

**Dual-State Emission of 2-(Butylamino)cinchomeronic  
Dinitrile Derivatives**

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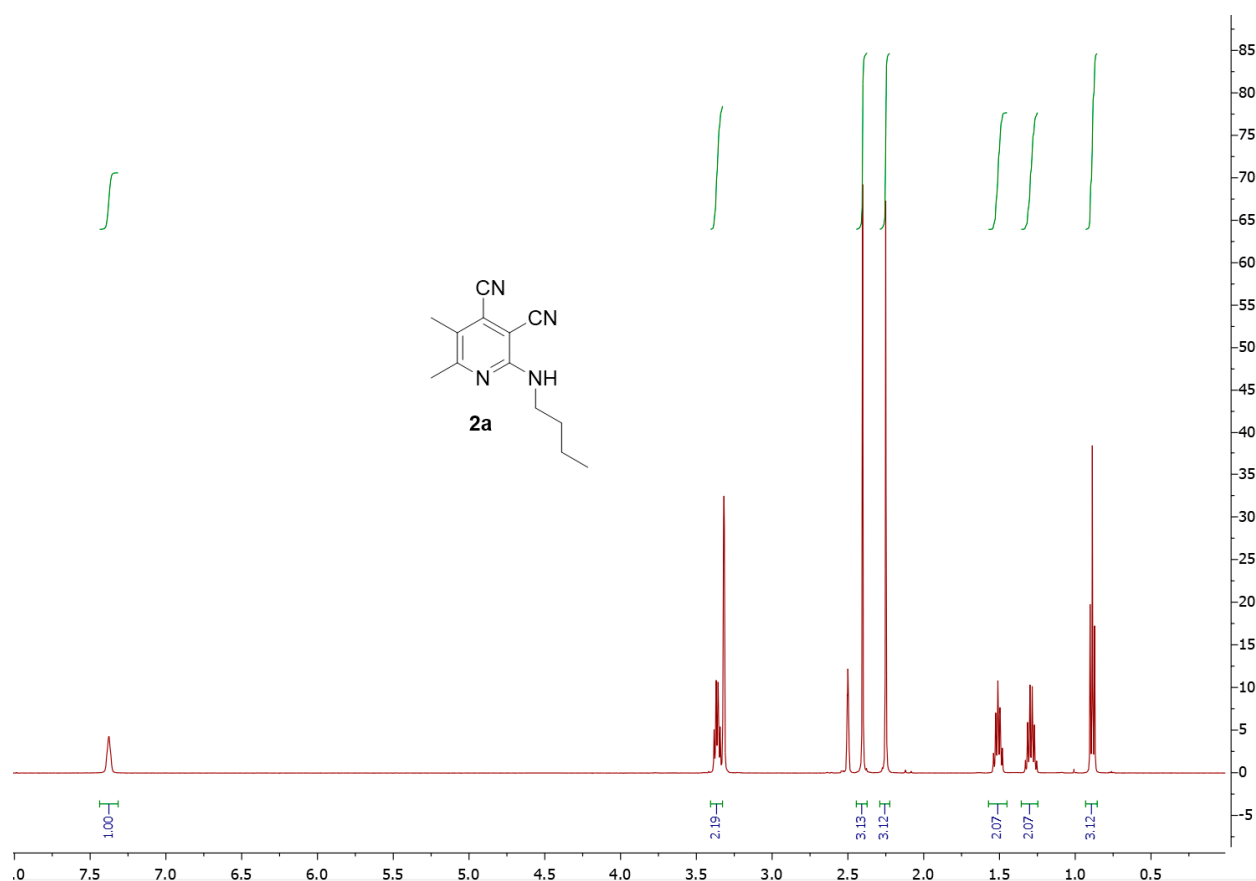


Figure S1. <sup>1</sup>H NMR-spectrum of **2a** (500.13 MHz, DMSO-d<sub>6</sub>, 298K).

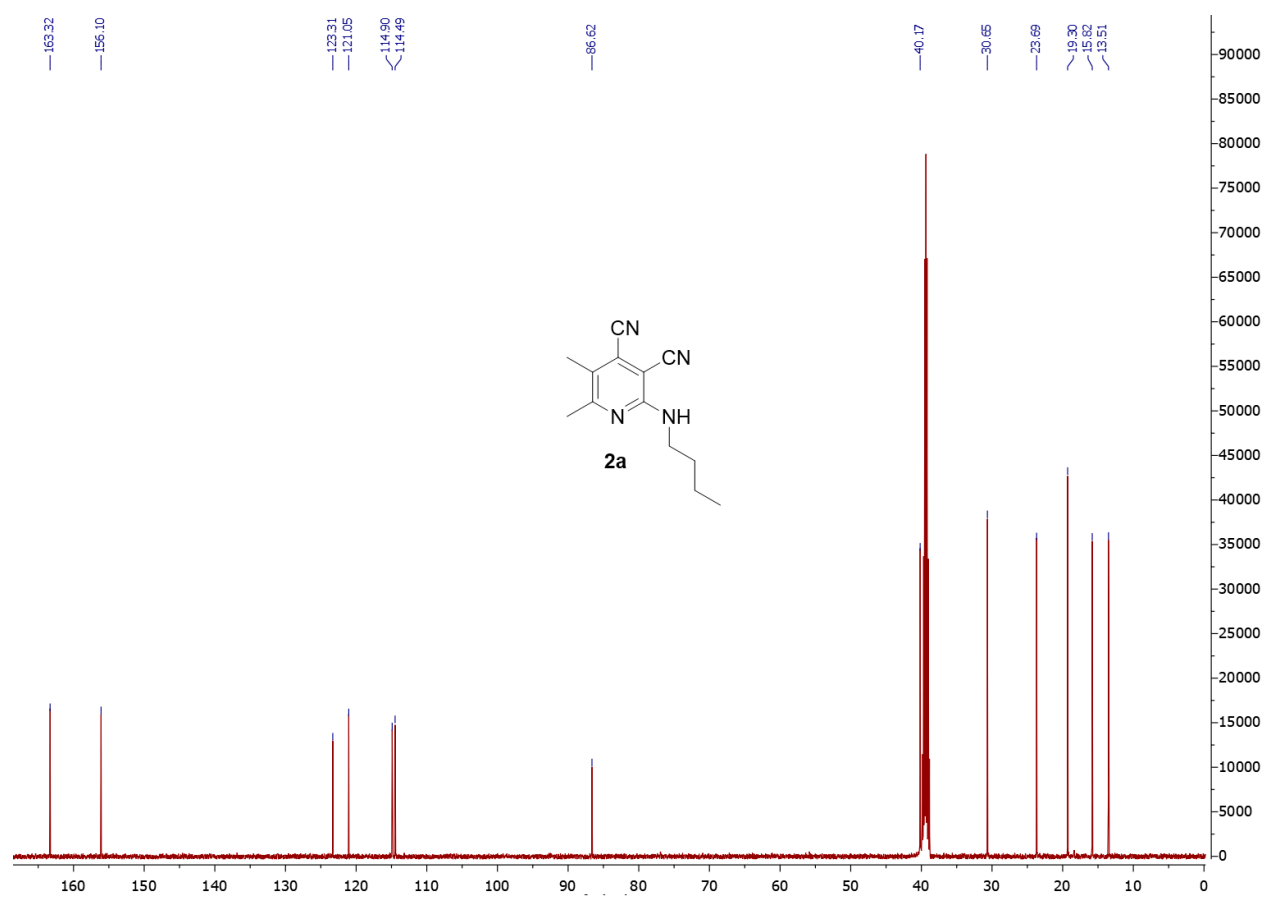


Figure S2. <sup>13</sup>C NMR-spectrum of **2a** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

