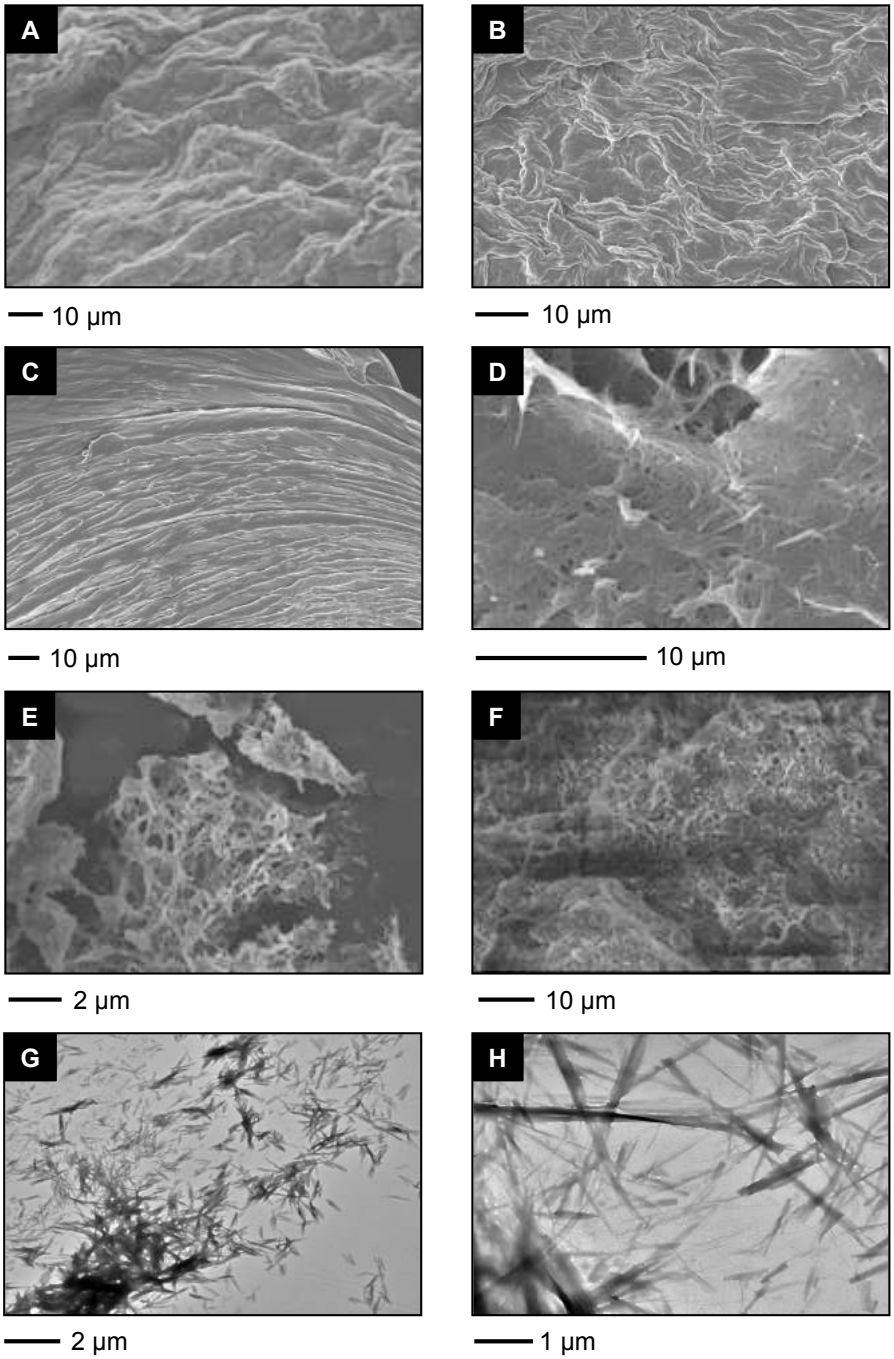


Fig. S10 Additional electron microscopy images. A-F: FESEM images. A: xerogel obtained from the gel made in toluene (17 mg/mL) prepared by ultrasound treatment; B: xerogel obtained from the gel made in toluene (72 mg/mL) prepared by ultrasound treatment; C: xerogel obtained from the gel made in toluene (72 mg/mL) prepared by heating-cooling protocol; D: xerogel obtained from the gel made in MeCN (9 mg/mL) prepared by ultrasound treatment; E: xerogel obtained from the gel made in MeCN (110 mg/mL) prepared by ultrasound treatment; F: xerogel obtained from the gel made in MeCN (110 mg/mL) prepared by heating-cooling protocol. G, H: TEM images. G: xerogels obtained from the gel made in MeCN (9 mg/mL) prepared by ultrasound treatment. H: xerogels obtained from the gel made in toluene (17 mg/mL) prepared by ultrasound treatment.

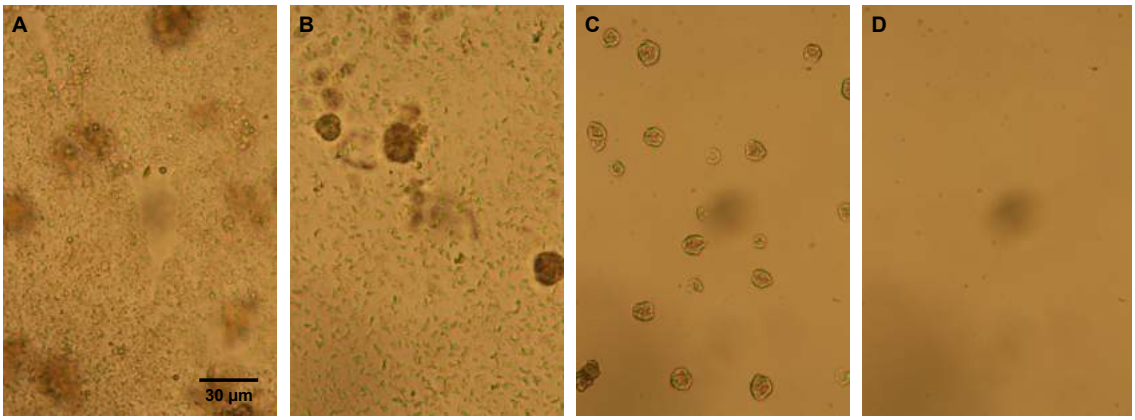


Fig. S11 Polarized light (90º) microscope images of A-C) gel made of **6** in acetonitrile (9 mg/mL) and D) solution upon *gel*-to-*sol* thermal transition.

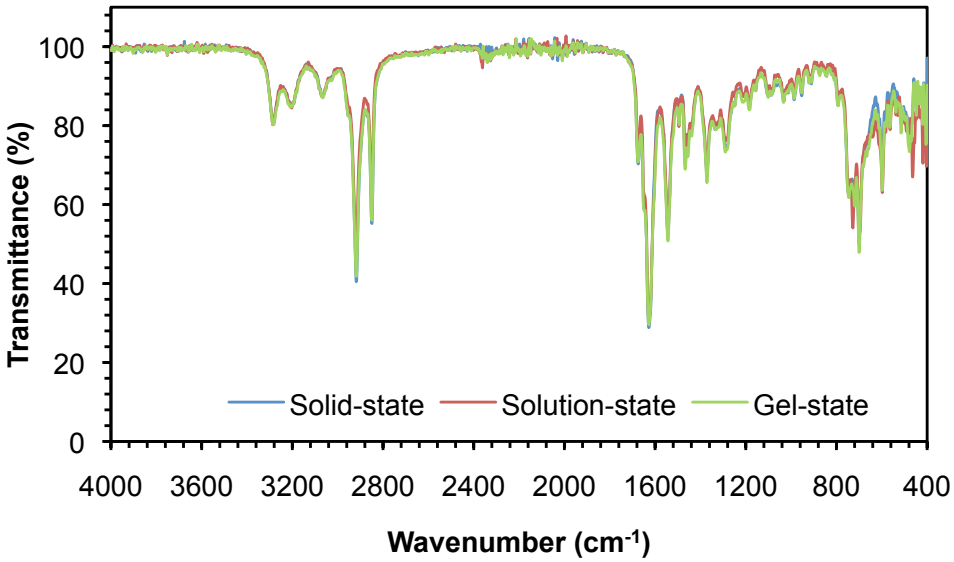


Fig. S12 Comparative FTIR spectra of solid **6**, solution of **6** in MeCN and the corresponding gel (9 mg/mL) prepared by ultrasound treatment.

Note: No differences were observed with the spectrum from the gel made in toluene (17 mg/mL) prepared either by heating-cooling or ultrasound treatment.

