Supplementary Information

**Figure S1.** X-ray powder diffraction pattern for complex 1 plotted against predicted pattern.

**Figure S2.** X-ray powder diffraction pattern for complex 2 plotted against predicted pattern.
**Figure S3.** Thermogravimetric analysis trace for complex 1.

**Figure S4.** Thermogravimetric analysis trace for complex 2.
Table S1. Hydrogen bonding parameters for complex 1.

<table>
<thead>
<tr>
<th>D</th>
<th>H</th>
<th>A</th>
<th>d(D-H)/Å</th>
<th>d(H-A)/Å</th>
<th>d(D-A)/Å</th>
<th>D-H-A/°</th>
</tr>
</thead>
<tbody>
<tr>
<td>O16</td>
<td>H16</td>
<td>O14</td>
<td>0.844(10)</td>
<td>1.822(11)</td>
<td>2.662(2)</td>
<td>173(3)</td>
</tr>
</tbody>
</table>

\(^{1} -1 + X, + Y, + Z.\)

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