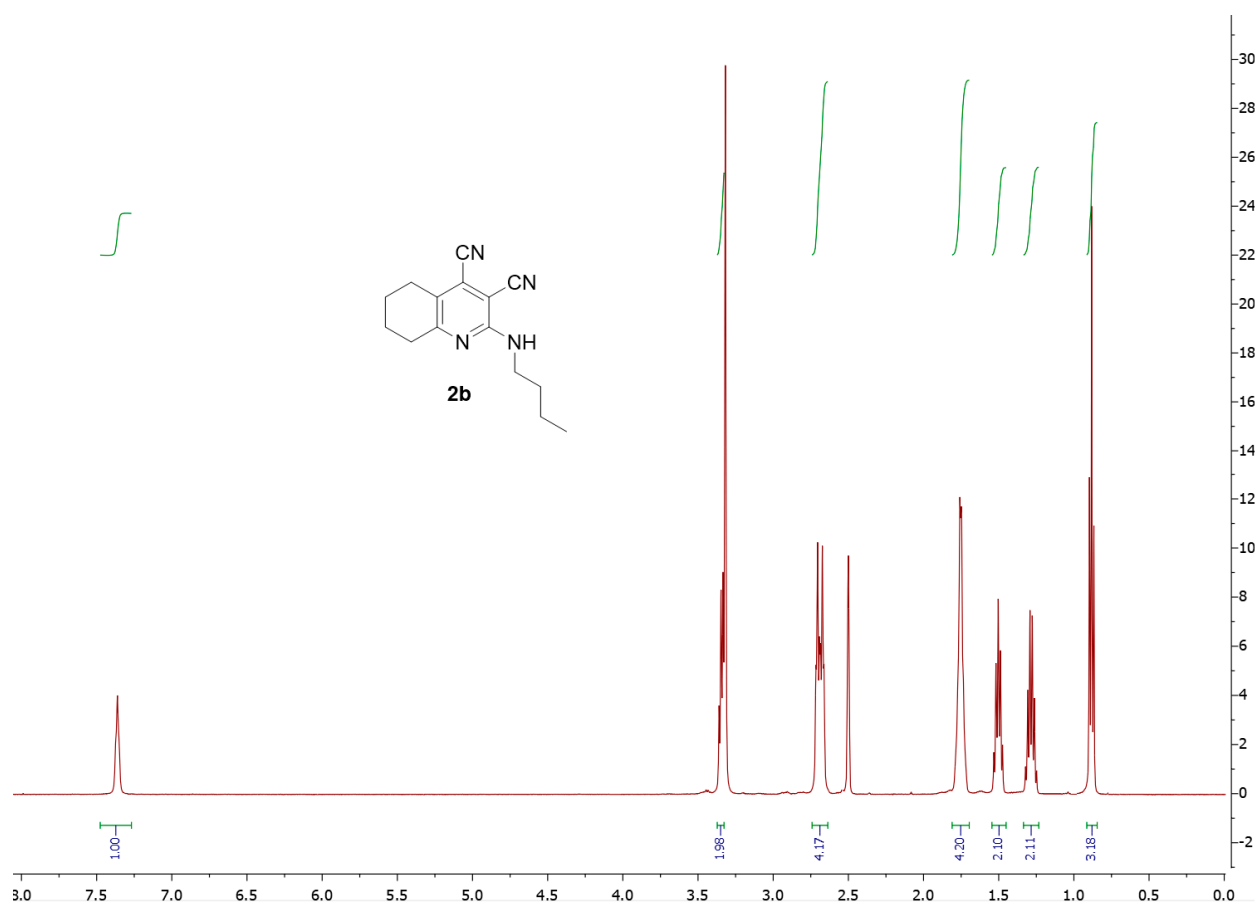


Figure S3. <sup>1</sup>H NMR-spectrum of **2b** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

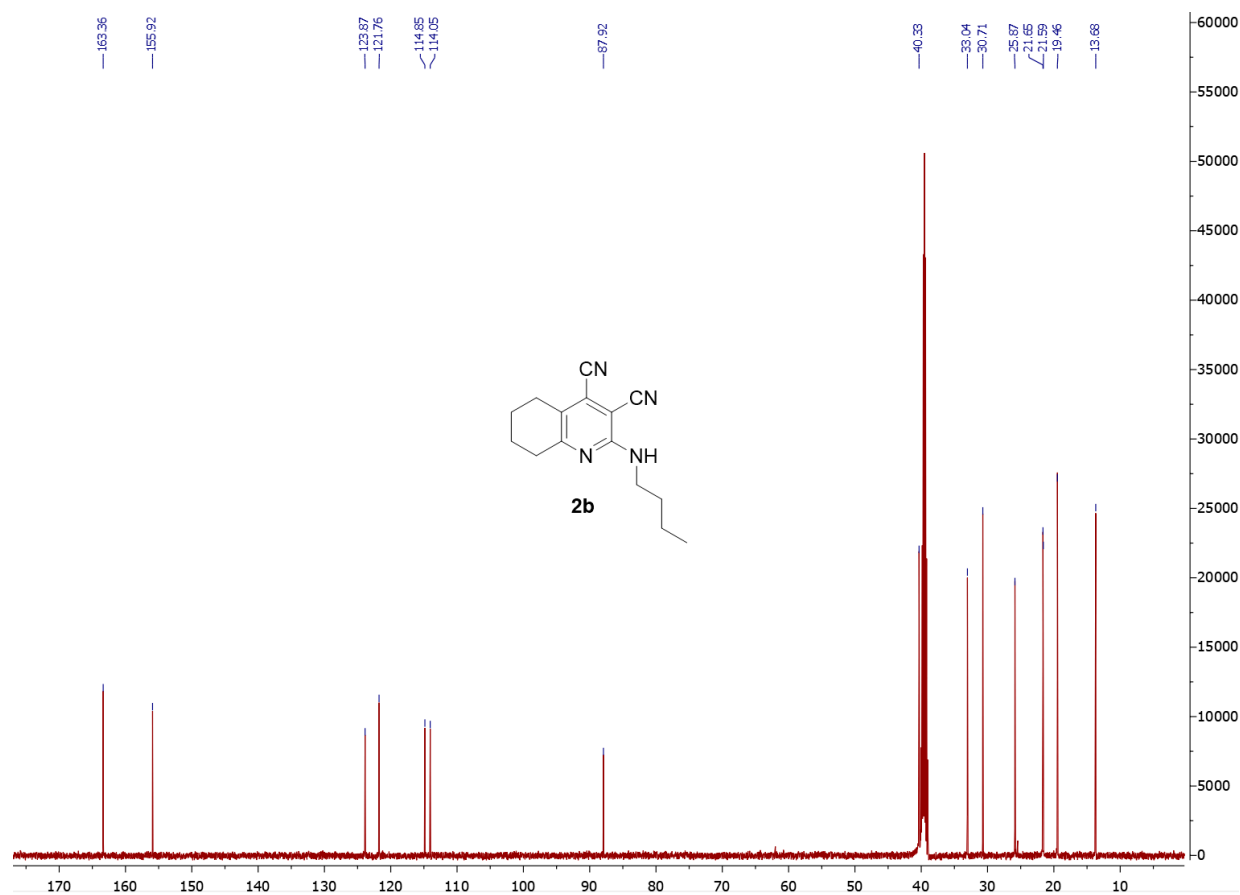


Figure S4. <sup>13</sup>C NMR-spectrum of **2b** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