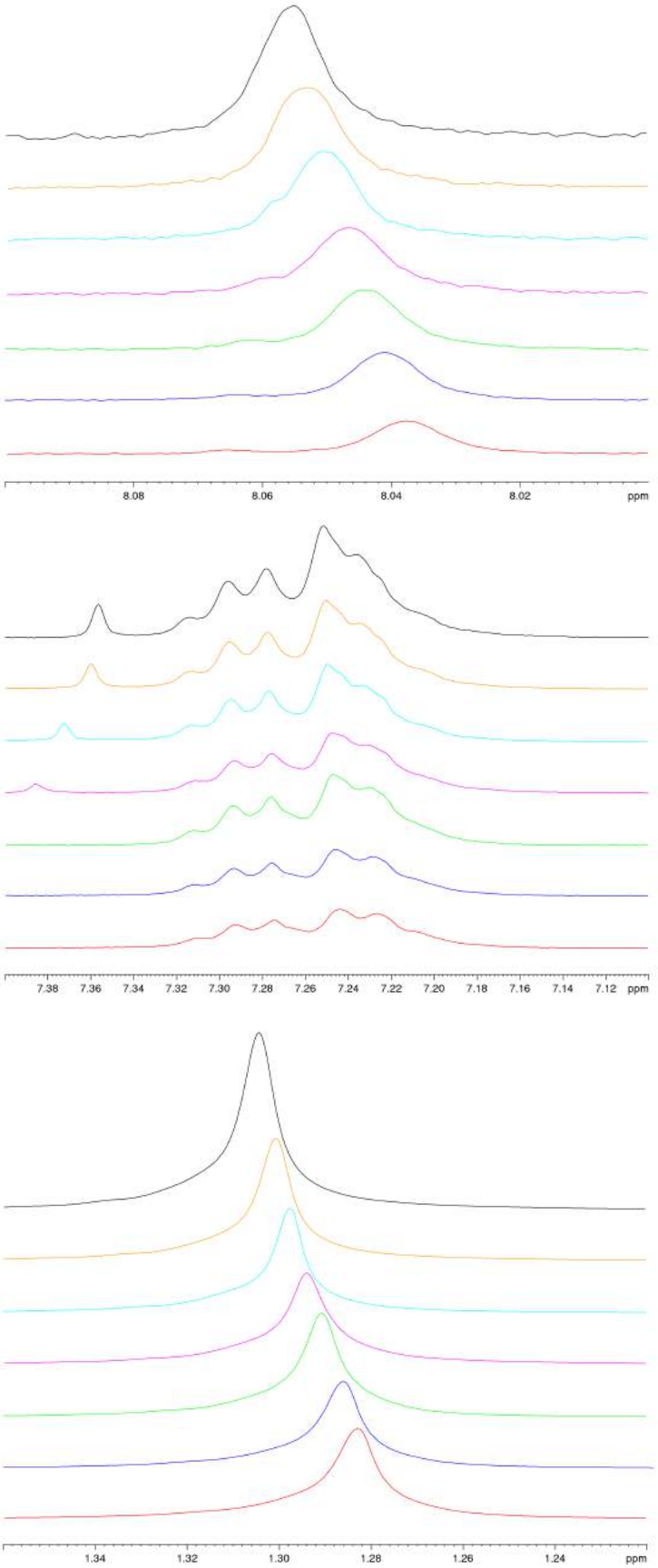


Fig. S13 Sections of ^{1}H NMR spectra of gel made of **6** in CD_3CN (9 mg/mL) at variable temperature (from 35 ºC –red line– to 65 ºC –black line–, with steps of 5 ºC).

Note: Proton signals corresponding to NH– (≈ 8 ppm) and aliphatic chain (≈1.3 ppm) showed a clear shift to higher ppm with rising temperatures. Aromatic signals (≈ 7.2-7.3 ppm) showed only a very slight shift.

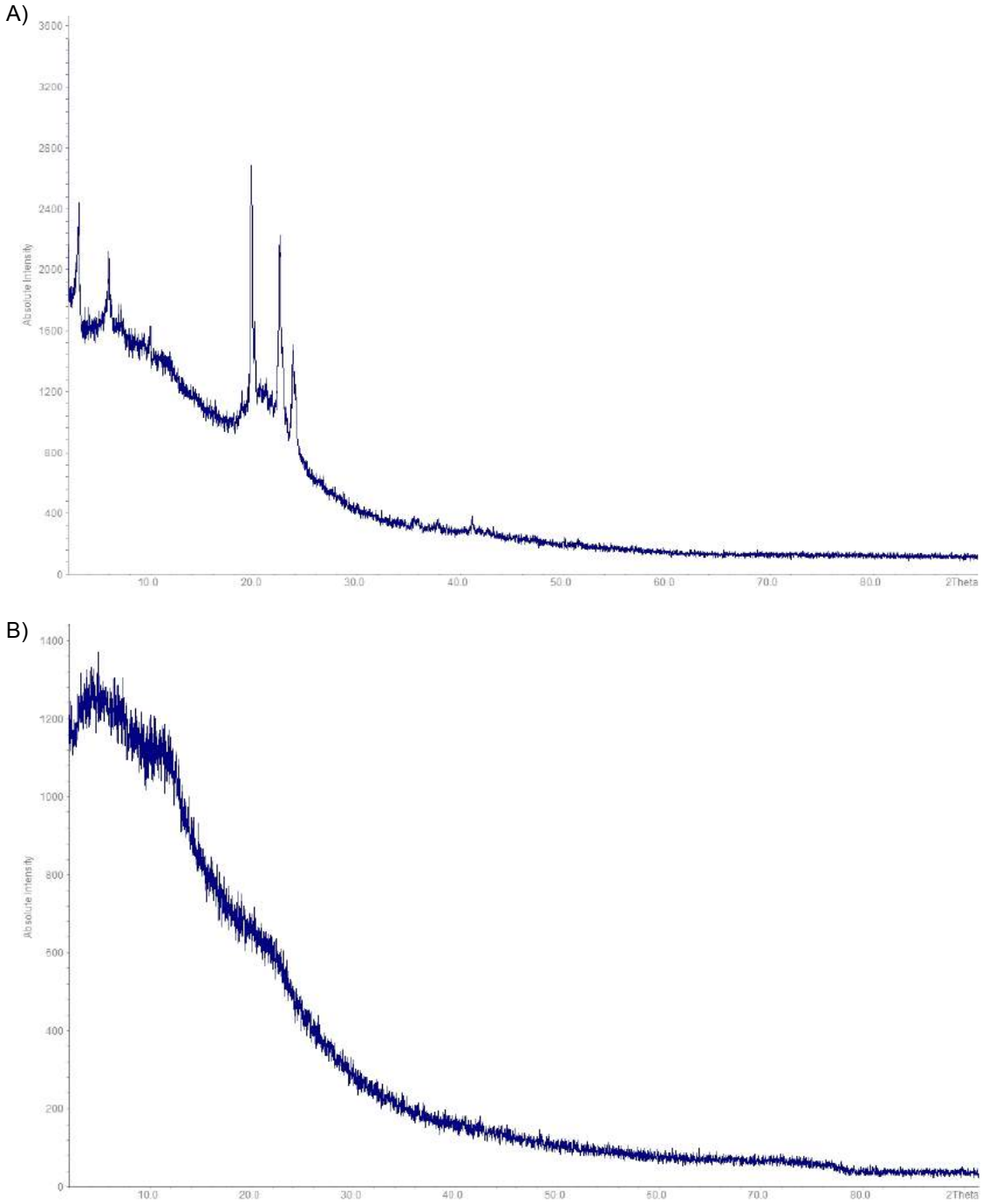


Fig. S14 PXRD patterns of A) solid **6** as synthesized and B) xerogel obtained from the gel made of **6** in acetonitrile (9 mg/mL).

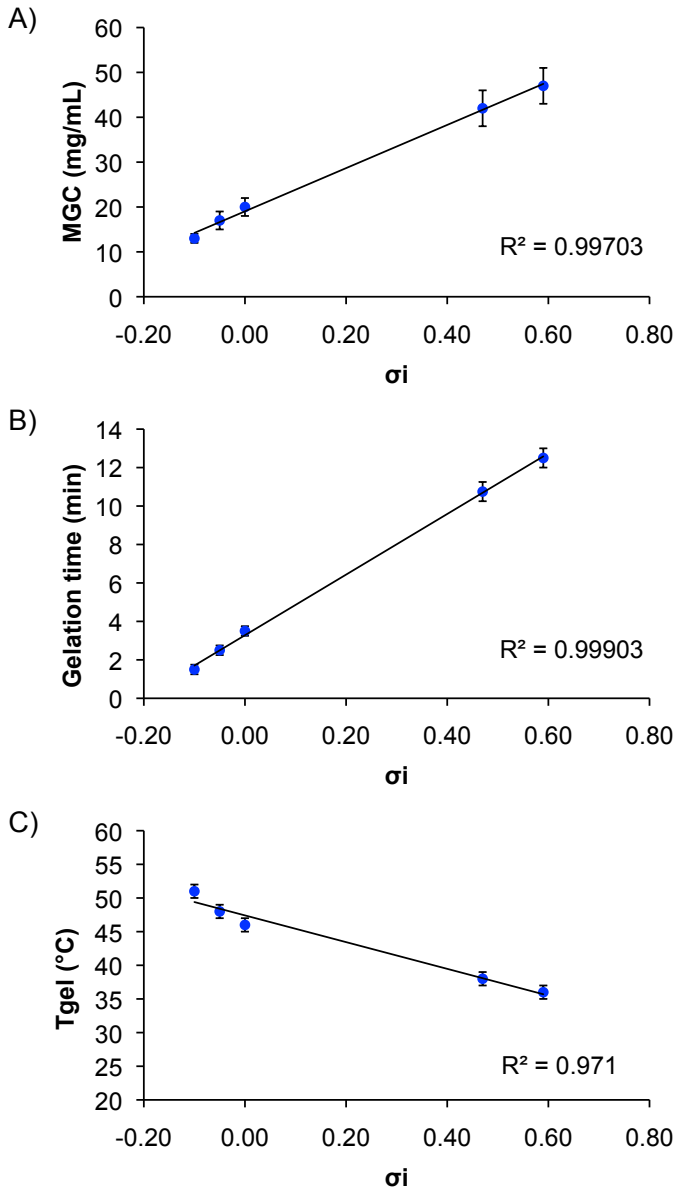


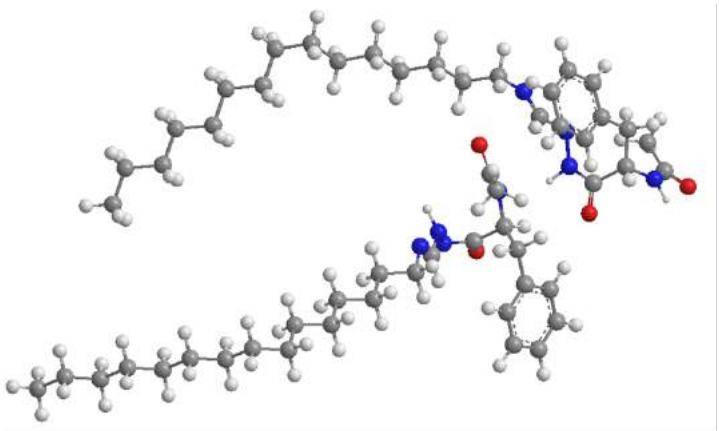
Fig. S15 Plots showing the linear correlation of the corresponding aromatic solvent σ^i – parameters[5] with some gelation/gel properties of the gel made of **6**: A) Critical gelation concentration (CGC), B) gelation time and C) *sol*-to-*gel* transition temperature (T_{gel}).

