Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting Info

Zwitterionic poly(2-oxazoline)s as promising candidates for blood contacting applications

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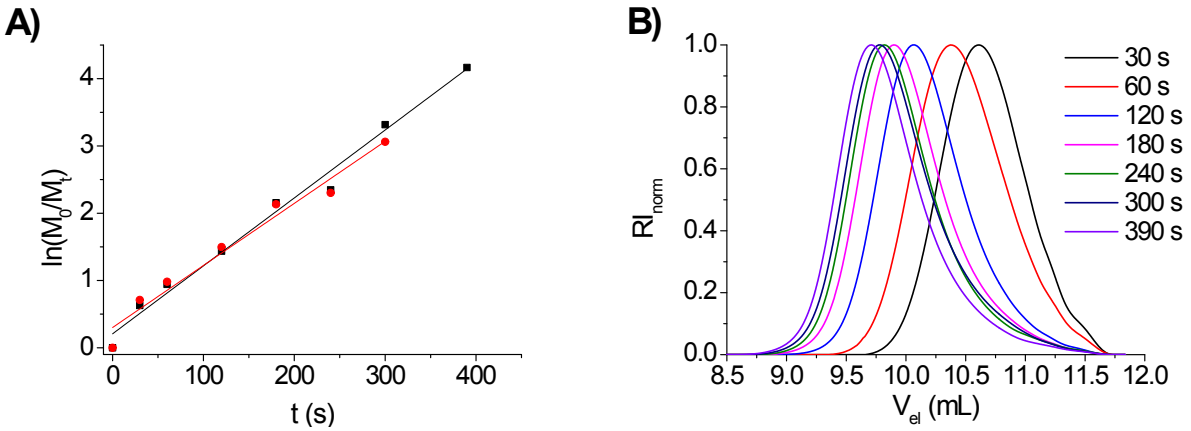

Figure S1. A) First-order kinetic plots of the copolymerization of EtOx (square) and ButEnOx (circle) at 140 °C with a total monomer concentration of 1 M and a [EtOx]:[ButEnOx]:[MeOTs] ratio of 16:4:1. B) SEC curves kinetic study after different times.

Table S1. Data of the kinetic study.

Time	Conversion of EtOx:ButEnOx (%)[a)]	M_n (g/mol)[b)]	PDI[b)]
30	47:51	900	1.22
60	61:63	1,115	1.25
120	76:78	1,590	1.22
180	88:88	1,850	1.23
240	90:90	1,980	1.23
300	96:95	2,020	1.24
390	98:100	2,250	1.23

[a)]Determined by GC. [b)]Determined by SEC (chloroform/TEA/2-propanol 94:4:2, calibration against PS).