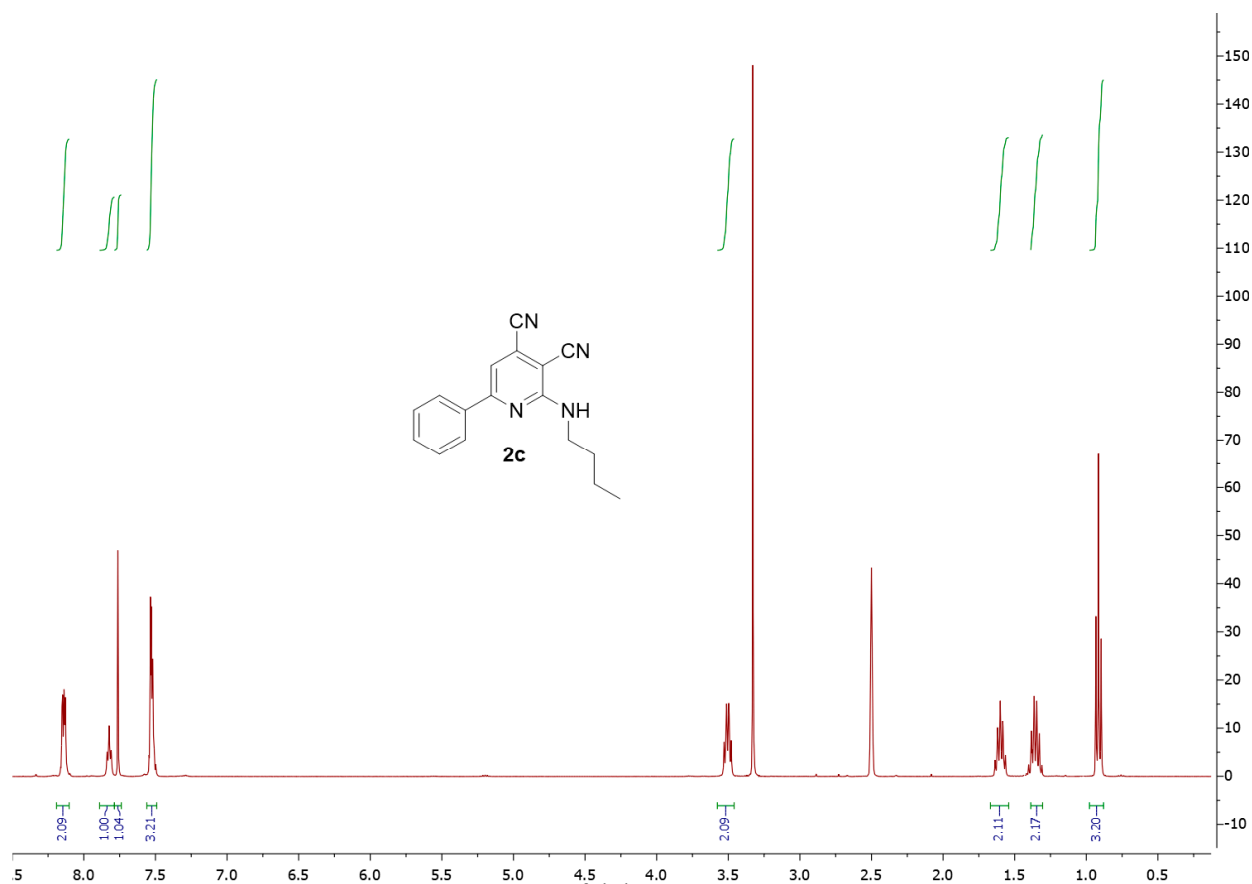


Figure S5. <sup>1</sup>H NMR-spectrum of **2c** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

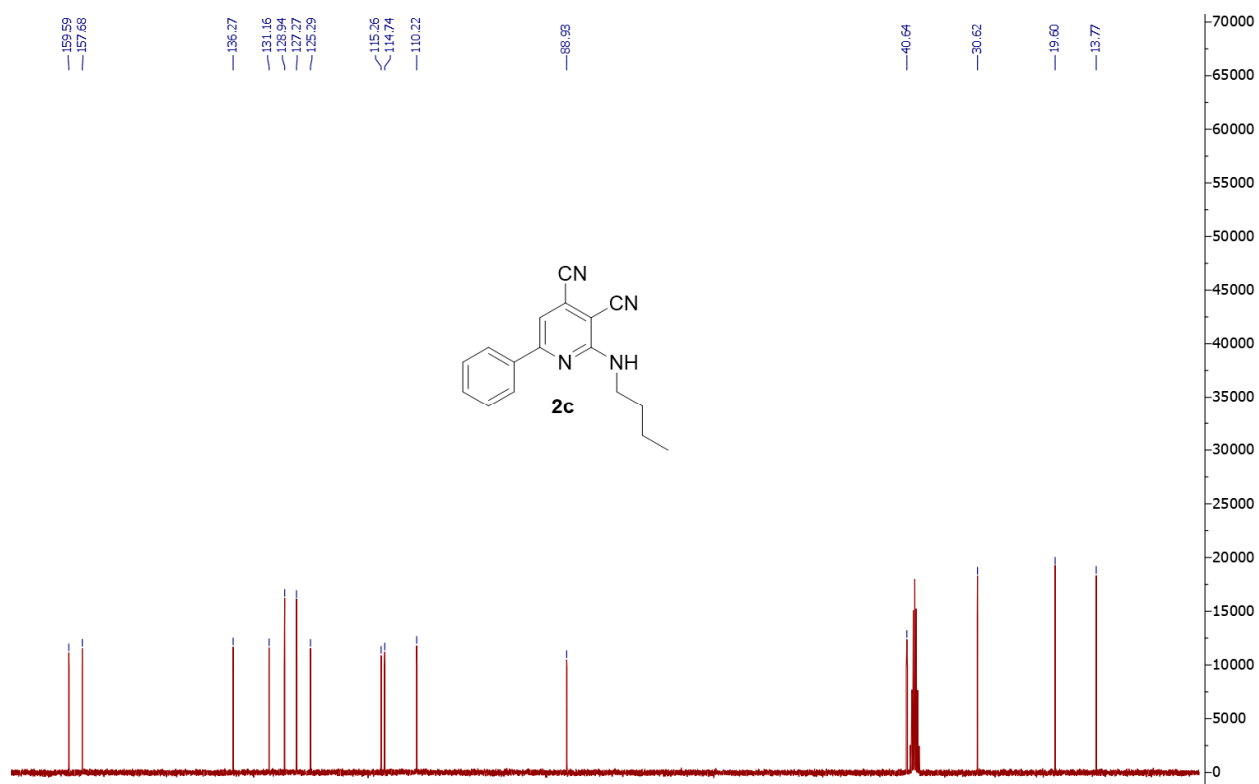


Figure S6. <sup>13</sup>C NMR-spectrum of **2c** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