[5] C. Hansch, A. Leo and R. W. Taft, *Chem. Rev.*, 1991, **91**, 165–195 and references therein.

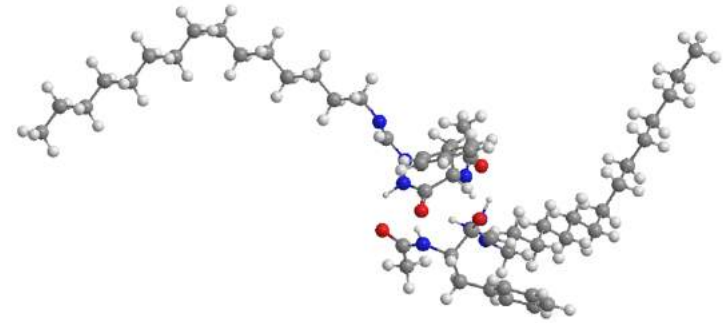
Table S3 Correlation of gelation properties of compound **6** in aromatic solvents with the corresponding σ^i –parameters.[a]

Solvent	σ^i	CGC (mg/mL)	Gelation time (min)	T_{gel} (°C)
Xylene	-0.10	13 ± 1	1.5 ± 0.3	51 ± 1
Toluene	-0.05	17 ± 2	2.5 ± 0.3	48 ± 1
Benzene	0.00	20 ± 2	3.5 ± 0.3	46 ± 1
Chlorobenzene	0.47	42 ± 4	10.8 ± 0.5	38 ± 1
Benzonitrile	0.59	47 ± 4	12.5 ± 0.5	36 ± 1

[a] Gels were obtained by the ultrasound protocol. Solvent volume = 1 mL. Error values were estimated from at least 2 randomized experiments. Values for gelation time and T_{gel} of all systems were determined at the highest CGC in benzonitrile for comparative purposes. For xylene the σ^i –value caused by the methyl group has been doubled as approximation.



A_1: -7.6 kcal mol^{-1}



A_2: -12.7 kcal mol^{-1}

Fig. S16 Geometries and corresponding ΔE_i values for dimers of **6** for the set A. Only the dimers with geometries significantly different are shown.

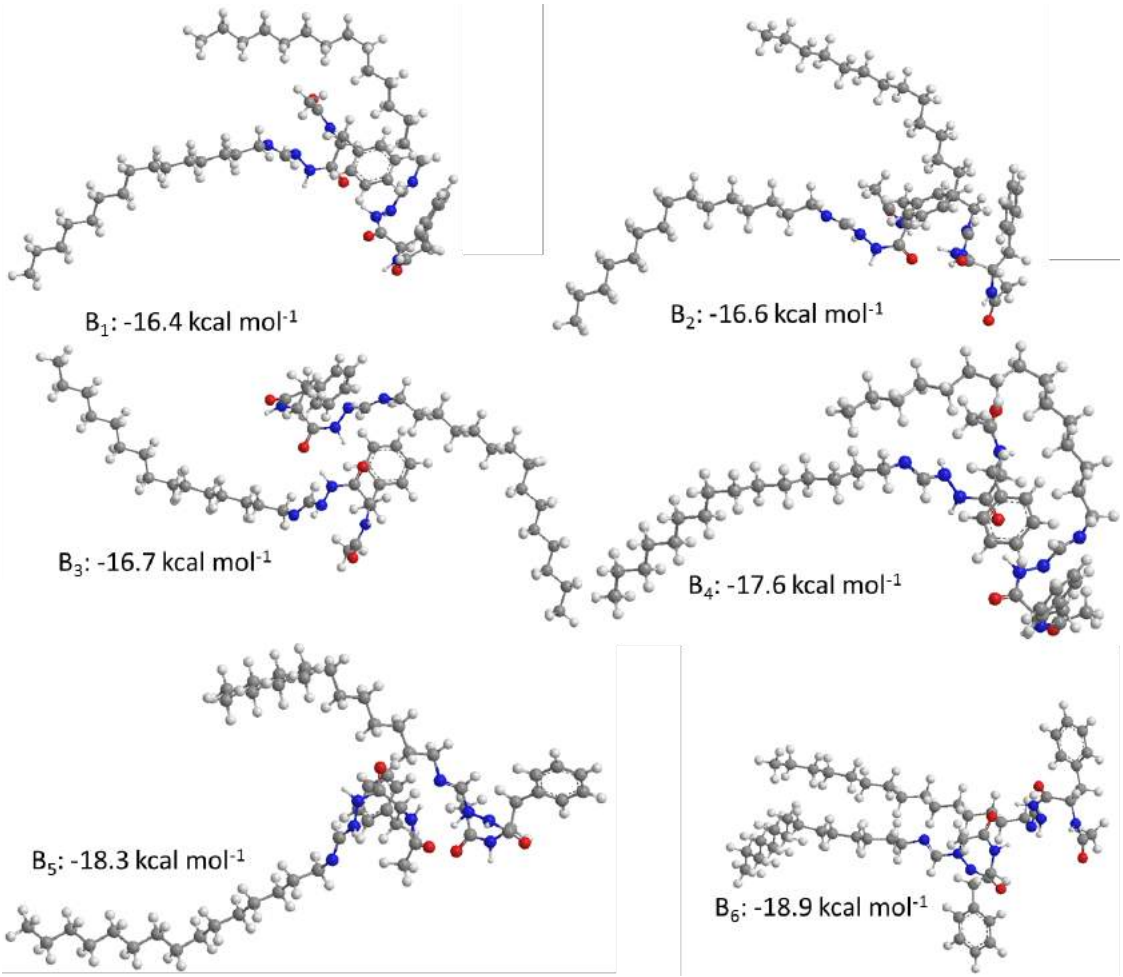


Fig. S17 Geometries and corresponding ΔE_i values for dimers of **6** for the set B. Only the dimers with geometries significantly different are shown.

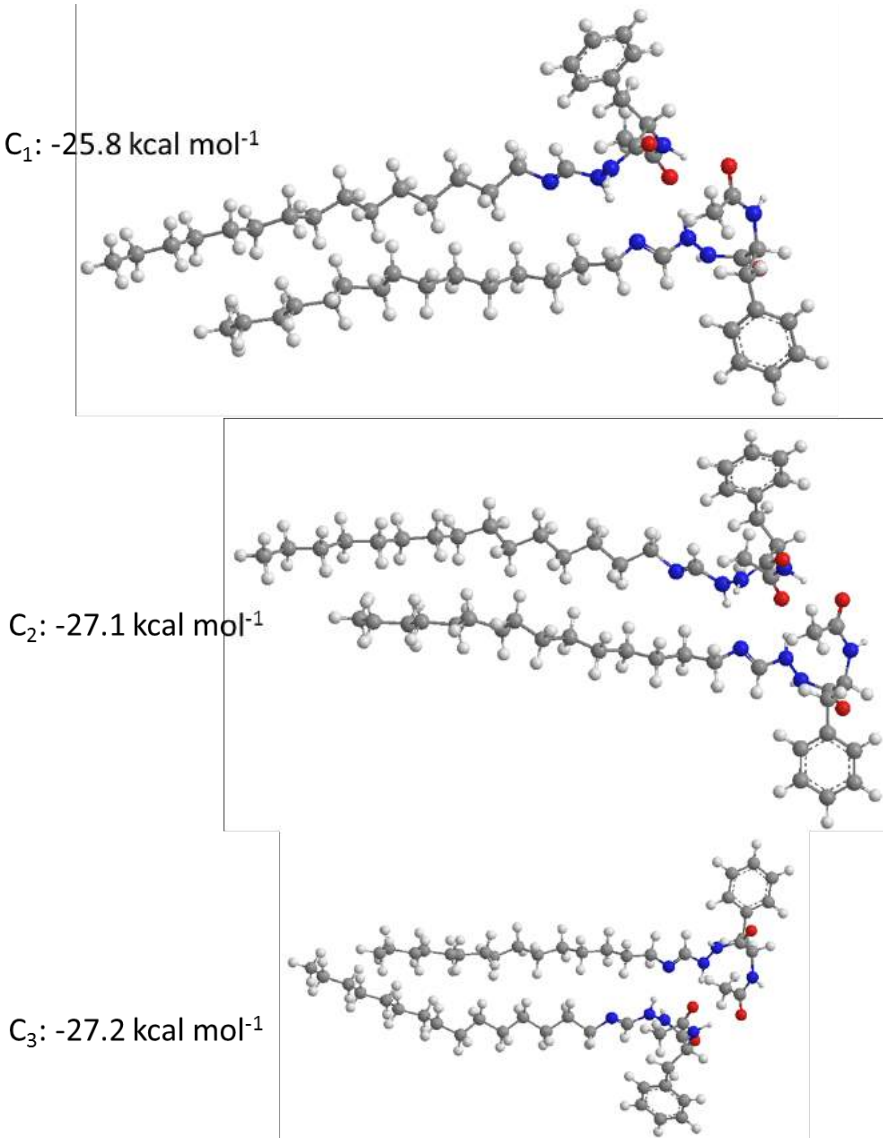


Fig. S18 Geometries and corresponding ΔE_i values for dimers of **6** for the set C. Only the dimers with geometries significantly different are shown.

