

## Supplementary Information

### Cyclodextrin-modified poly(octamethylene citrate) polymers towards enhanced sorption properties

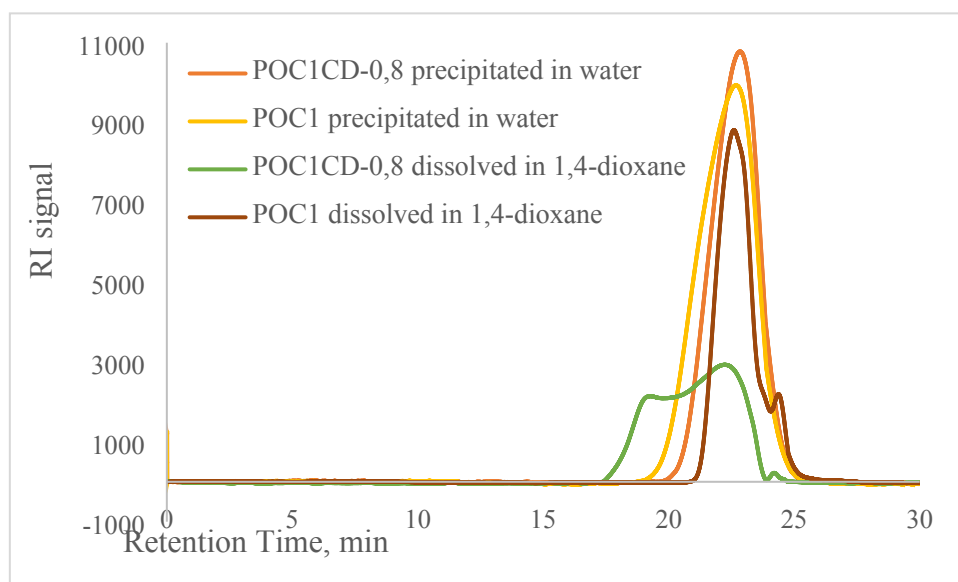
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**Figure S1.** GPC chromatograms of POC and POC1CD prepolymers purified by different methods.

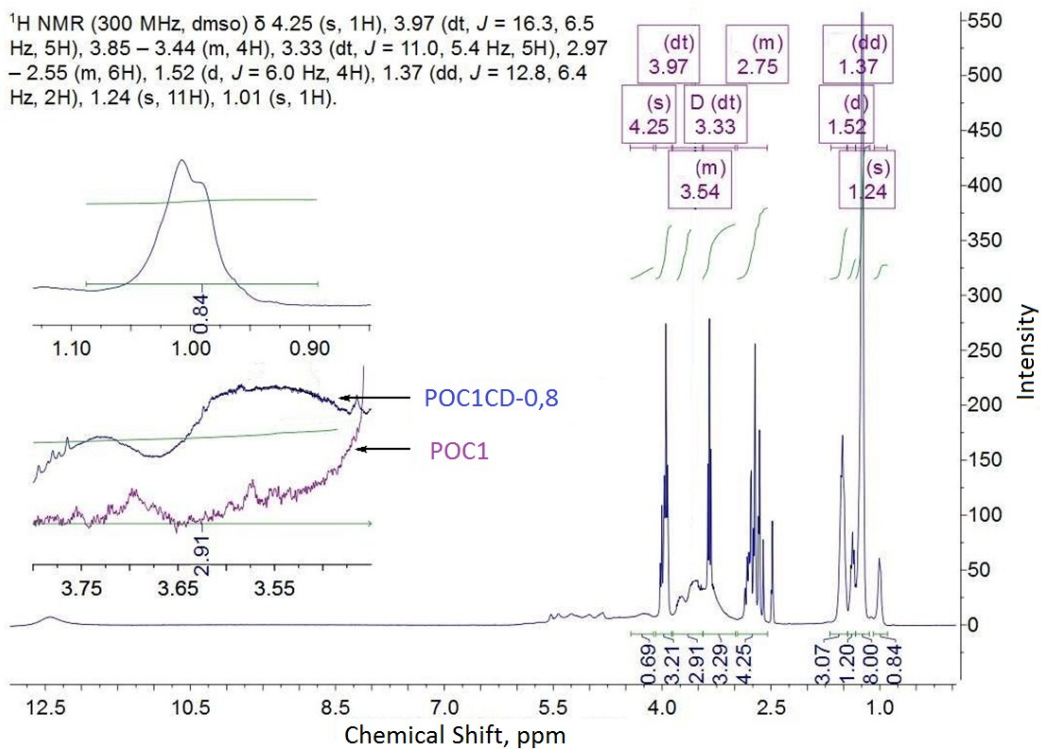


Figure S2.  $^1\text{H}$  NMR spectra of POC1CD-0,8 prepolymer.