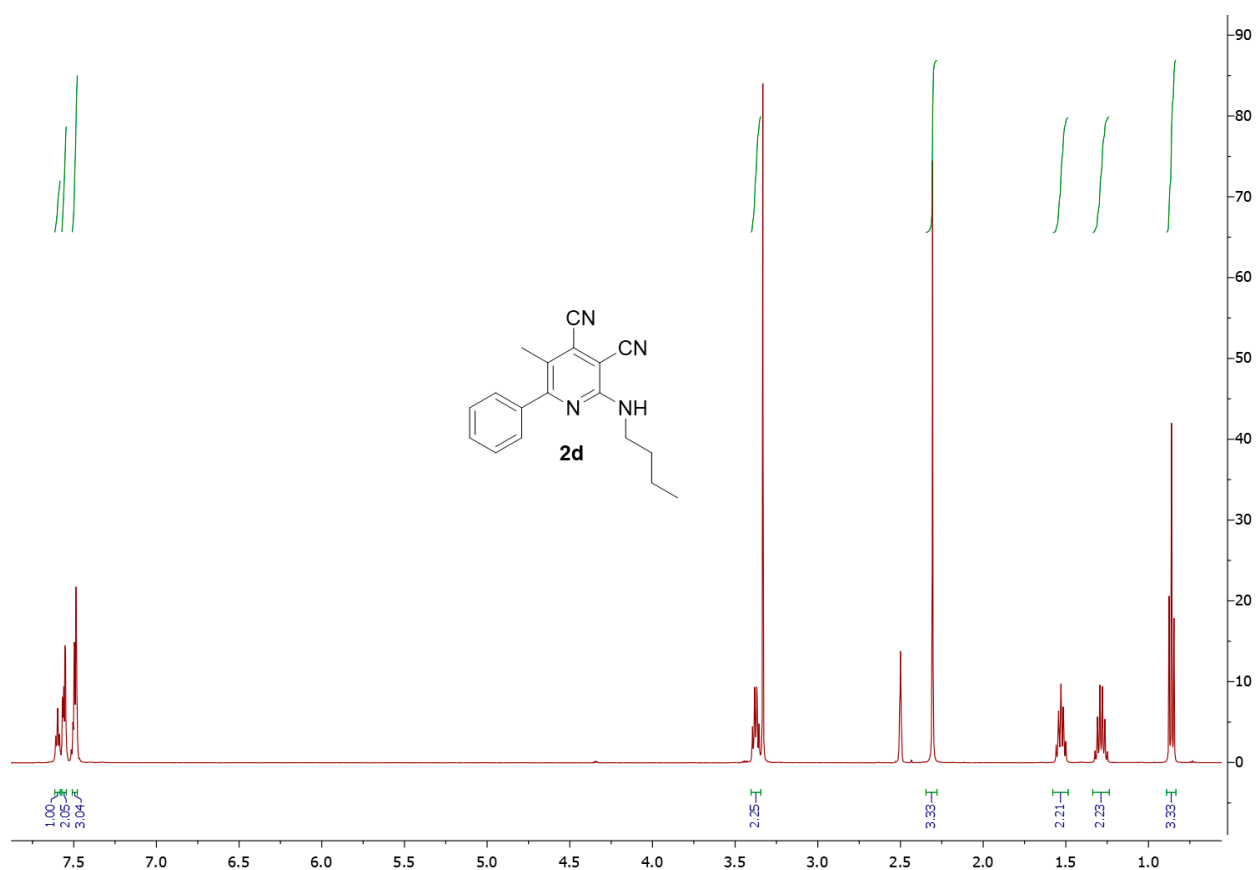


Figure S7. <sup>1</sup>H NMR-spectrum of **2d** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

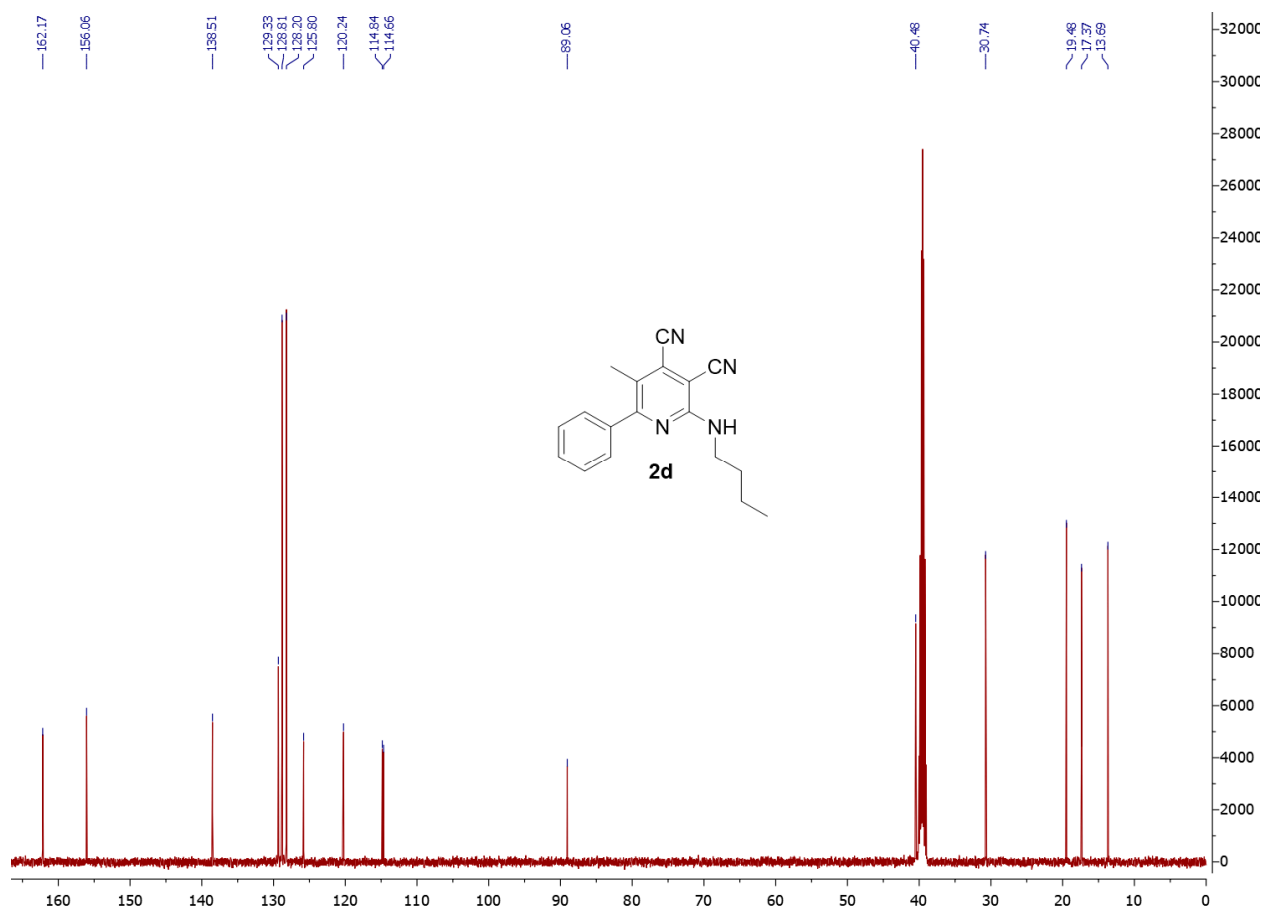


Figure S8. <sup>13</sup>C NMR-spectrum of **2d** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