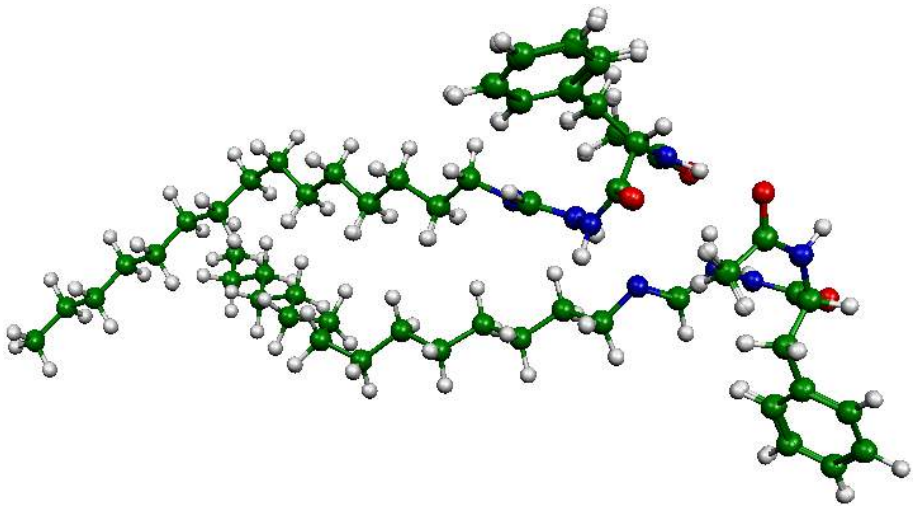


Fig. S19 Overlay of computed structures for dimer C_3 in toluene and acetonitrile.

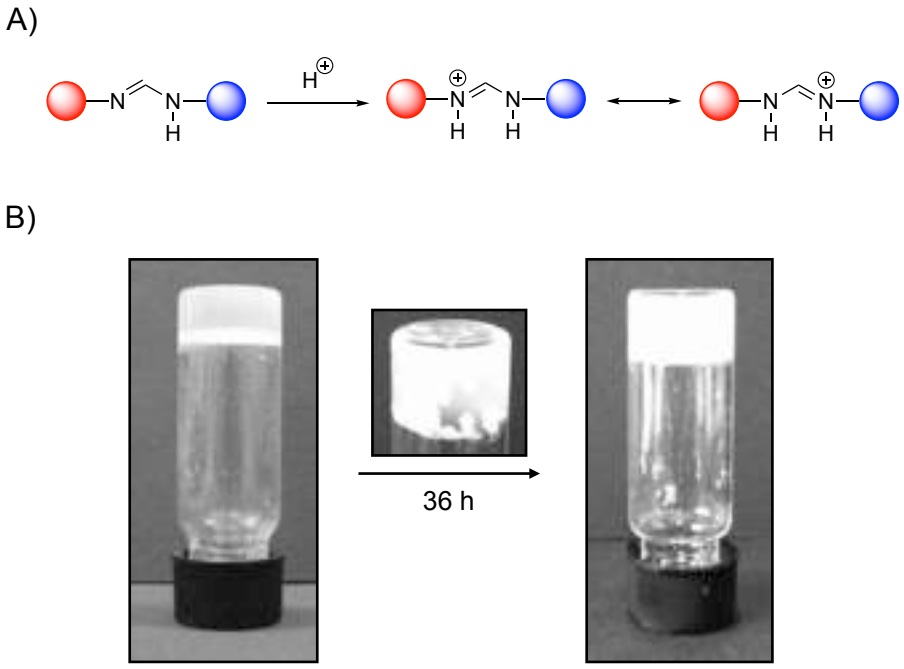


Fig. S20 A) Illustration of the protonation of a formamidine group at the most likely protonation site (imine nitrogen). B) Representative digital photographs showing the gradual change of the optical appearance of hydrogels from translucent to opaque.

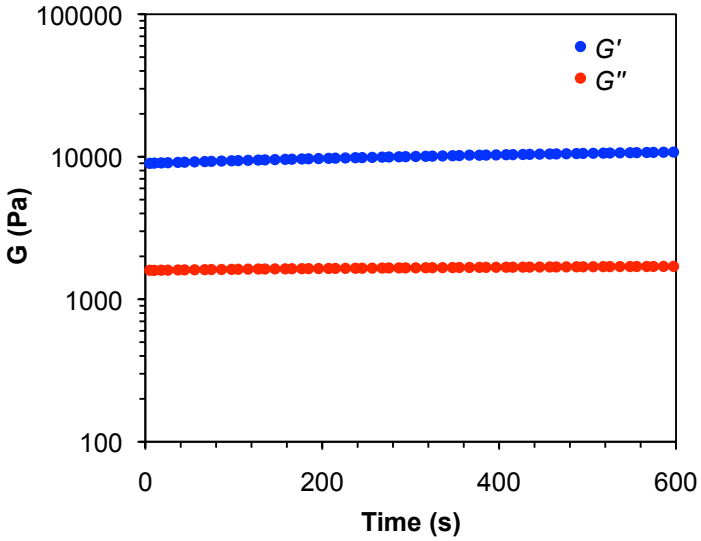


Fig. S21 DTS measurements for the hydrogel made of **6** (71 mg/mL) via pH gradient and ultrasound treatment. Average rheological data: G' = 11 ± 1.5 kPa, G'' = 1.5 ± 0.2 kPa, tan δ = 0.14 ± 0.04, critical strain at break = 10 ± 2.7 %.

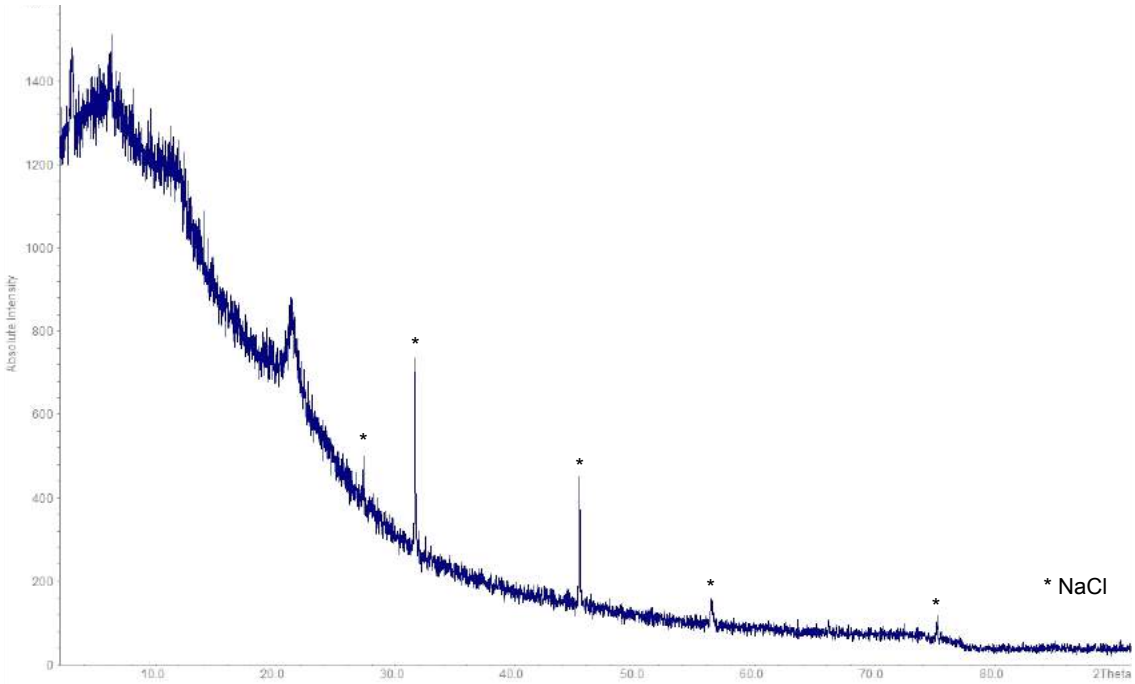


Fig. S22 PXRD pattern of the hydrogel made of **6** (71 mg/mL).

