Synthesis and transformations of a few 9-(pent-4-yn-1-yl)anthracene-type systems

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Content: $^1$H and $^{13}$C NMR spectra of novel compounds

Unless otherwise mentioned, all $^1$H and $^{13}$C NMR spectra were recorded on a 400 MHz Bruker Avance III FT-NMR spectrometer with tetramethylsilane (TMS) as internal standard. Chemical shifts (δ) are reported in parts per million (ppm) downfield of TMS.
1. Compound 5b
2. Compound 5c
3. Compound 5d
4. Compound 6b

![Chemical Structure of Compound 6b]

[Chemical shift values are indicated in the spectrum diagram.]

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5. Compound 6c
6. Compound 6d
7. Compound 7
8. Compound 8a
9. Compound 8b

(\textsuperscript{1}H NMR on a 500 MHz instrument)
10. Compound 8c

$({}^1\text{H NMR on a 500 M Hz instrument})$
11. Compound 8d
Single Crystal XRD obtained for a few tethered barrelenes

<table>
<thead>
<tr>
<th></th>
<th>Compound</th>
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<tr>
<td>1</td>
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<tr>
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<tr>
<td>3</td>
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<tr>
<td>4</td>
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