

# Supporting Information

## for

# A bisazobenzene crosslinker that isomerizes with visible light

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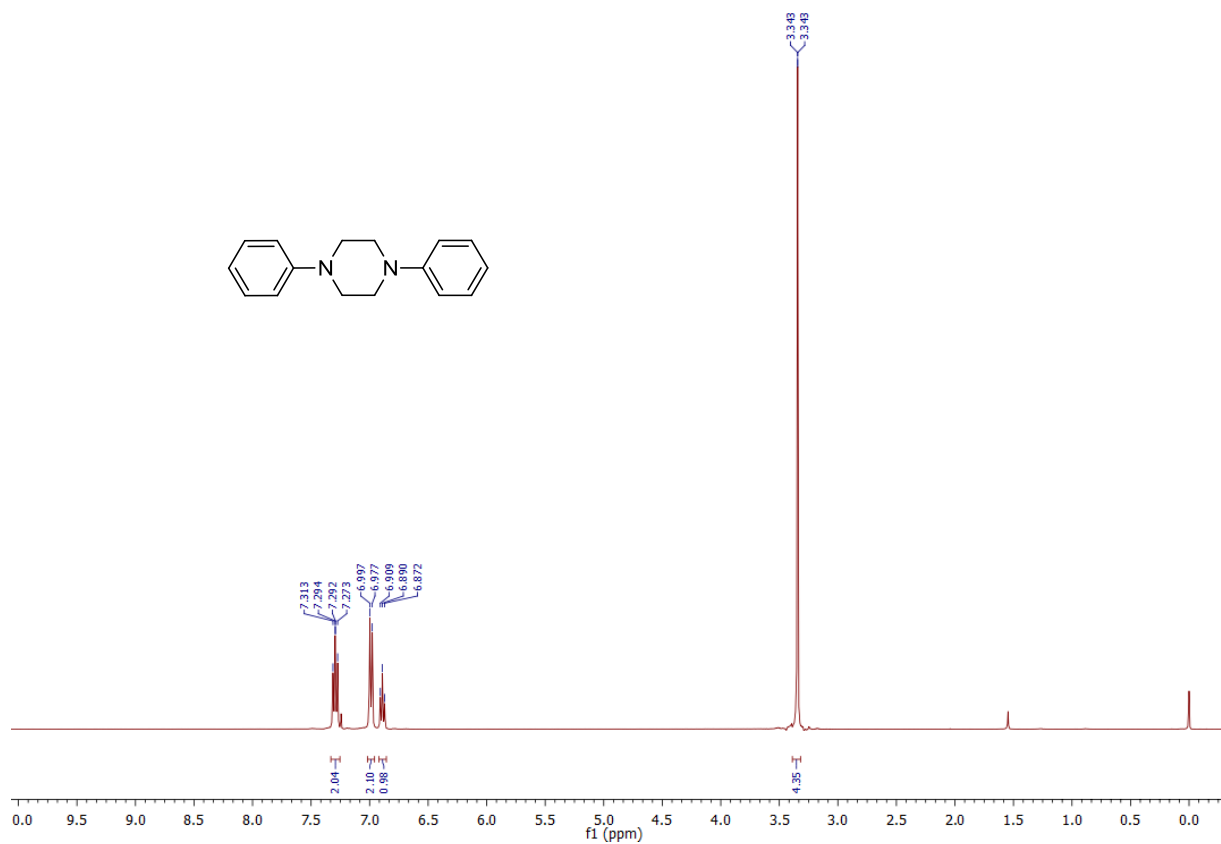