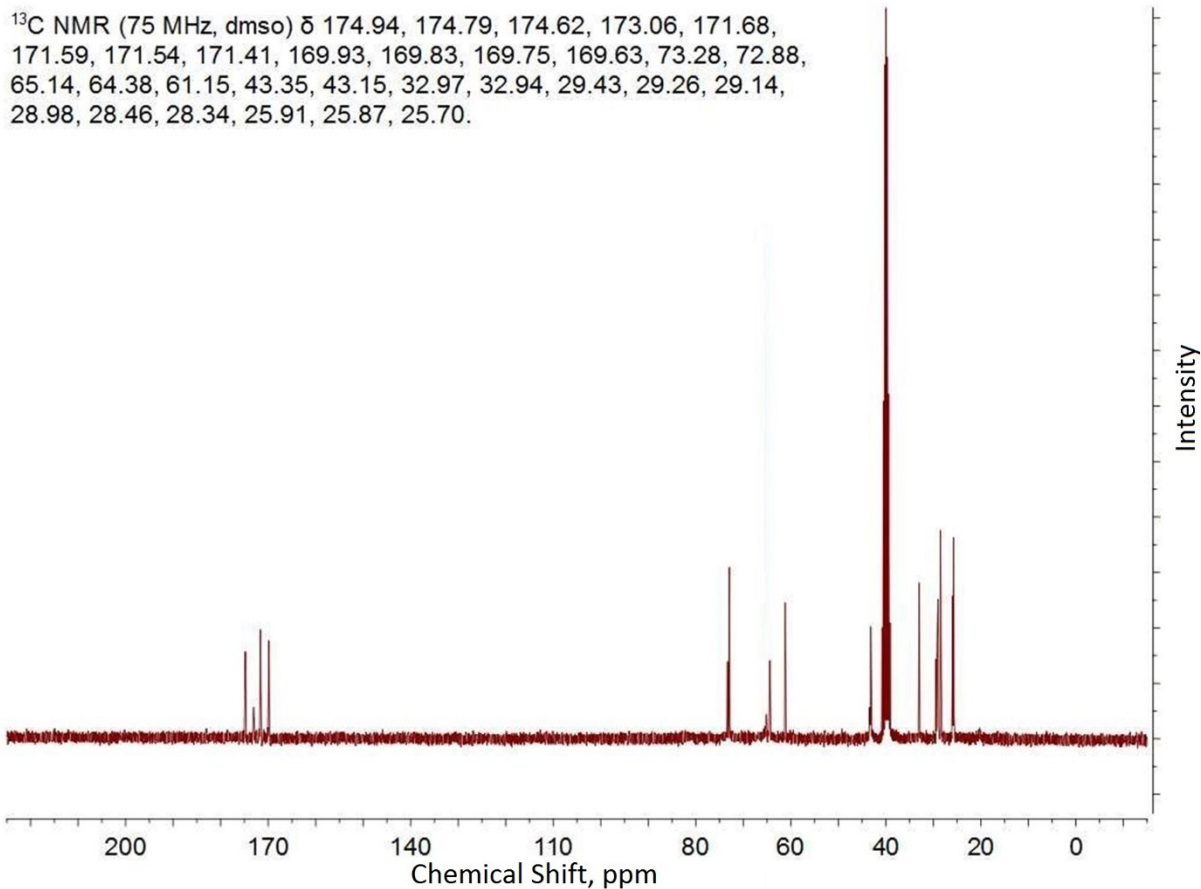
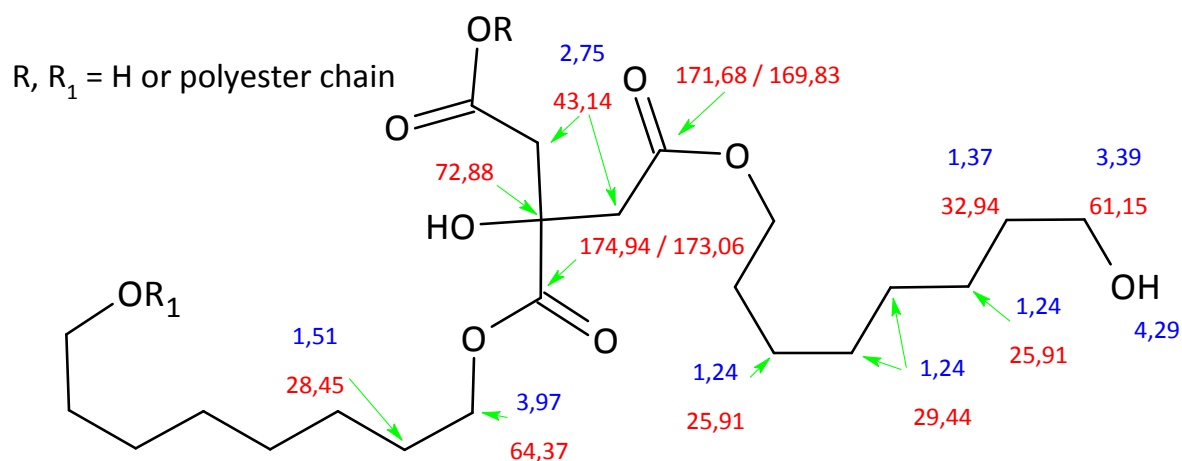


