ELECTRONIC SUPPLEMENTARY INFORMATION

Prospects for $^{207}$Pb Solid-State NMR Studies of Lead Tetrel Bonds

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<table>
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<tr>
<th>compound</th>
<th>minimum electrostatic potential</th>
<th>maximum electrostatic potential</th>
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<tbody>
<tr>
<td>1</td>
<td>-0.0814</td>
<td>0.130</td>
</tr>
<tr>
<td>2</td>
<td>-0.0746</td>
<td>0.129</td>
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<tr>
<td>3</td>
<td>-0.0732</td>
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<td>4</td>
<td>-0.0555</td>
<td>0.120</td>
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<tr>
<td>5</td>
<td>-0.0821</td>
<td>0.122</td>
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**Table S1.** Minimum and maximum computed electrostatic potential values (a.u.)
Figure S1. Powder X-Ray diffractogram for 1. The calculated pattern (red) obtained from Mercury is offset above the experimental data (black). The origins of additional reflections are addressed in the main text.

Figure S2. Powder X-Ray diffractogram for 3. The calculated pattern (red) obtained from Mercury is offset above the experimental data (black). The presence of additional peaks of low intensity is attributed to residual lead thiocyanate (see main text).
Figure S3. Powder X-Ray diffractogram for 2. The calculated pattern (red) obtained from Mercury is offset above the experimental data (black).

Figure S4. Powder X-Ray diffractogram for 4. The calculated pattern (red) obtained from Mercury is offset above the experimental data (black).
Figure S5. Powder X-Ray diffractogram for 5. The calculated pattern (red) obtained from Mercury is offset above the experimental data (black).