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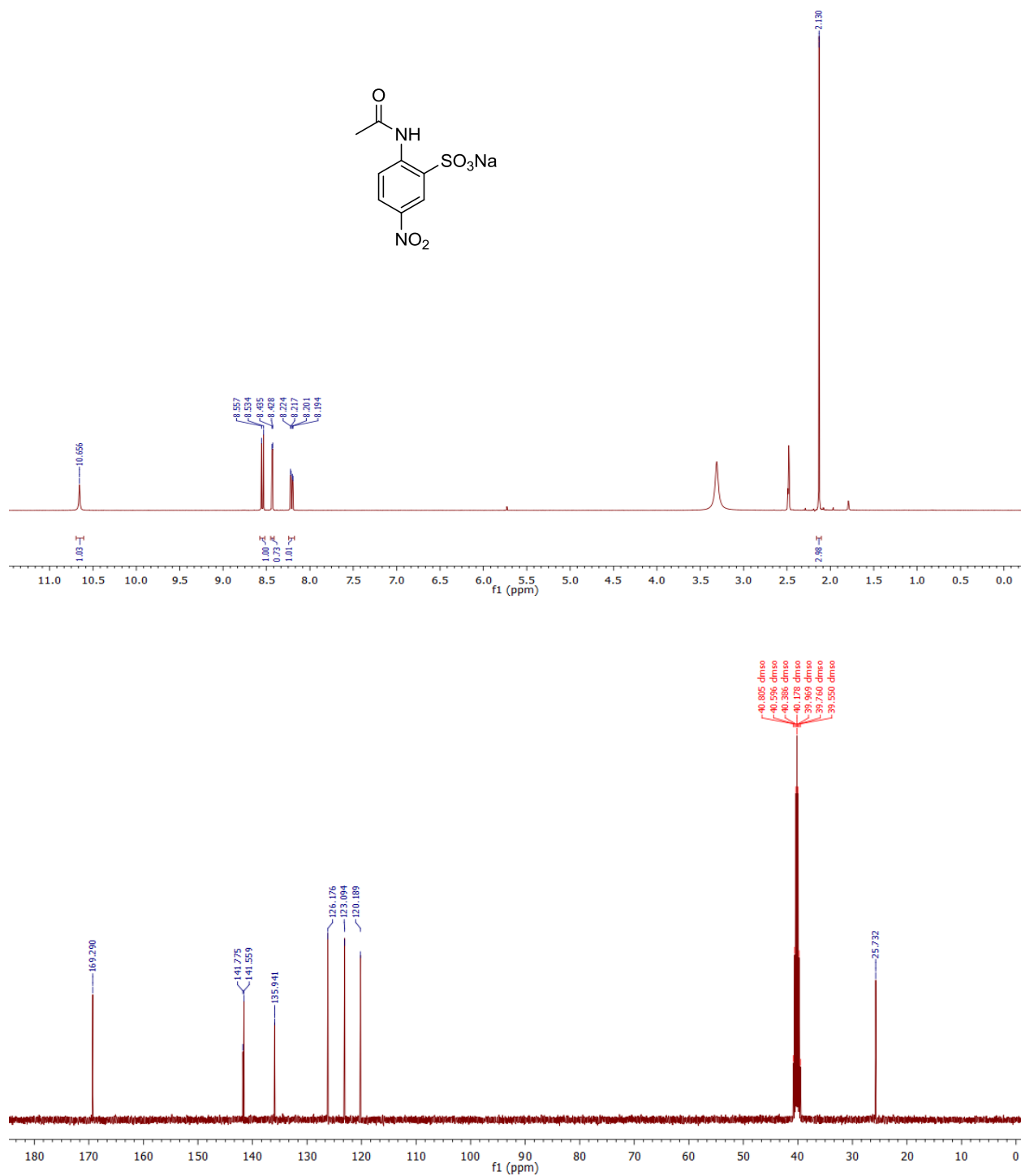
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## NMR spectra for compounds 2, 4, 5 and 7