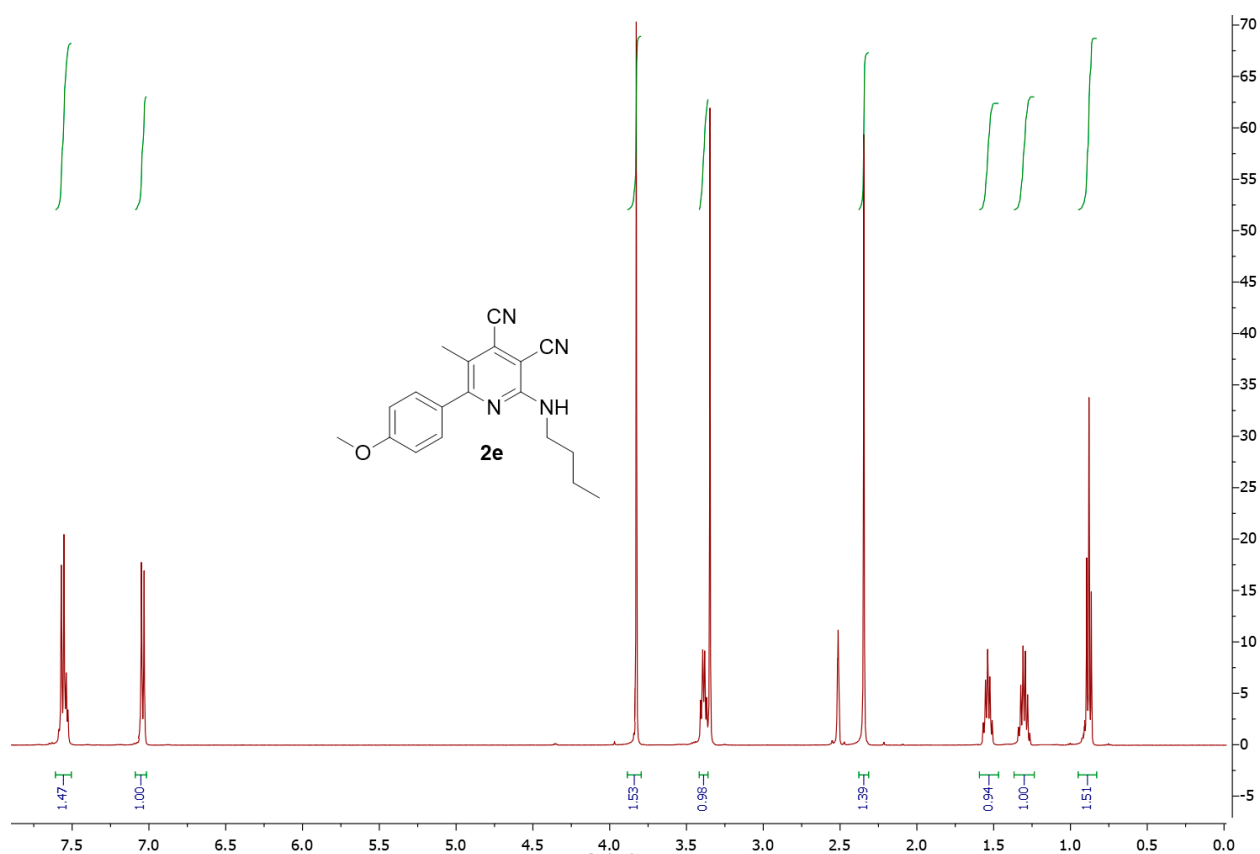


Figure S9.  $^1\text{H}$  NMR-spectrum of **2e** (500.13 MHz, DMSO- $d_6$ , 298K)

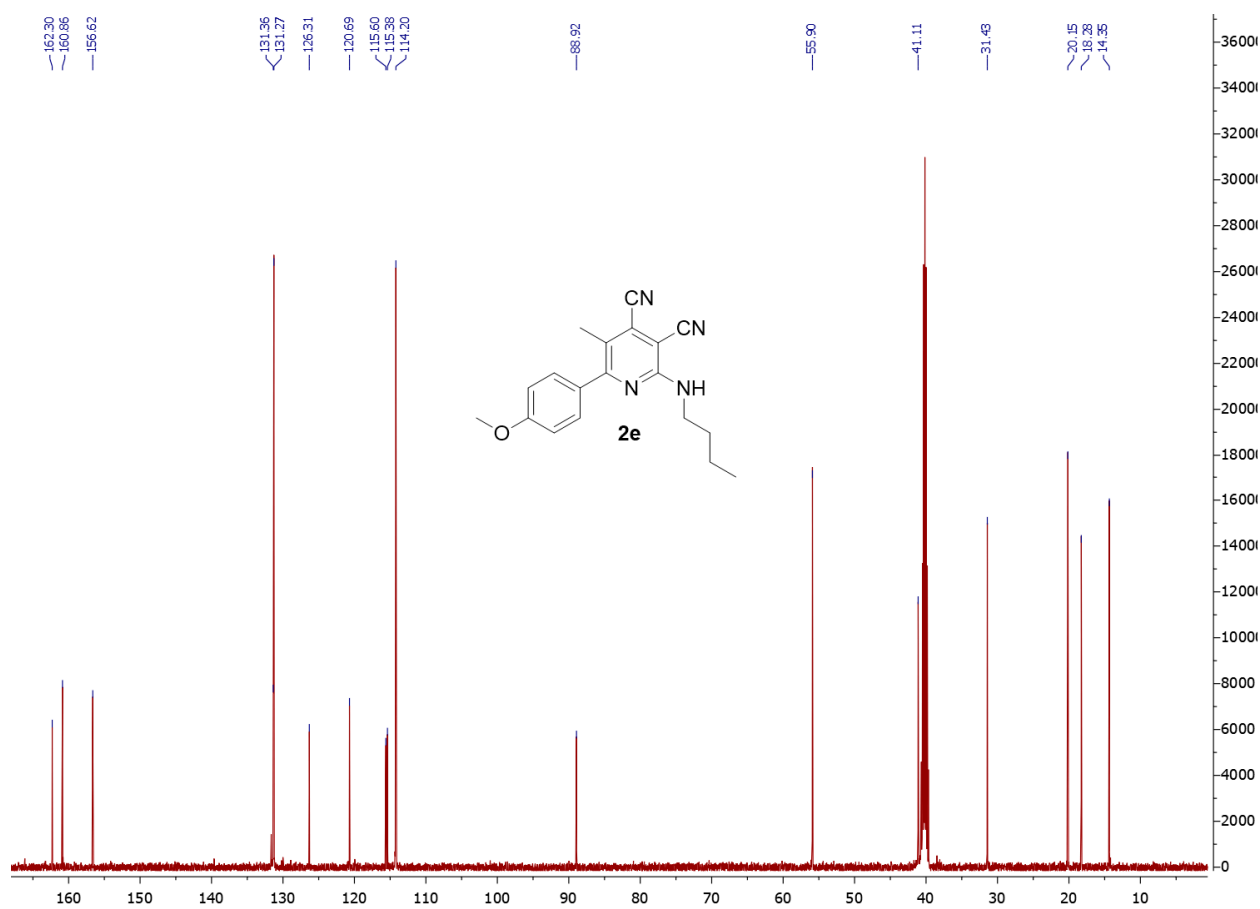


Figure S10.  $^{13}\text{C}$  NMR-spectrum of **2e** (125.76 MHz, DMSO- $d_6$ , 299K)