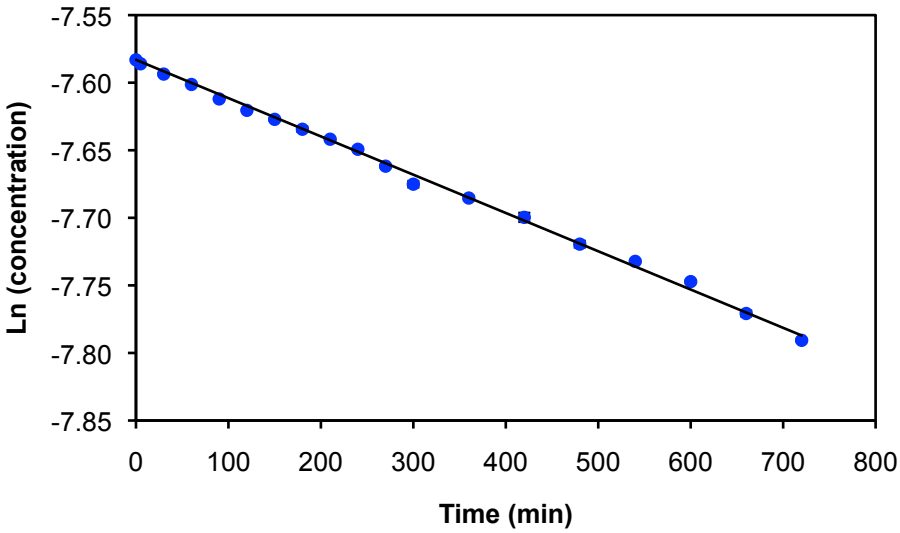


Fig. S23 Hydrolysis kinetics of compound **6** (initial concentration = 5.29×10^{-4} M) in 80% MeOH/citrate buffer (pH = 4.7) monitored every 30 min at 20 ± 1 °C. First order rate constant k_{obs} has been determined to be $2.83 \pm 0.012 \times 10^{-4}$ min^{-1} with a half-life of 41 ± 0.2 h.

6. Cartesian coordinates (computational studies)

A_1

6	6.728144	-6.228829	7.945406
6	6.823569	-5.356306	6.858217
6	8.058425	-5.216623	6.213508
6	9.165860	-5.939772	6.646161
6	9.058869	-6.812235	7.729269
6	7.836669	-6.953464	8.381438
6	5.615119	-4.590598	6.383137
6	5.228908	-4.990197	4.956669
7	4.128957	-4.244183	4.336594
6	3.018073	-3.576909	4.803674
8	2.116734	-3.317190	4.004155
6	5.037470	-6.505240	4.777293
7	3.943797	-7.103520	5.348843
7	2.983946	-6.413887	6.058796
6	2.872171	-6.643041	7.420254
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6	0.675175	-7.304093	9.942966
6	0.582269	-7.476070	11.450969
6	-0.623045	-8.298003	11.881376
6	-0.750184	-8.466336	13.387622
6	-1.965581	-9.283510	13.798706
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6	-3.472226	-11.619136	15.268733
6	-4.736415	-12.323920	15.736384
6	-4.827921	-13.774330	15.288326
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6	-6.196037	-15.921669	15.283571
6	-7.489705	-16.608793	15.696151
6	-7.558313	-18.062254	15.260501
8	5.826435	-7.172536	4.122160
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A_2

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6	6.244254	-12.070221	7.263319
6	7.031983	-11.275747	8.094375
6	5.919812	-13.381717	5.098222
6	4.453457	-12.961437	5.014128
7	3.629316	-13.625310	3.996974
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6	4.168851	-11.453285	4.913961
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7	5.561707	-11.289620	2.943208
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6	8.890637	-10.409988	1.819187
6	9.211545	-9.562020	0.600365
6	10.623169	-8.996632	0.608976
6	10.916498	-8.115826	-0.595591
6	12.346642	-7.600423	-0.642751
6	12.605237	-6.645431	-1.798441
6	14.049920	-6.172556	-1.884280
6	14.327115	-5.213178	-3.036345
6	13.645143	-3.858607	-2.899350
6	13.966663	-2.900647	-4.036262
6	13.318862	-1.533216	-3.879747
6	13.622262	-0.576456	-5.022194
6	12.986469	0.795024	-4.853060
6	13.281045	1.751514	-5.999232
6	12.645007	3.118562	-5.813478
8	3.373590	-10.918477	5.679958
8	2.861651	-14.620914	2.146019
8	4.797646	-12.425882	0.396203
6	4.745936	-11.638446	-0.545970
7	4.505508	-12.117198	-1.799862
7	4.382091	-11.310085	-2.916264
6	3.165094	-11.346351	-3.588476
7	3.079739	-11.028444	-4.814457
6	1.757902	-11.028111	-5.409174
6	1.700659	-11.981075	-6.593433
6	0.356919	-11.978566	-7.305328
6	0.313855	-12.937644	-8.485196
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6	-1.040946	-13.921944	-10.394575
6	-2.373840	-13.954433	-11.131203
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6	-2.122160	-16.309898	-12.108593
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6	-1.718014	-20.975818	-14.111218
6	-1.780338	-21.831799	-15.367958
6	-1.497704	-23.300608	-15.103711
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6	3.599103	-9.370188	-0.409686
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6	2.075316	-10.914025	0.902113
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6	1.270774	-10.317504	3.100135
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6	2.662691	-8.784797	1.856257
7	6.051943	-9.620931	-1.132928
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1	4.746037	-7.238277	-2.247917
1	5.291542	-7.786744	-3.834782
1	3.817158	-8.298036	-0.426980
1	3.058923	-9.603897	-1.333066
1	2.119657	-11.635113	0.087813
1	3.174680	-7.826409	1.780844
1	0.852786	-12.192888	2.117911
1	1.861271	-8.372476	3.812691
1	0.712430	-10.561882	3.999117
1	4.449526	-13.125969	-1.901852
1	5.200158	-11.292794	-3.518018
1	2.320047	-11.623932	-2.936620
1	1.537716	-10.009323	-5.757874
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1	-0.440373	-12.238330	-6.593161
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1	1.114276	-12.676728	-9.193362
1	0.551038	-13.953499	-8.135386
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1	5.868027	-13.885414	2.215599
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1	5.144871	-15.342050	1.526922

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1	6.631471	-10.931265	9.043642
1	8.934265	-10.296727	8.358200
1	4.338491	-9.816681	3.729878
1	5.111993	-11.654562	2.096107
1	7.161804	-10.226310	3.716833
1	9.584533	-11.264059	1.849648
1	9.073179	-9.830127	2.743856
1	9.078097	-10.173265	-0.304253
1	8.484032	-8.739936	0.528107
1	10.784337	-8.420475	1.532398
1	11.347012	-9.824725	0.646404
1	10.697257	-8.672741	-1.517758
1	10.220279	-7.264237	-0.599026
1	13.040234	-8.452440	-0.708003
1	12.588269	-7.096503	0.305606
1	12.327375	-7.133226	-2.744974
1	11.930744	-5.782955	-1.702873
1	14.331036	-5.690148	-0.935507
1	14.703634	-7.050991	-1.975299
1	15.410745	-5.054058	-3.125006
1	14.017115	-5.681578	-3.982695
1	13.941735	-3.400975	-1.942928
1	12.555410	-3.989487	-2.838830
1	15.057699	-2.780115	-4.114832
1	13.650648	-3.347695	-4.990664
1	12.229301	-1.654803	-3.785863
1	13.647026	-1.082678	-2.930941
1	14.712052	-0.462484	-5.123244
1	13.284041	-1.020720	-5.970278
1	13.330459	1.242423	-3.908358
1	11.897317	0.681359	-4.744432
1	14.369205	1.859468	-6.107907
1	12.933217	1.304342	-6.940734
1	11.555238	3.039764	-5.731768
1	13.003950	3.600482	-4.897202
1	12.865531	3.790674	-6.647782

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6	9.708876	-12.956876	7.136111
6	9.551782	-13.251660	5.783045
6	8.275559	-13.317476	5.228435
6	7.133681	-13.106486	6.011396
6	7.305924	-12.796391	7.365601
6	8.581365	-12.720792	7.921868
6	5.776158	-13.304032	5.385241
6	4.698164	-12.328650	5.854219
7	3.358565	-12.565145	5.313389
6	2.836755	-13.128513	4.172617
6	3.679760	-13.997962	3.279963
6	5.055589	-10.832124	5.745993
7	5.160091	-10.275315	4.506138
7	5.175396	-11.039831	3.352825
6	6.410985	-11.199697	2.742927
7	6.535900	-11.658790	1.562011
6	7.899583	-11.627848	1.049834
6	8.133610	-10.272884	0.398788
6	9.539492	-9.966302	-0.088645
6	9.626218	-8.506296	-0.511663
6	10.999531	-7.976365	-0.884682
6	10.930812	-6.510613	-1.287176
6	12.275095	-5.869171	-1.601477
6	12.155011	-4.485783	-2.232091
6	11.344409	-3.493062	-1.409725
6	11.298340	-2.098224	-2.013907
6	10.417729	-1.134659	-1.233046
6	10.353644	0.261843	-1.831551
6	9.474988	1.222370	-1.045055
6	9.401306	2.617551	-1.648377
6	8.523965	3.566471	-0.850117
8	5.169047	-10.141786	6.754767
8	1.642347	-12.949554	3.928991
8	5.409526	-7.729910	2.836980
6	6.001717	-6.668428	2.658503
7	5.496629	-5.511730	3.178170
7	6.111664	-4.283046	3.034725
6	6.537098	-3.633760	4.186744
7	6.755701	-2.383396	4.191819
6	7.277537	-1.798495	5.410938
6	6.377121	-0.673854	5.897534
6	6.930948	0.064906	7.106333
6	6.044451	1.219243	7.547072
6	6.591057	2.002414	8.731311
6	5.721008	3.186250	9.123849
6	6.279658	3.987886	10.292837
6	5.499942	5.257530	10.610409
6	4.066121	5.022106	11.066889
6	3.337743	6.305873	11.432986
6	1.905012	6.089709	11.895731
6	1.177644	7.379162	12.243366
6	-0.255786	7.168548	12.706193
6	-0.984378	8.461371	13.042476
6	-2.415239	8.238343	13.500882
6	7.317952	-6.617837	1.869171
6	8.535526	-6.450744	2.791122
6	8.637465	-7.592648	3.764706
6	7.907763	-7.585609	4.958267
6	7.964826	-8.664378	5.836462
6	8.764312	-9.764746	5.534101
6	9.507342	-9.779408	4.354017
6	9.437833	-8.702013	3.472658
7	7.255720	-5.745859	0.700307
6	7.886090	-4.591890	0.294148
6	8.819739	-3.855164	1.214277
8	7.667913	-4.181171	-0.846073
1	7.380171	-7.637213	1.469684
1	6.712225	-6.132732	-0.061740
1	8.402925	-3.701283	2.210403
1	9.766692	-4.394408	1.320094
1	9.036388	-2.887755	0.761240
1	9.430810	-6.426803	2.158205
1	8.490737	-5.498120	3.326813
1	7.283129	-6.726220	5.201112
1	10.015917	-8.710793	2.548247
1	7.372262	-8.659660	6.746123
1	10.133776	-10.637058	4.119866
1	8.806079	-10.608088	6.217489
1	4.588556	-5.566935	3.629894
1	5.717365	-3.685009	2.315470
1	6.706169	-4.320640	5.032770
1	8.273294	-1.386844	5.192912
1	7.414836	-2.551497	6.208848
1	6.223259	0.030666	5.069572
1	5.384704	-1.083403	6.131907
1	7.067606	-0.636082	7.943095
1	7.935717	0.447297	6.872265
1	5.898337	1.903640	6.698097
1	5.042204	0.837147	7.791827
1	7.604536	2.360094	8.494615
1	6.709685	1.331119	9.594910
1	5.601041	3.850764	8.254333
1	4.709672	2.827293	9.362343
1	6.317879	3.347571	11.186832
1	7.323313	4.251266	10.072041
1	6.029261	5.823917	11.388980
1	5.493028	5.908557	9.723165
1	4.066871	4.341087	11.931824
1	3.501965	4.500623	10.280443