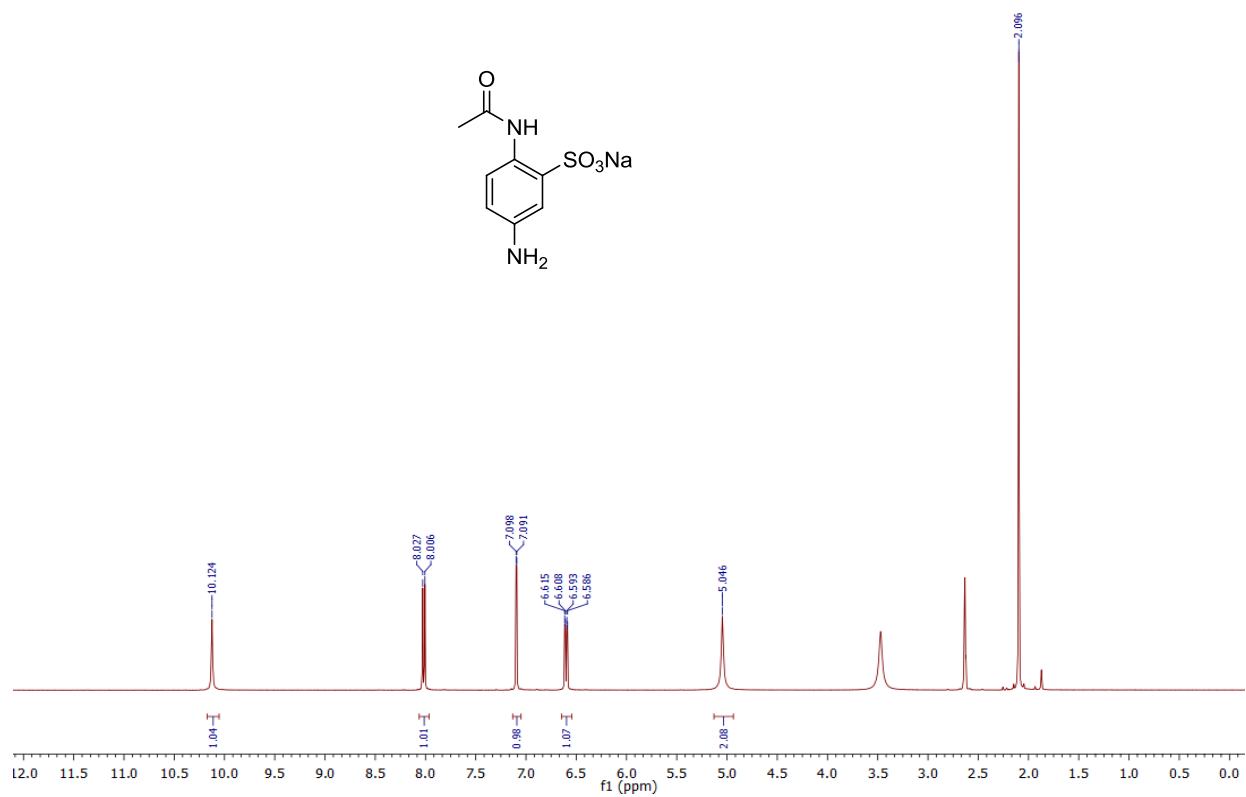
<sup>1</sup> H NMR spectrum of 1,4-diphenylpiperazine ( <b>7</b> ) .....	S2
<sup>1</sup> H and <sup>13</sup> C NMR spectra of sodium 2-acetamido-5-nitrobenzenesulfonate ( <b>5</b> ) .....	S3
<sup>1</sup> H NMR spectrum of sodium 2-acetamido-5-aminobenzenesulfonate ( <b>4</b> ) .....	S4
<sup>1</sup> H and <sup>13</sup> C NMR spectra of 5,5'-(piperazine-1,4-diylbis(4,1-phenylene))bis(diazene-2,1-diyl)bis(2-acetamidobenzenesulfonic acid) ( <b>2</b> ) .....	S5