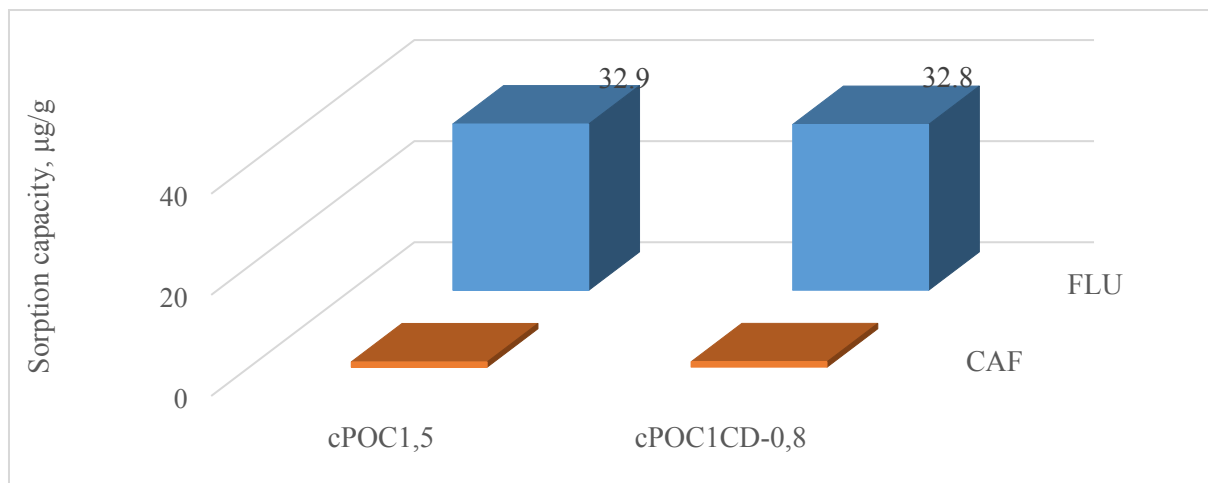
Figure S3.  $^{13}\text{C}$  NMR spectra of POC1CD-0,8.



**Figure S4.** Corrected NMR chemical shifts of POC prepolymer (<sup>1</sup>H NMR signals – blue, <sup>13</sup>C NMR signals – red, ppm).

**Table S1.** Number and weight average molecular weights ( $\bar{M}_n$  and  $\bar{M}_w$ ), polydispersity ( $\bar{M}_w / \bar{M}_n$ ) and acid number of prepolymer samples.

sample	$\bar{M}_n$	$\bar{M}_w$	$\bar{M}_w / \bar{M}_n$	Acid number (mg KOH/g)
POC1	2750	6397	2,32	182.3
POC1,25	4014	7265	1,81	177.4
POC1,5	2950	9343	3,16	170.3
POC1CD-1,2	10525	12188	1,15	171.3
	3331	3710	1,11	
POC1CD-0,8	14447	18673	1,29	171.4
	3825	4235	1,11	
POC1CD-0,6	18047	23673	1,31	174.1
	4156	4825	1,16	
POC1CD-0,3	48423	79291	1,64	175.4
	5699	7495	1,31	
POC1CD-0,15	29476	48520	1,65	180.4
	5218	6301	1,21	



**Figure S5.** FLU and CAF loading properties of cPOCCD materials and cPOC controls.