1	3.899035	6.832021	12.219802
1	3.342020	6.984214	10.566457
1	1.345738	5.555371	11.113150
1	1.900207	5.420710	12.769338
1	1.737486	7.914794	13.024668
1	1.183440	8.046528	11.368423
1	-0.263087	6.507322	13.585829
1	-0.814840	6.627598	11.927913
1	-0.424449	8.999299	13.820039
1	-0.974546	9.119777	12.162707
1	-3.003564	7.731148	12.728147
1	-2.450851	7.611126	14.398510
1	-2.921864	9.178864	13.736449
1	4.595411	-12.459331	6.937543
1	2.638653	-12.044365	5.799518
1	4.462896	-13.428414	2.773294
1	4.161804	-14.805435	3.834687
1	3.021634	-14.429156	2.527108
1	5.418870	-14.314761	5.626972
1	5.892320	-13.273730	4.301510
1	8.155285	-13.547854	4.170106
1	6.441575	-12.608407	7.997751
1	10.422779	-13.427401	5.156809
1	8.693370	-12.477846	8.975009
1	10.701737	-12.900166	7.573244
1	5.379211	-9.283734	4.422485
1	4.393578	-10.866605	2.730152
1	7.248094	-10.920345	3.406293
1	8.031372	-12.441734	0.327295
1	8.649383	-11.775986	1.849152
1	7.411116	-10.133565	-0.416740
1	7.867448	-9.522739	1.158423
1	10.264685	-10.166430	0.715783
1	9.822751	-10.625657	-0.920407
1	8.930485	-8.330837	-1.346384
1	9.238300	-7.887289	0.312829
1	11.429217	-8.569995	-1.704357
1	11.686507	-8.098846	-0.032725
1	10.261838	-6.406870	-2.155734
1	10.434637	-5.949160	-0.480164
1	12.870153	-5.804593	-0.678150
1	12.840816	-6.527936	-2.274674
1	13.159064	-4.076724	-2.410938
1	11.690794	-4.582213	-3.224824
1	11.755947	-3.438055	-0.388532
1	10.313551	-3.857614	-1.298856
1	12.317815	-1.690352	-2.088827
1	10.930269	-2.166086	-3.048527
1	9.401439	-1.551971	-1.168229
1	10.780059	-1.069323	-0.194908
1	11.370696	0.675742	-1.905990
1	9.986114	0.196624	-2.866511
1	9.844942	1.292247	-0.010854
1	8.459673	0.805968	-0.965846
1	10.416778	3.029743	-1.730041
1	9.028467	2.544883	-2.679450
1	7.497470	3.190097	-0.778337
1	8.897282	3.683869	0.173382
1	8.479051	4.562300	-1.300803

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6	4.408292	-8.520968	0.780373
8	3.906555	-9.384702	1.496176
6	5.925364	-8.432986	0.579064
1	6.287795	-9.322040	1.109359
7	6.298093	-8.645666	-0.817974
1	6.229294	-9.617542	-1.096890
6	6.985192	-7.928305	-1.768461
8	7.324230	-8.503189	-2.802938
6	7.306567	-6.475611	-1.553143
1	6.511648	-5.921435	-1.054483
1	8.220317	-6.377583	-0.957988
1	7.500793	-6.031234	-2.528950
6	6.542148	-7.227147	1.306094
1	7.606995	-7.188429	1.049181
1	6.093645	-6.288143	0.968461
6	6.388339	-7.376958	2.796547
6	5.225188	-6.949976	3.448783
6	7.389940	-7.993095	3.553654
6	5.063170	-7.144427	4.819244
1	4.436318	-6.465958	2.873609
6	7.232194	-8.190169	4.924892
1	8.302322	-8.328514	3.058436
6	6.066303	-7.768136	5.559948
1	4.147637	-6.822827	5.307536
1	8.014710	-8.685632	5.496236
1	5.930696	-7.942038	6.623628
7	3.607790	-7.609874	0.152759
1	2.604707	-7.752122	0.224453
7	4.096281	-6.647334	-0.709956
1	4.037087	-6.879222	-1.696400
6	3.872008	-5.317044	-0.385160
1	3.700714	-5.160539	0.693229
7	3.931607	-4.401599	-1.263027
6	3.786293	-3.034906	-0.803404
6	2.681881	-2.311148	-1.557622
1	4.737242	-2.512245	-0.981288
1	3.598204	-2.981539	0.285095
6	2.542033	-0.854892	-1.142844
1	2.887557	-2.378350	-2.633915
1	1.730511	-2.837453	-1.398567
6	1.473590	-0.107317	-1.925839
1	2.314408	-0.797628	-0.067885
1	3.508712	-0.344442	-1.267701
1	1.715329	-0.147258	-2.998247
1	0.511016	-0.629733	-1.821325
6	1.306897	1.342997	-1.499117
6	0.261781	2.097382	-2.306682
1	2.274229	1.861220	-1.579542
1	1.040783	1.380440	-0.432048
6	0.069773	3.537614	-1.849912
1	0.545421	2.087754	-3.370312
1	-0.693842	1.556925	-2.251365
6	-0.877965	4.351487	-2.722952
1	-0.295968	3.539856	-0.812140
1	1.049808	4.033774	-1.820190
1	-0.902442	5.389137	-2.362430
1	-0.475754	4.402395	-3.745955
6	-2.302138	3.814966	-2.775041
6	-3.249116	4.693590	-3.578317
1	-2.687411	3.702820	-1.749765
1	-2.305378	2.802827	-3.203932
6	-4.665077	4.144867	-3.661570
1	-3.272340	5.702874	-3.140607
1	-2.849006	4.823518	-4.595197
6	-5.612867	5.014901	-4.472865
1	-4.637610	3.134380	-4.096339
1	-5.067455	4.016398	-2.645478
1	-5.648438	6.023733	-4.034990
1	-5.206309	5.148691	-5.486608
6	-7.023833	4.455236	-4.566289
6	-7.972880	5.320065	-5.383292
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1	-9.821837	4.636059	-4.475543
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6	4.426279	-11.018531	5.298941
8	3.822048	-10.269824	6.062592

6	4.731595	-12.470778	5.713559
1	4.389272	-12.482963	6.755416
7	3.830185	-13.384051	5.008968
1	2.854627	-13.214087	5.221746
6	3.934062	-14.277606	3.969079
8	2.896733	-14.735524	3.488560
6	5.277650	-14.736415	3.473980
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1	5.108406	-15.534680	2.752804
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1	6.585405	-13.018408	4.714057
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6	6.767687	-11.191787	2.905821
1	7.277009	-10.794152	3.797081
7	7.341210	-11.497898	1.810266
6	8.770353	-11.246232	1.750147
6	9.066182	-10.165368	0.721136
1	9.285231	-12.175101	1.469243
1	9.176701	-10.938772	2.733611
6	10.526690	-9.758428	0.629113
1	8.699299	-10.486807	-0.262704
1	8.472994	-9.276648	0.980091
6	10.716844	-8.544381	-0.267984
1	10.912715	-9.533896	1.635522
1	11.130631	-10.597891	0.256734
1	10.280106	-8.750060	-1.256671
1	10.129917	-7.706893	0.144340
6	12.162464	-8.107252	-0.435621
6	12.324621	-6.905006	-1.353528
1	12.752942	-8.947139	-0.830728
1	12.595869	-7.879379	0.549868
6	13.774454	-6.470394	-1.523088
1	11.897143	-7.142223	-2.339832
1	11.723085	-6.070164	-0.964722
6	13.984671	-5.372440	-2.558395
1	14.168643	-6.138012	-0.550939
1	14.374117	-7.347967	-1.801493
1	15.060998	-5.182629	-2.671774
1	13.641033	-5.730301	-3.540504
6	13.285641	-4.058796	-2.235657
6	13.584559	-2.958575	-3.242569
1	13.583069	-3.725326	-1.229311
1	12.198415	-4.214896	-2.186454
6	12.894382	-1.639103	-2.933568
1	14.671940	-2.797684	-3.293810
1	13.290606	-3.296676	-4.247608
6	13.193233	-0.544379	-3.946412
1	11.807038	-1.799416	-2.880319
1	13.190966	-1.298578	-1.930012
1	14.280986	-0.388623	-4.004125
1	12.891942	-0.883890	-4.948784
6	12.511157	0.779093	-3.637046
6	12.806567	1.870672	-4.655634
1	12.816086	1.122409	-2.636897
1	11.423390	0.624336	-3.575080
6	12.124502	3.188704	-4.332453
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1	12.497586	1.526458	-5.652405
1	11.035759	3.072060	-4.292963
1	12.444305	3.570953	-3.356684
1	12.346373	3.959074	-5.076704