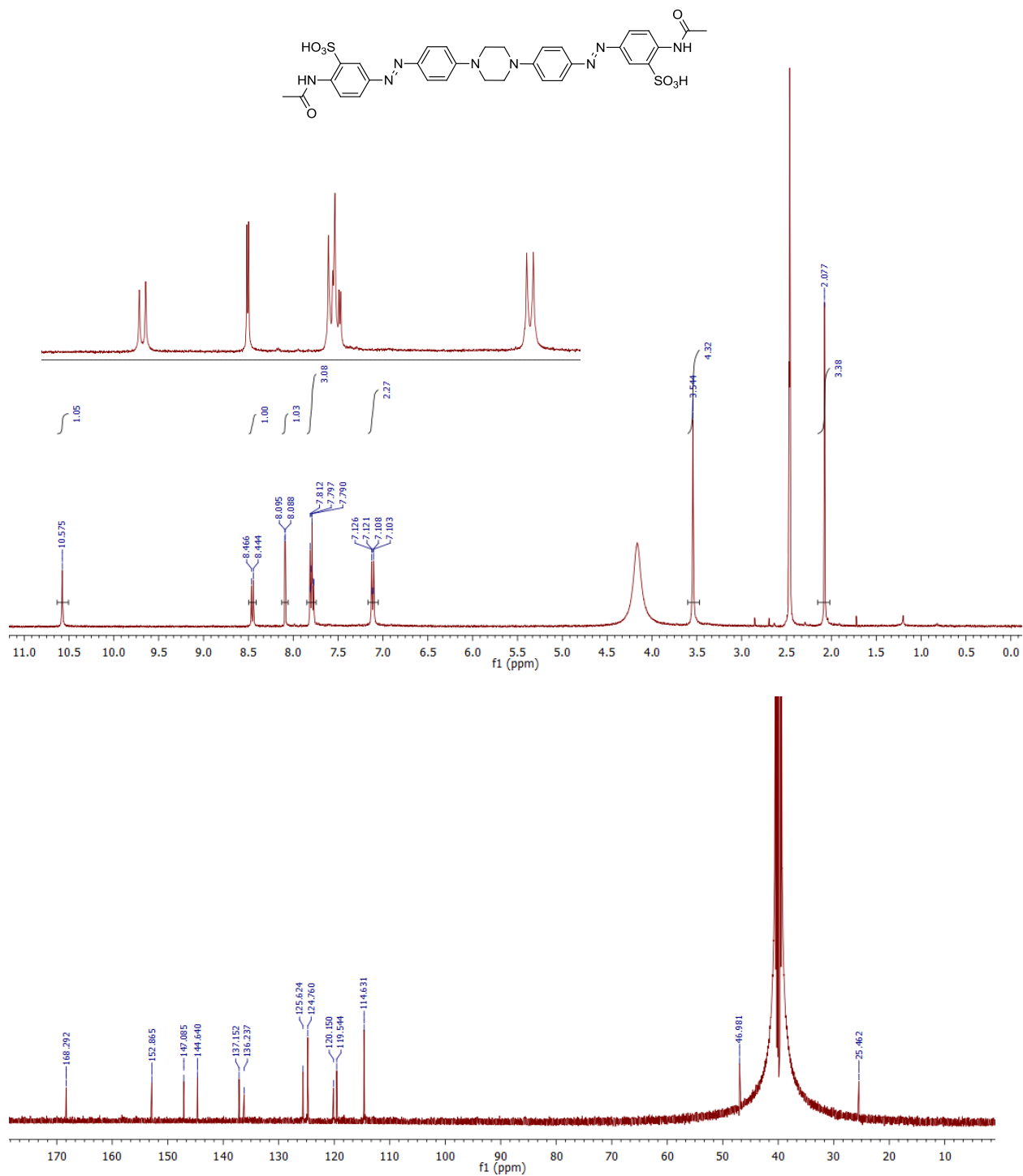
**Figure S1:** <sup>1</sup>H NMR (400 MHz) of 1,4-diphenylpiperazine (**7**) in CDCl<sub>3</sub>.



**Figure S2:** <sup>1</sup>H NMR (400 MHz) and <sup>13</sup>C NMR (100 MHz) spectra of sodium 2-acetamido-5-nitrobenzenesulfonate (**5**) in DMSO-*d*<sub>6</sub>.



**Figure S3:** <sup>1</sup>H NMR (400 MHz) of sodium 2-acetamido-5-aminobenzenesulfonate (**4**) in DMSO-*d*<sub>6</sub>.



**Figure S4:** <sup>1</sup>H NMR (400 MHz) and <sup>13</sup>C NMR (125 MHz) spectra of 5,5'-(piperazine-1,4-diylbis(4,1-phenylene))bis(diazene-2,1-diyl)bis(2-acetamidobenzenesulfonic acid) (**2**) in DMSO-*d*<sub>6</sub>.