Supporting Information for

Synthesis and structure of mono-bridged resorcinarene host:
Ditopic receptor for ammonium guests

Kirs Salorinne, Tiia-Riikka Tero, Kaisa Riikonen and Maija Nissinen*
Nanoscience Center, Department of Chemistry, University of Jyväskylä, P.O. Box 35, 40014 JYU, Finland
maija.nissinen@jyu.fi

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1. Crystallographic details and data

Table 1. Conformational properties of 1.

<table>
<thead>
<tr>
<th></th>
<th>I</th>
<th>II</th>
<th>III</th>
<th>average</th>
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<tbody>
<tr>
<td>angle° (°)</td>
<td>26.2 / 158.1</td>
<td>36.3 / 145.2</td>
<td>33.6 / 153.1</td>
<td>32.0 / 152.1</td>
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<tr>
<td>distance Å</td>
<td>5.58 / 7.96</td>
<td>5.78 / 7.91</td>
<td>5.87 / 7.85</td>
<td>5.74 / 7.91</td>
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<td>Crown pocket diameter Å</td>
<td>6.13</td>
<td>6.36</td>
<td>6.28</td>
<td>6.26</td>
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<tr>
<td>Contact angle °</td>
<td>125.7</td>
<td>119.5</td>
<td>135.5</td>
<td>-</td>
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<tr>
<td>Pair distance Å</td>
<td>4.03</td>
<td>4.69</td>
<td>7.34</td>
<td>-</td>
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* Between the opposite aromatic ring centroids

Scheme 1. Crystallographic numbering (left- and right-handed) of 1.
2. NMR titration data and Job plot

Figure 1. FitPlot of 1 and AChCl in CDCl₃.

Figure 2. FitPlot of 1 and TMACl in MeOD-CDCl₃ (1:1).
Figure 3. Job plot of 1 and AChCl in CDCl₃.
Figure 4. $^1$H NMR spectrum of 1 in CDCl$_3$. 
Figure 5. $^{13}$C NMR spectrum of 1 in CDCl$_3$. 