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6	2.789638	-11.575496	6.695146
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6	3.083383	-12.871772	4.694803
6	4.372462	-13.209607	5.093745
6	4.878977	-12.729080	6.301117
6	4.079864	-11.916051	7.101618
6	0.883055	-11.710490	5.005619
6	0.336512	-10.379324	5.517999
7	-1.075692	-10.174171	5.197685
6	-1.701052	-10.007258	3.989950
6	-0.896400	-10.185302	2.733317
6	1.114394	-9.062662	5.316795
8	0.833351	-8.126538	6.079975
7	2.054946	-8.860136	4.364553
7	2.518388	-9.801622	3.441964
6	3.889026	-10.067841	3.545887
7	4.587269	-10.311774	2.515438
6	5.986004	-10.620031	2.739632
6	6.867199	-9.468456	2.276811
6	8.349719	-9.796039	2.337306
6	9.244867	-8.617888	1.986846
6	10.726350	-8.931851	2.123839
6	11.642570	-7.751529	1.840986
6	13.118610	-8.109749	1.950001
6	14.076709	-6.977749	1.601540
6	13.990725	-5.771597	2.527851
6	15.076063	-4.738492	2.266800
6	15.010105	-3.530676	3.188882
6	16.129792	-2.527750	2.957337
6	16.072141	-1.320866	3.880981
6	17.206725	-0.330575	3.662008
6	17.137827	0.870086	4.589840
8	-2.902572	-9.751702	3.954011
8	3.631726	-6.475955	4.294762
6	3.636199	-5.784841	5.319932
7	2.614826	-5.881710	6.207588
7	2.595872	-5.186673	7.409136
6	2.654399	-5.945068	8.571496
7	2.233202	-5.497230	9.682543
6	2.425108	-6.339812	10.845589
6	1.094933	-6.769700	11.446532
6	1.263864	-7.561481	12.733661
6	-0.050233	-8.054814	13.319974
6	0.119650	-8.814198	14.626706
6	-1.182075	-9.357138	15.196436
6	-0.996017	-10.088033	16.519273
6	-2.285265	-10.610476	17.141769
6	-2.983570	-11.690749	16.326123
6	-4.199327	-12.280536	17.024316
6	-4.889332	-13.377574	16.228052
6	-6.089437	-13.983972	16.938793
6	-6.770799	-15.092065	16.150624
6	-7.962365	-15.708238	16.869218
6	-8.629703	-16.817390	16.074330
6	4.793923	-4.814063	5.586174
7	4.337986	-3.432225	5.706899
6	4.173777	-2.530135	6.732250
6	4.702135	-2.822314	8.109846
6	5.727449	-5.323940	6.693231
6	6.365625	-6.644660	6.349650
6	7.650629	-6.685754	5.798222
6	8.270558	-7.900921	5.514012
6	7.606864	-9.097710	5.774680

6	6.318100	-9.070811	6.301842
6	5.703283	-7.854703	6.587141
8	3.616973	-1.461059	6.481450
1	5.366389	-4.859860	4.651995
1	3.954381	-3.059035	4.847452
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1	5.784235	-2.970858	8.101944
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1	6.511279	-4.573099	6.835865
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1	3.032982	-7.234394	10.613507
1	0.481797	-5.877957	11.629445
1	0.545578	-7.367950	10.706187
1	1.924692	-8.422729	12.552999
1	1.785404	-6.941063	13.477599
1	-0.724104	-7.200137	13.478055
1	-0.557625	-8.698024	12.585614
1	0.597809	-8.157807	15.369218
1	0.823292	-9.646711	14.475280
1	-1.895672	-8.530738	15.334917
1	-1.644571	-10.026864	14.457745
1	-0.299292	-10.927061	16.371443
1	-0.498450	-9.411722	17.228018
1	-2.066163	-11.011157	18.141216
1	-2.980063	-9.772881	17.303570
1	-2.265707	-12.495396	16.103848
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1	-4.920661	-11.479008	17.243093
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1	-5.772546	-14.375845	17.917028
1	-6.820570	-13.192660	17.162101
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1	-8.998292	-16.447790	15.111032
1	-7.925558	-17.629392	15.861341
1	-9.480459	-17.250601	16.608404
1	0.331607	-10.448759	6.610181
1	-1.678335	-9.951304	5.977428
1	0.169614	-9.999440	2.864111
1	-1.013223	-11.211598	2.372248
1	-1.295087	-9.519542	1.968159
1	0.177036	-12.474940	5.358010
1	0.865881	-11.765564	3.915392
1	2.703798	-13.226265	3.738377
1	2.193895	-10.933772	7.341053
1	4.988373	-13.835719	4.453766
1	4.461713	-11.537465	8.046472
1	5.888863	-12.982668	6.613047
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1	6.197760	-10.839292	3.803222
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1	10.924339	-9.306759	3.140416
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1	13.320246	-8.969258	1.295921
1	15.106215	-7.361569	1.618997
1	13.899151	-6.652385	0.565606
1	14.057308	-6.112339	3.572836
1	13.005190	-5.293388	2.434975
1	16.061302	-5.218192	2.367427
1	15.019144	-4.402988	1.220427
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1	16.106186	-2.187898	1.911105
1	16.083542	-1.661420	4.927365
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1	17.195044	0.006273	2.616143
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6	8.818419	-6.364743	2.700917
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6	9.501647	-9.976547	-0.318474
6	10.095100	-8.578494	-0.414955
6	11.610268	-8.465871	-0.380312
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1	6.752633	-13.117964	3.287664
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1	7.791934	-11.585978	1.147342
1	7.525825	-9.483008	-1.059664
1	7.785141	-9.152229	0.640211
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1	10.449890	1.384290	6.536832

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6	15.916261	-7.922184	1.473526
6	15.622405	-7.170666	2.611080
6	11.843933	-6.796756	2.336953
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6	9.099226	-5.204863	2.694605
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7	10.096277	-5.991172	-0.261201
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6	6.890416	-4.552281	0.138685
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7	6.626677	-5.882793	0.235165
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6	4.821984	-7.554725	0.134689
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6	5.024471	-5.993413	2.200214
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6	4.585491	-8.173362	3.446843
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6	2.913979	-6.448260	3.478423
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7	3.673954	-5.570681	-0.635192
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7	2.172246	-3.899672	-0.048791
6	1.049877	-3.518214	0.786029
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6	-2.390037	-1.840069	0.054471
6	-3.562586	-1.420588	0.927595
6	-4.694201	-0.755511	0.159191
6	-5.869933	-0.363264	1.044229
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6	-7.640383	-0.360802	-0.805534
6	-8.796173	0.392728	-1.446106
6	-9.457295	-0.363737	-2.588079
6	-10.608520	0.390115	-3.236131
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1	6.113166	-3.497034	1.821122
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1	-11.366464	0.624697	-2.473888
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1	-11.627824	-1.337630	-4.018491
1	-10.504666	-0.602154	-5.143424
1	-13.168399	0.624955	-4.274436
1	-12.044618	1.361420	-5.396564
1	-12.323502	-0.592574	-6.968066
1	-13.456794	-1.333800	-5.838516
1	-13.874839	0.184209	-6.638269
1	12.387146	-4.772826	2.663764
1	10.350250	-3.711616	2.420794
1	8.914942	-7.148874	1.767804
1	9.503521	-7.207721	3.433584
1	7.808179	-6.812256	3.115787
1	11.607149	-6.974735	3.392350
1	11.157704	-7.403067	1.739405
1	12.764449	-8.280756	0.252644
1	14.082953	-6.231683	3.784277
1	15.105255	-8.909179	-0.260665
1	16.421013	-6.857092	3.277607
1	16.943596	-8.194717	1.249959
1	11.583652	-5.046062	-1.339353
1	9.306680	-5.325838	-0.332039
1	10.786909	-7.819852	-0.999405
1	8.032092	-9.667944	-0.435367
1	9.437522	-9.582946	-1.508413
1	6.647128	-8.519698	-2.188306
1	8.011555	-8.591515	-3.290782
1	8.012459	-11.104810	-3.107313
1	6.654611	-11.017057	-1.997756
1	5.250774	-9.960937	-3.760958
1	6.607162	-9.962360	-4.871248
1	5.324097	-12.472265	-3.676719
1	6.687452	-12.466512	-4.777487
1	3.895855	-11.381062	-5.414881
1	5.267523	-11.303877	-6.502157
1	5.404387	-13.785393	-6.557228
1	4.117640	-13.905079	-5.373006
1	3.208107	-14.350290	-7.588295
1	2.509279	-12.870045	-6.963950
1	4.847912	-12.976839	-8.935525
1	4.061181	-11.516966	-8.370272
1	2.693675	-13.735229	-9.969918
1	1.894422	-12.295816	-9.372169
1	3.455066	-10.867741	-10.728559
1	4.241918	-12.308903	-11.338209
1	2.076407	-13.060500	-12.360822
1	1.284890	-11.626452	-11.740434
1	3.620466	-11.621749	-13.721156
1	2.837852	-10.186231	-13.093353
1	1.448672	-12.363944	-14.731808
1	0.664776	-10.932167	-14.100004
1	2.191198	-9.476520	-15.484765
1	2.981366	-10.918355	-16.121757
1	1.286873	-10.600132	-16.503859