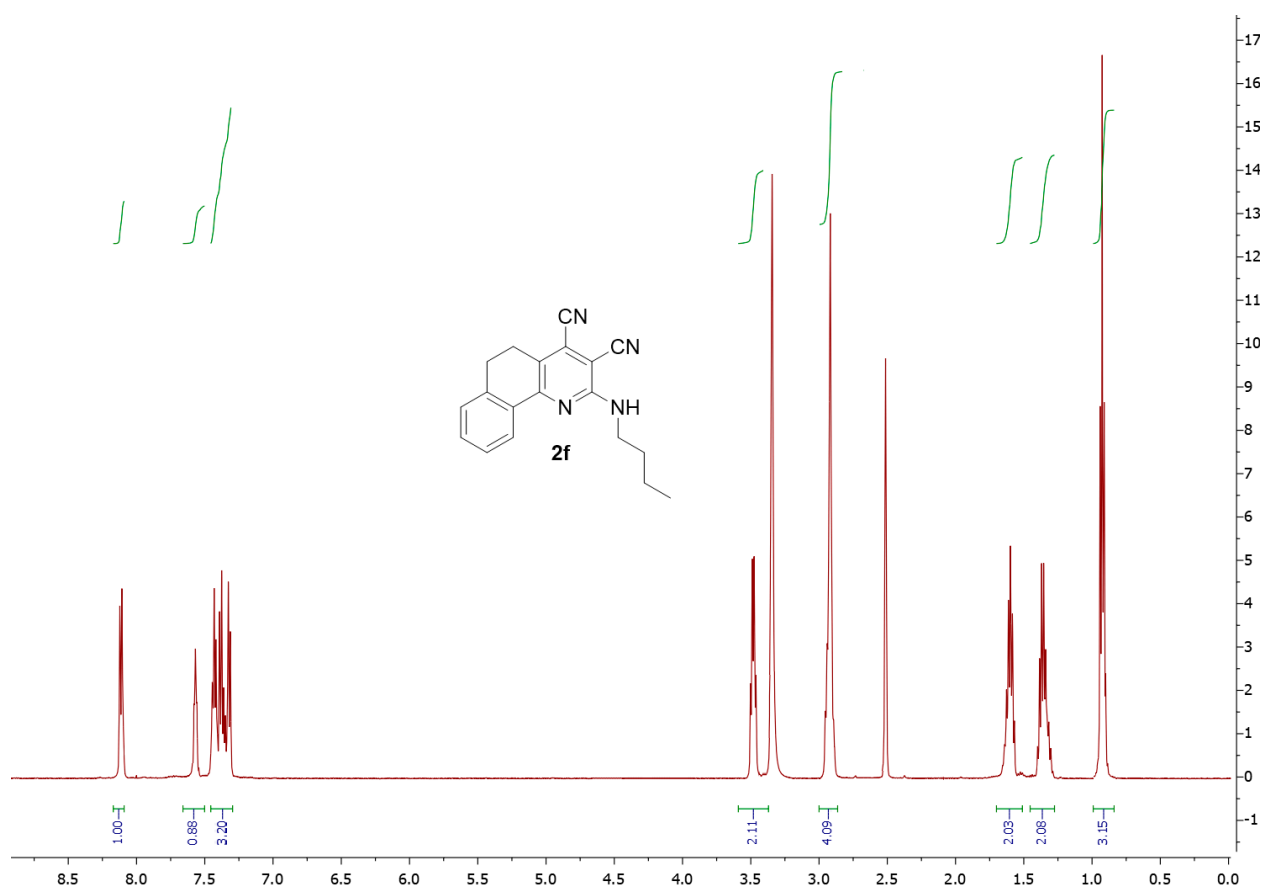


Figure S11. <sup>1</sup>H NMR-spectrum of **2f** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

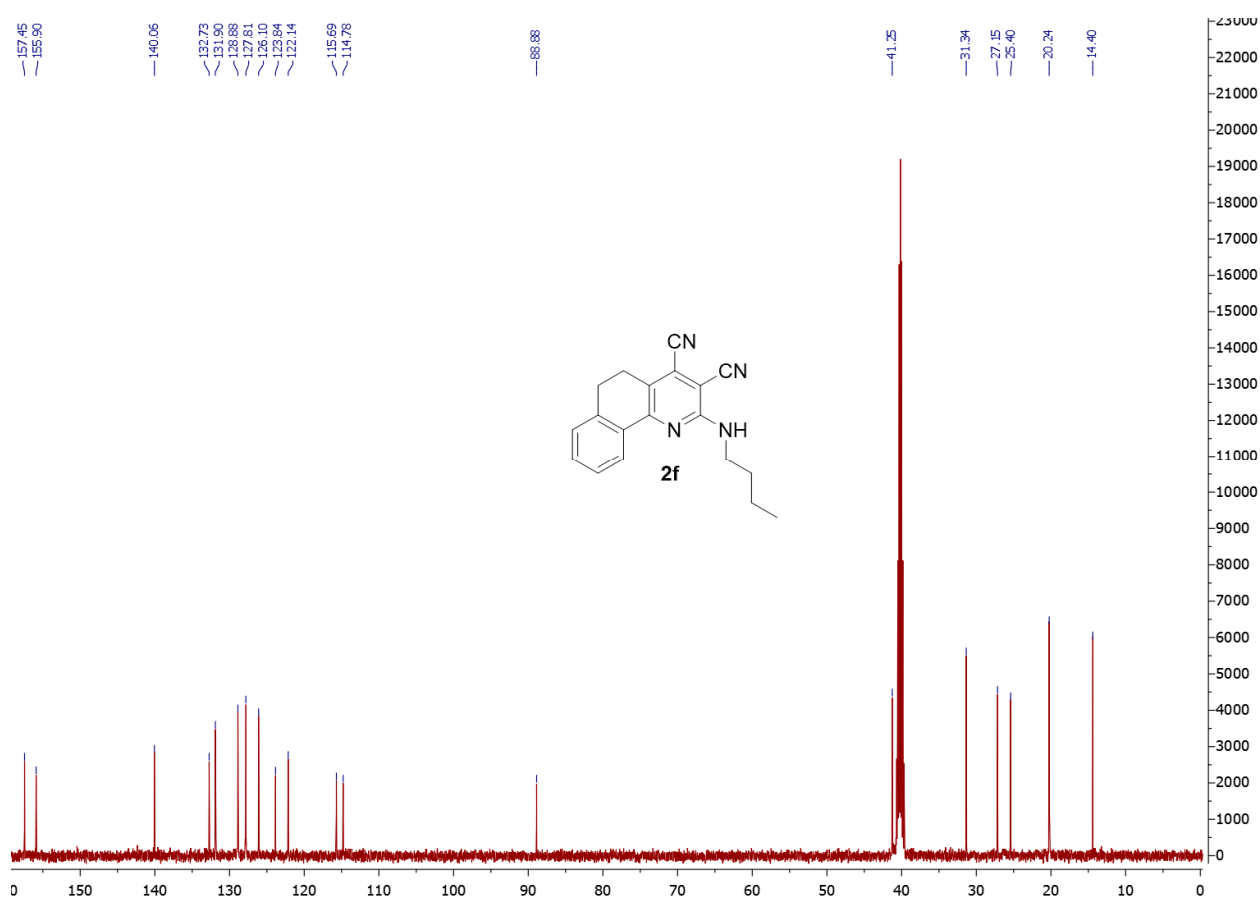


Figure S12. <sup>13</sup>C NMR-spectrum of **2f** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

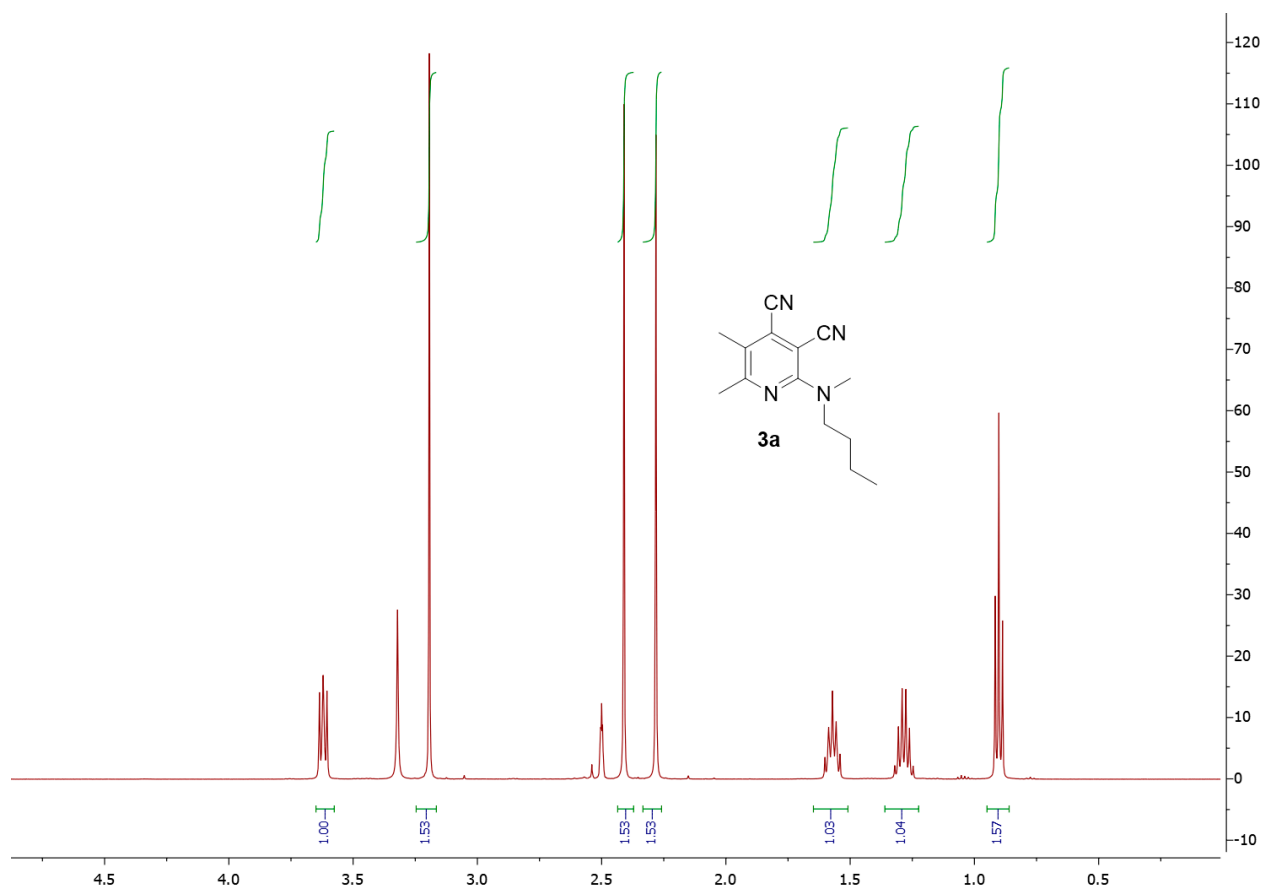


Figure S13.  $^1\text{H}$  NMR-spectrum of **3a** (500.13 MHz, DMSO- $d_6$ , 298K)

