SUPPORTING INFORMATION


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**Fitted NMR titration curves**

The shifts of the N-Methylpeaks of NMP⁺ from a single titration experiment are presented.

**Calixarene 3**

Initial concentration $c(3) = 26$ mM,
$c(\text{NMPI}) = 4.5$ mM
Calixarene 4

Initial concentration $c(4) = 21\text{mM}$,
$c(\text{NMP}) = 9.0 \text{mM}$
Calixarene 10a

Calixarene 10a initial concentration $c(10a) = 31mM$,
$c$(NMPI) = 3.6 mM
Calixarene 10c

Initial concentration $c(10c) = 31$ mM,
$c($NMPI$) = 3.6$ mM
Job-plot of 2mM solutions of calixarene 4 and NMPI
FAB Mass Spectra of Complexation Experiments

FAB mass spectrum of a ground mixture of calixarene 3 and NMP\(^+\) iodide. Matrix: NBA.
FAB mass spectrum of a ground mixture of calixarene 4 and NMP⁺ iodide. Matrix: NBA.
FAB mass spectrum of a ground mixture of calixarene 3 and TMA$^+$ chloride. Matrix: NBA.
FAB mass spectrum of a ground mixture of calixarene 4 and TMA$^+$ chloride. Matrix: NBA.
FAB mass spectrum of a ground mixture of calixarene 10b and TMA$^+$ chloride. Matrix: NBA.
FAB mass spectrum of a ground mixture of calixarene $10a$ and TMA$^+$ chloride. Matrix: NBA.
FAB mass spectrum of a ground mixture of calixarene 4 and choline chloride. Matrix: NBA.
AM1-optimized structures of complexes 10a·NMP⁺ and 10b·NMP⁺:

Light blue: hydrogen, deep blue: nitrogen, grey: carbon, red: oxygen. The NMP⁺-guest is shown with a dotted surface.