Supporting information for

Polyacetals of higher cyclic formals. Synthesis, properties and application as polymer electrolytes

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Table of content

Table 1. Diffusion coefficient values of free LiOTf and in the mixture with POMEO2, POMEO3, POMEO4 and PEO

Sample	Li chemical shift [ppm]	Diffusion coefficient [m^2/s]
LiOTf	-1.76	1.26×10^{-9}
PEO2	-1.425	1.11×10^{-9}
PEO3	-1.29	8.84×10^{-10}
PEO4	-1.27	8.13×10^{-10}
MPEG	-1.33	8.13×10^{-10}

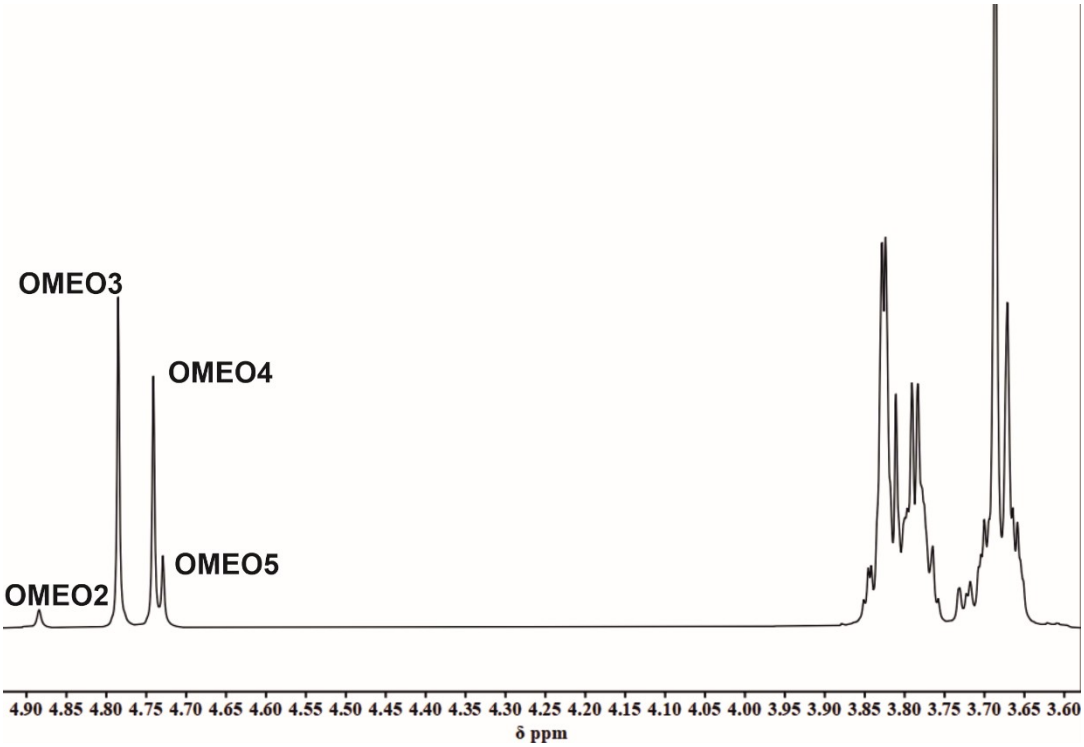

Figure S1. ^1H NMR of the OMEOx macrocyclic acetals

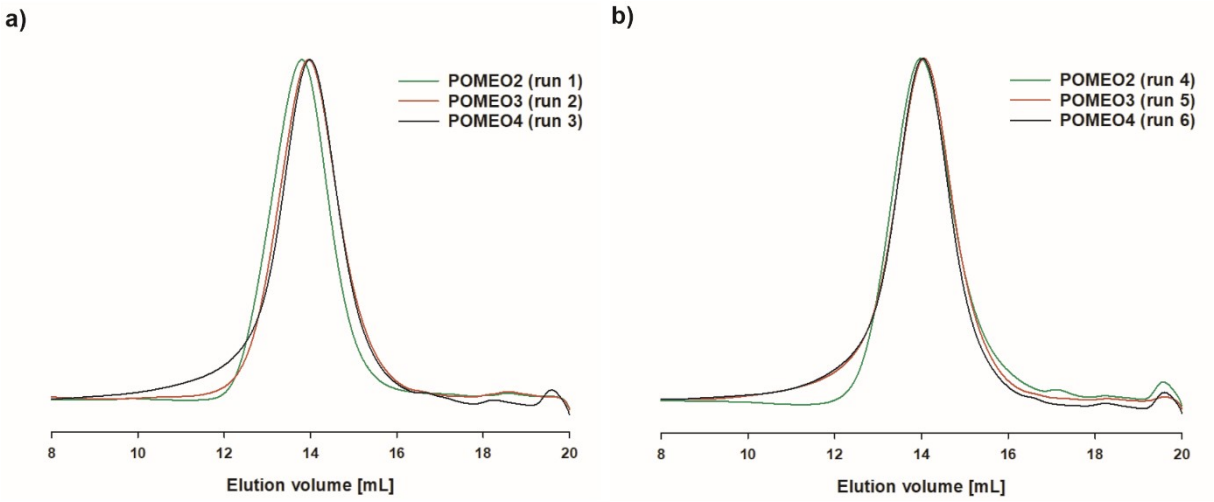

Figure S2. Size Exclusion Chromatography (SEC) curves of purified homopolymers prepared a) with triethyloxonium tetrafluoroborate (runs 1,2 and 3), and b) with triethyloxoniu hexafluoroantimonate (run 4, 5, and 6)