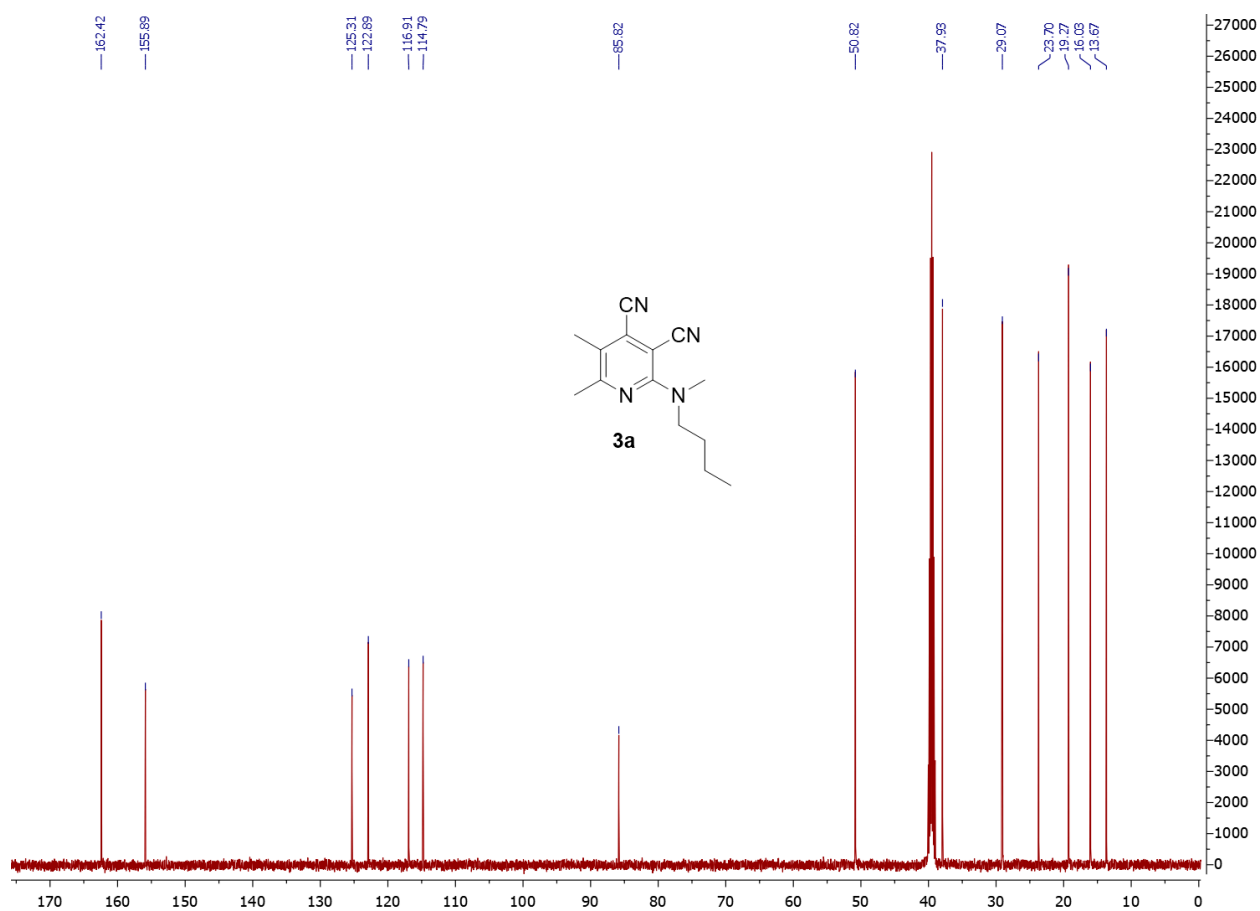


Figure S14.  $^{13}\text{C}$  NMR-spectrum of **3a** (125.76 MHz, DMSO- $d_6$ , 299K)



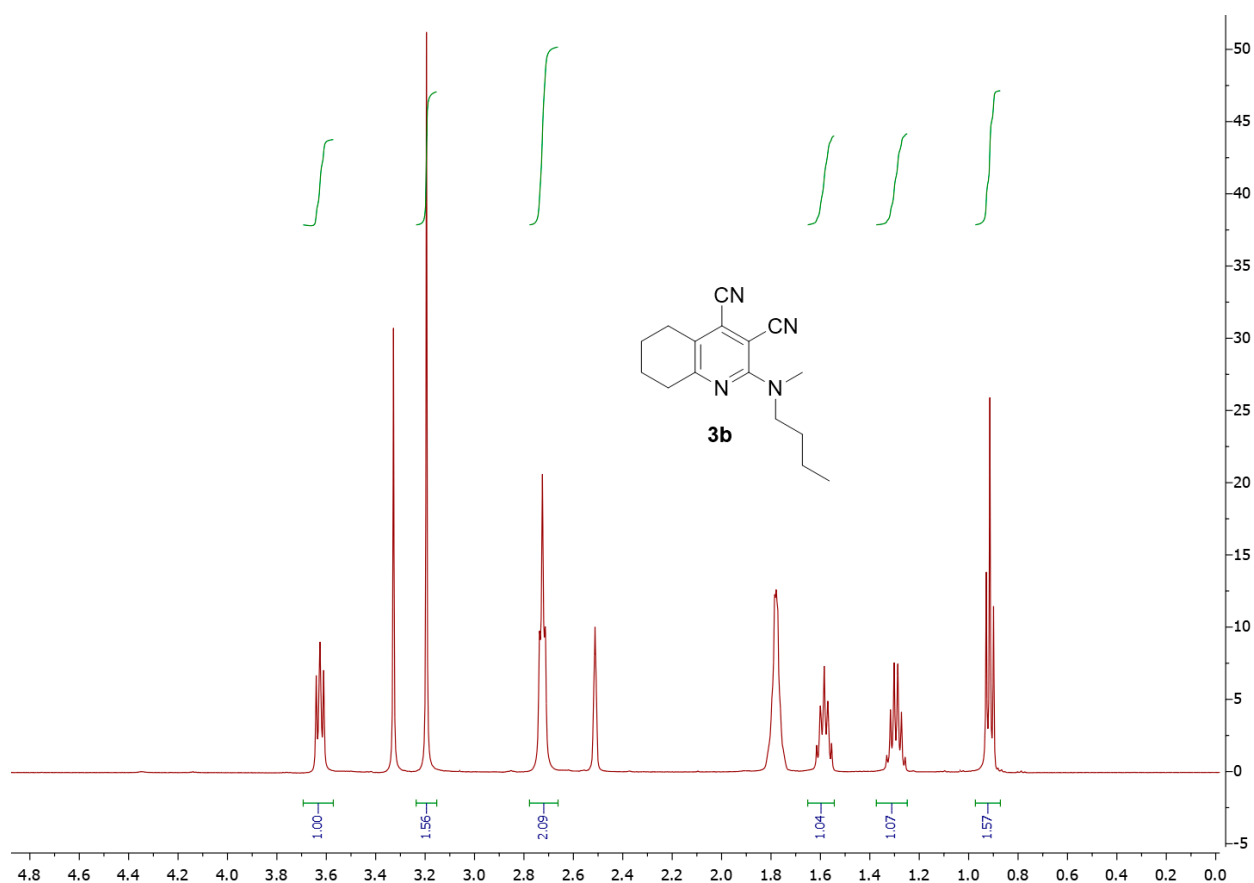


Figure S15. <sup>1</sup>H NMR-spectrum of **3b** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