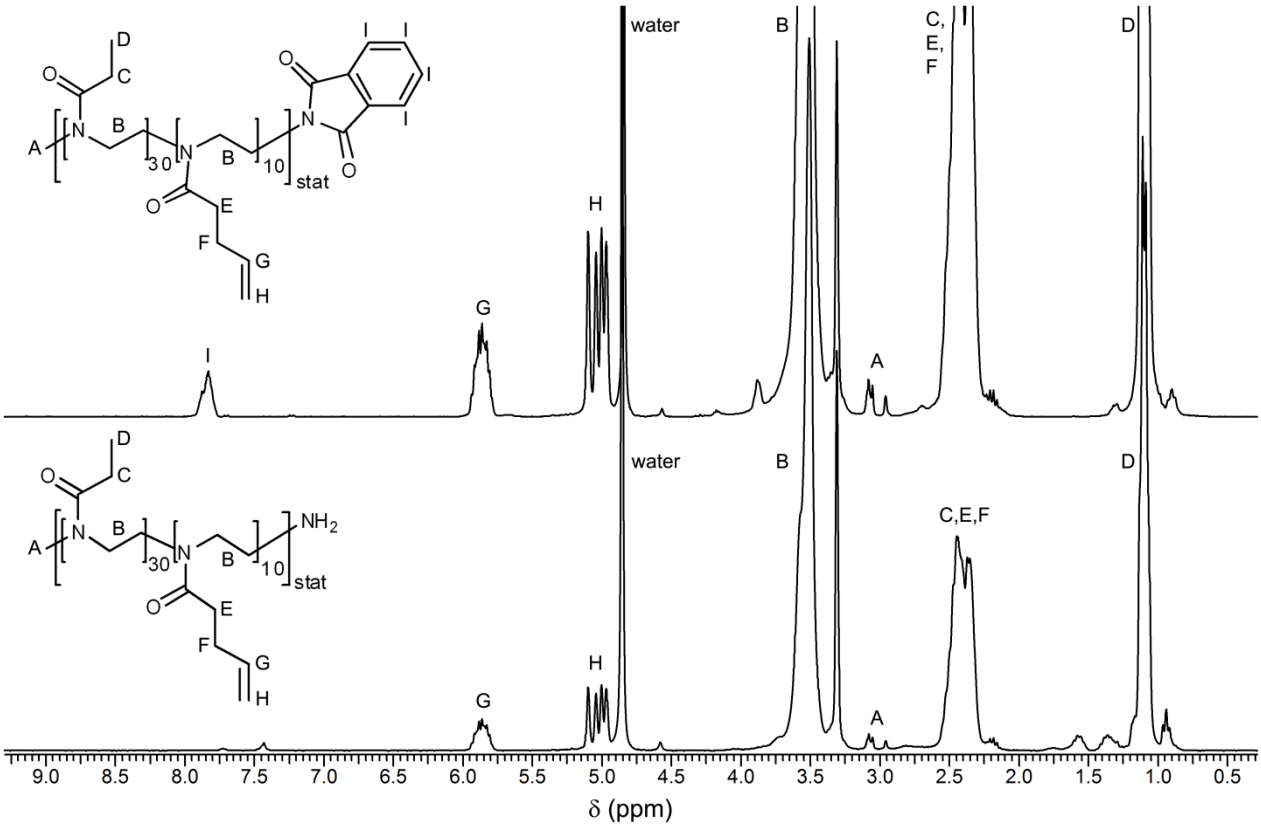

Figure S2. ^{1}H NMR spectra of (top) phthalimide end-capped and (bottom) amine end-functionalized polymer (300 MHz, CD_3OD).

Table S2. SEC data of the different polymers.

Compound	DMAc + 0.21% LiCl		$CHCl_3$ + TEA + iPrOH (94:4:2)	
	M_n (g/mol)[b]	PDI[b]	M_n (g/mol)[b]	PDI[b]
1	6,860	1.16	4,590	1.16
2	6,980	1.19	3,920	1.16
3	7,740	1.20	4,820	1.18
4	7,860	1.24	4,720	1.19
5	8,200	1.35	-[a]	-[a]
6	8,150	1.59	3,640	1.27
PEtOx	6,600	1.21	4,830	1.15

[a] Insoluble in the solvent. [b] Calibration against PS.

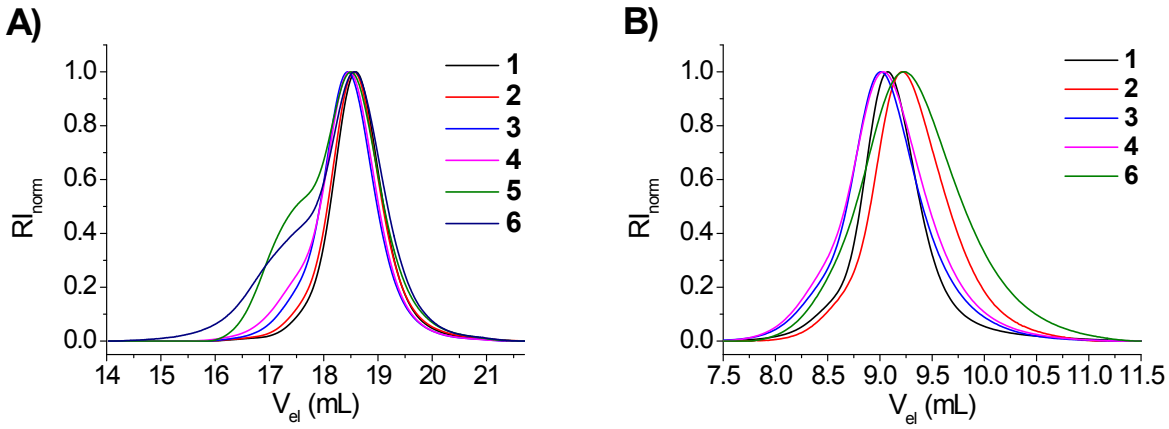

Figure S3. SEC curves of the different polymers. SEC running with A) DMAc + 0.21% LiCl, and B) $CHCl_3$ + TEA + iPrOH (94:4:2).