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6	1.767146	-10.175194	1.692380
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6	0.125602	-11.936581	0.298871
6	0.001041	-11.820445	1.681391
6	0.823938	-10.935616	2.377227
6	2.957340	-9.495549	-0.425649
6	4.338145	-10.135658	-0.235052
7	5.499837	-9.410155	-0.750629

6	5.687618	-8.349610	-1.590266
8	6.844821	-7.960380	-1.805743
6	4.336690	-11.602451	-0.687688
7	4.183598	-11.876494	-2.025838
7	4.349493	-10.909455	-3.009793
6	3.412844	-10.908548	-4.034668
7	3.728460	-10.548187	-5.211576
6	2.656238	-10.458030	-6.182052
6	2.795888	-11.511365	-7.271792
6	1.840022	-11.272741	-8.429143
6	1.815539	-12.401383	-9.448049
6	1.023006	-12.056045	-10.698328
6	1.001428	-13.159422	-11.744432
6	0.363559	-12.719170	-13.055941
6	0.535061	-13.705314	-14.203616
6	-0.122722	-15.060772	-13.981664
6	-0.022687	-15.975505	-15.192749
6	-0.673543	-17.335769	-14.993852
6	-0.584900	-18.234375	-16.217846
6	-1.235947	-19.595716	-16.028128
6	-1.151740	-20.487793	-17.258316
6	-1.803356	-21.845051	-17.056910
8	4.425762	-12.521050	0.113810
6	4.530106	-7.653860	-2.248563
7	8.654705	-8.385212	0.650447
6	8.966515	-9.379197	-0.261548
7	8.377353	-10.508527	-0.262527
6	8.809340	-11.449067	-1.283360
6	7.737235	-11.575290	-2.358669
6	8.135884	-12.450464	-3.536313
6	7.080485	-12.478474	-4.633570
6	7.489555	-13.282245	-5.857277
6	6.482673	-13.235566	-6.997396
6	6.926661	-14.064485	-8.194990
6	5.965802	-14.064360	-9.376621
6	5.738145	-12.698041	-10.013874
6	5.073389	-12.788997	-11.380631
6	4.582300	-11.455814	-11.922260
6	3.992341	-11.552061	-13.321759
6	3.297618	-10.283279	-13.788442
6	2.726555	-10.388644	-15.195557
6	1.900216	-9.178755	-15.594956
7	8.770495	-7.087727	0.161874
6	9.473794	-6.104989	0.797559
8	9.484066	-4.964526	0.349928
6	10.240328	-6.456612	2.084702
7	9.330703	-6.883776	3.146653
6	9.032921	-8.064552	3.780977
8	8.063815	-8.092119	4.541915
6	11.462062	-7.341852	1.814468
6	12.382032	-6.690075	0.816311
6	12.399501	-7.106024	-0.517294
6	13.222780	-6.480155	-1.450912
6	14.042605	-5.424639	-1.059032
6	14.034503	-5.000483	0.269495
6	13.209483	-5.628605	1.197635
6	9.893035	-9.281850	3.582612
1	4.496323	-10.222684	0.847087
1	6.389021	-9.810485	-0.441343
1	3.935442	-8.342807	-2.851947
1	3.864714	-7.186691	-1.519743
1	4.936737	-6.877345	-2.894618
1	2.997653	-8.474295	-0.031433
1	2.702380	-9.430254	-1.487163
1	1.169105	-11.266346	-1.462775
1	2.409108	-9.487234	2.240151
1	-0.512875	-12.622799	-0.250644
1	0.731250	-10.838184	3.455093
1	-0.734925	-12.415219	2.214877
1	4.320883	-12.850714	-2.283904
1	5.310114	-10.813159	-3.339261
1	2.401263	-11.191370	-3.699843
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1	2.119613	-10.335553	-8.934263
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1	1.408552	-13.311652	-8.983616
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1	-0.007206	-11.785559	-10.422627
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1	-0.479350	-15.477359	-16.061235
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1	-0.209225	-17.842069	-14.134389
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1	-1.048719	-17.725501	-17.076167
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1	-2.291663	-19.460149	-15.748596
1	-0.769471	-20.108888	-15.173765
1	-1.619226	-19.972750	-18.108977
1	-0.096802	-20.619714	-17.536372
1	-1.330290	-22.392650	-16.234290
1	-2.865350	-21.741374	-16.807771
1	-1.734512	-22.470530	-17.951638
1	10.629643	-5.480767	2.399458
1	8.675199	-6.163012	3.423332
1	9.847665	-9.642042	2.552369
1	10.940541	-9.085660	3.820341
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1	11.987025	-7.492135	2.764870
1	11.159265	-8.326386	1.448705
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1	13.206637	-5.294089	2.233762
1	13.221784	-6.816066	-2.484009
1	14.671850	-4.178091	0.582342
1	14.685645	-4.934376	-1.784417
1	8.194426	-6.851627	-0.645173
1	7.785994	-8.550772	1.154619
1	9.772295	-9.088823	-0.952786
1	8.986029	-12.426669	-0.817665
1	9.759746	-11.137060	-1.750606
1	6.821788	-11.967565	-1.892892
1	7.501018	-10.561184	-2.718365
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1	8.341941	-13.473465	-3.190608
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1	6.849062	-11.447154	-4.943723
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1	8.459355	-12.911831	-6.221479
1	5.501275	-13.588275	-6.643421
1	6.326952	-12.188983	-7.297491
1	7.907730	-13.698722	-8.534457
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1	4.994231	-14.480714	-9.067277
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1	5.122265	-12.070616	-9.350905
1	5.774031	-13.246041	-12.094979
1	4.221534	-13.485762	-11.326744
1	3.825224	-11.046938	-11.233451
1	5.404854	-10.725321	-11.917166
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1	1.509026	-9.265551	-16.612761

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6	16.658271	-6.045303	-1.035666
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8	12.812239	-7.043279	0.569584
7	12.369524	-4.860263	0.251333
7	11.752667	-3.841160	-0.462364
6	12.530657	-2.760477	-0.804395
7	12.026581	-1.632384	-1.129223
6	12.958361	-0.600575	-1.554252
6	13.040362	0.522672	-0.531396
6	13.738542	1.765031	-1.064393
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6	14.067070	4.273517	-0.757319
6	13.695027	5.506898	0.051828
6	14.152054	6.802045	-0.602222
6	13.729666	8.070132	0.127398
6	14.276975	8.189728	1.546182
6	14.260000	9.618572	2.065791
6	14.788541	9.779301	3.483802
6	15.087442	11.227546	3.835760
6	15.507636	11.459861	5.277326
6	15.788051	12.927165	5.572022
6	15.983397	13.227630	7.047095
8	8.865979	-4.978786	-2.390140
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6	8.457282	-2.467780	0.330348
6	7.836495	-1.467607	1.261169
7	8.101823	-2.545271	-0.976812
6	7.343798	-1.706850	-1.902464
6	8.277431	-1.049293	-2.934693
8	8.193885	-1.310957	-4.126992
6	6.344163	-0.710639	-1.306096
6	5.559253	-0.020758	-2.391228
6	5.830784	1.305576	-2.735541
6	5.132969	1.937519	-3.762395
6	4.147031	1.245235	-4.461312
6	3.863473	-0.078260	-4.125105
6	4.564772	-0.705207	-3.099207
7	9.193997	-0.121833	-2.502695
7	9.518674	0.075630	-1.173002
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7	9.720729	1.677188	0.505131
6	9.177534	2.897933	1.068458
6	10.241434	3.942802	1.371129
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1	9.851208	0.198137	-3.207576
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1	8.492420	1.871838	-1.194492
1	8.679068	2.631680	2.013295
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1	11.601289	-4.666829	-4.112246
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1	12.949627	-6.184909	-3.617370
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1	15.076766	-4.587605	-1.117060
1	14.347239	-8.258010	-3.215604
1	17.302050	-5.420087	-0.423357
1	16.569429	-9.096776	-2.523611
1	18.054037	-7.684145	-1.118191
1	12.485879	-4.727196	1.251500
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1	12.594285	-0.186439	-2.506871
1	13.962394	-1.011431	-1.759130
1	12.023186	0.793047	-0.215680
1	13.539502	0.154701	0.375449
1	14.809583	1.571422	-1.221412

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1	15.160288	4.220525	-0.869551
1	12.602299	5.533774	0.188897
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1	13.715972	7.534946	2.230273
1	14.861062	10.242811	1.387057
1	13.238336	10.026953	2.005793
1	14.062240	9.363973	4.200419
1	15.701605	9.177640	3.606146
1	15.868180	11.608676	3.160437
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1	16.820202	12.656962	7.464793
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6	6.019274	-7.694635	1.762940
6	5.825596	-8.613570	0.539564
7	5.343504	-8.083510	-0.628354
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