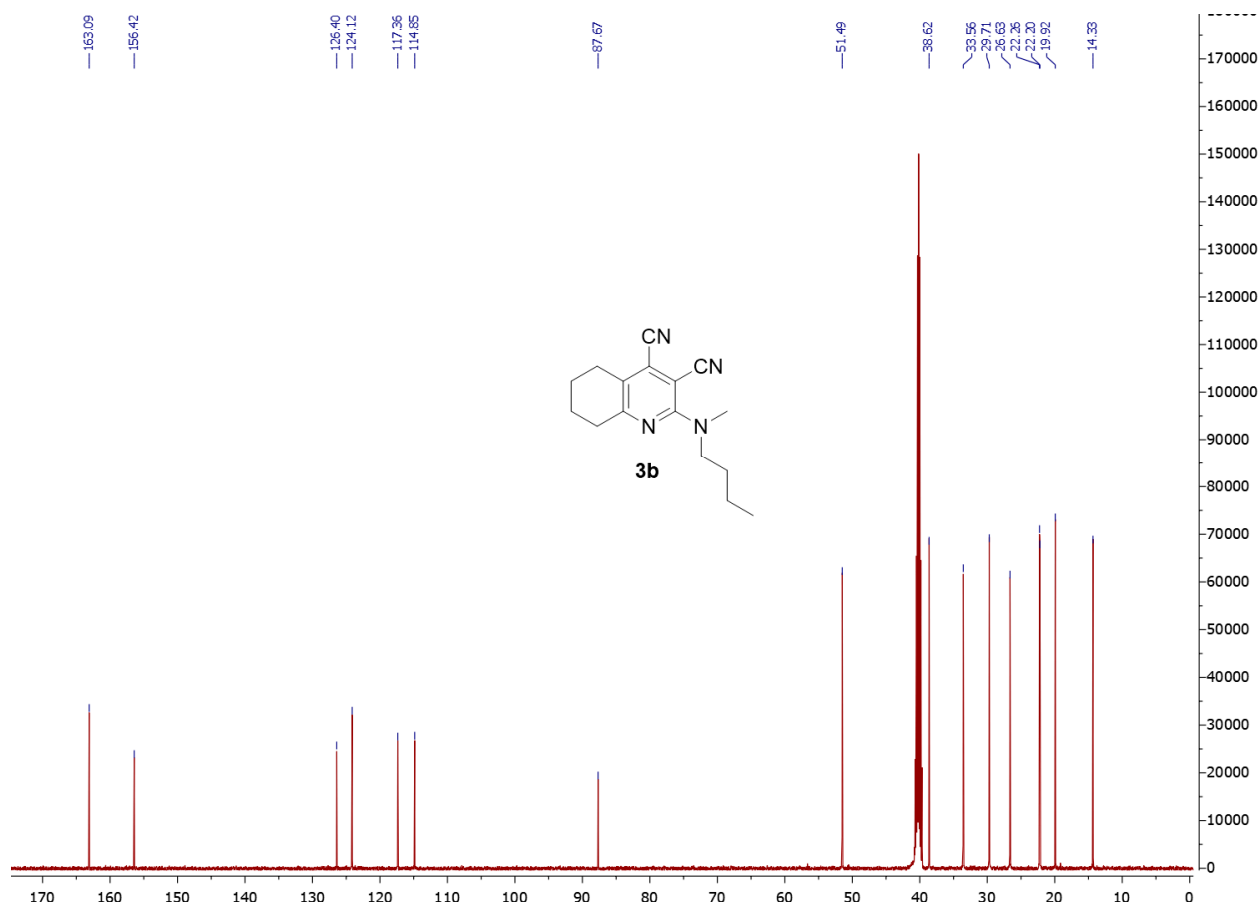


Figure S16. <sup>13</sup>C NMR-spectrum of **3b** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

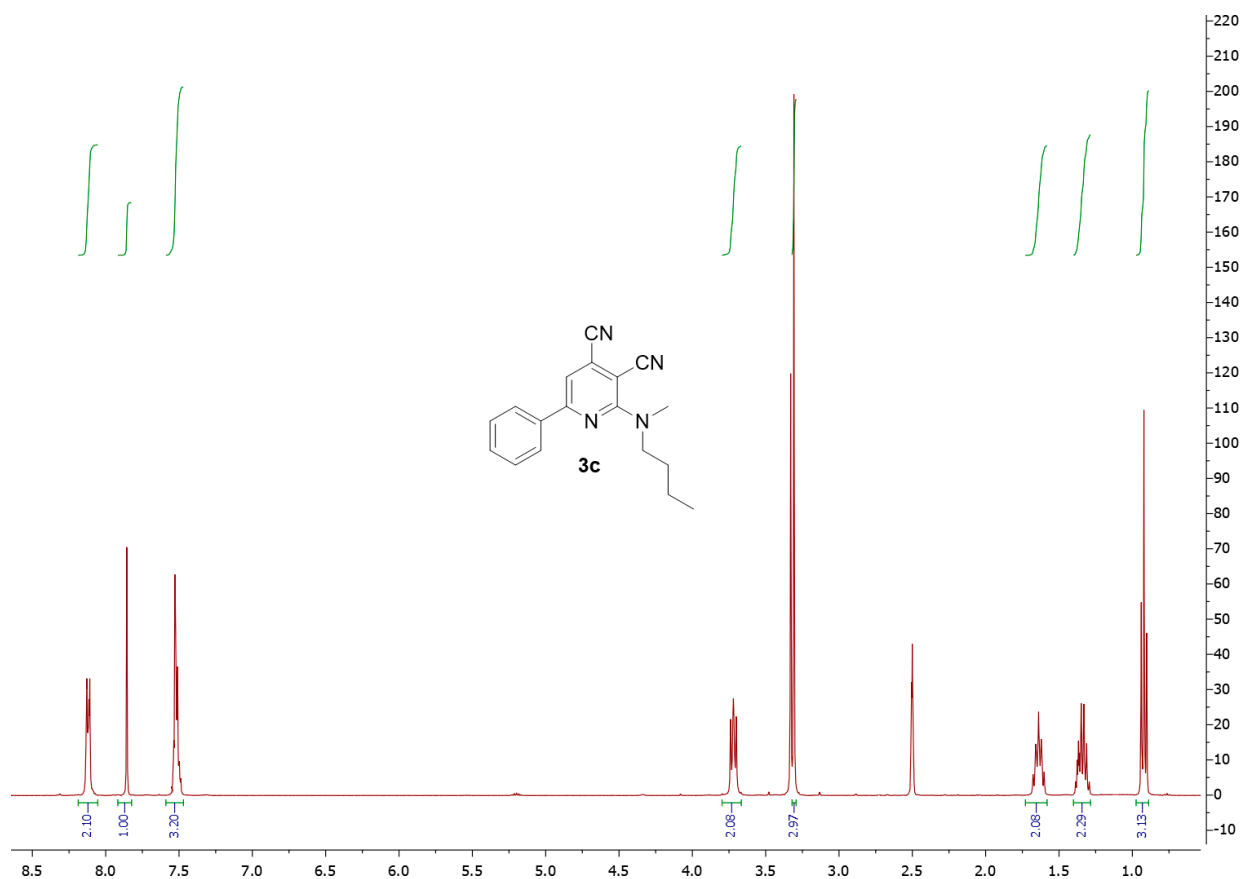


Figure S17. <sup>1</sup>H NMR-spectrum of **3c** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

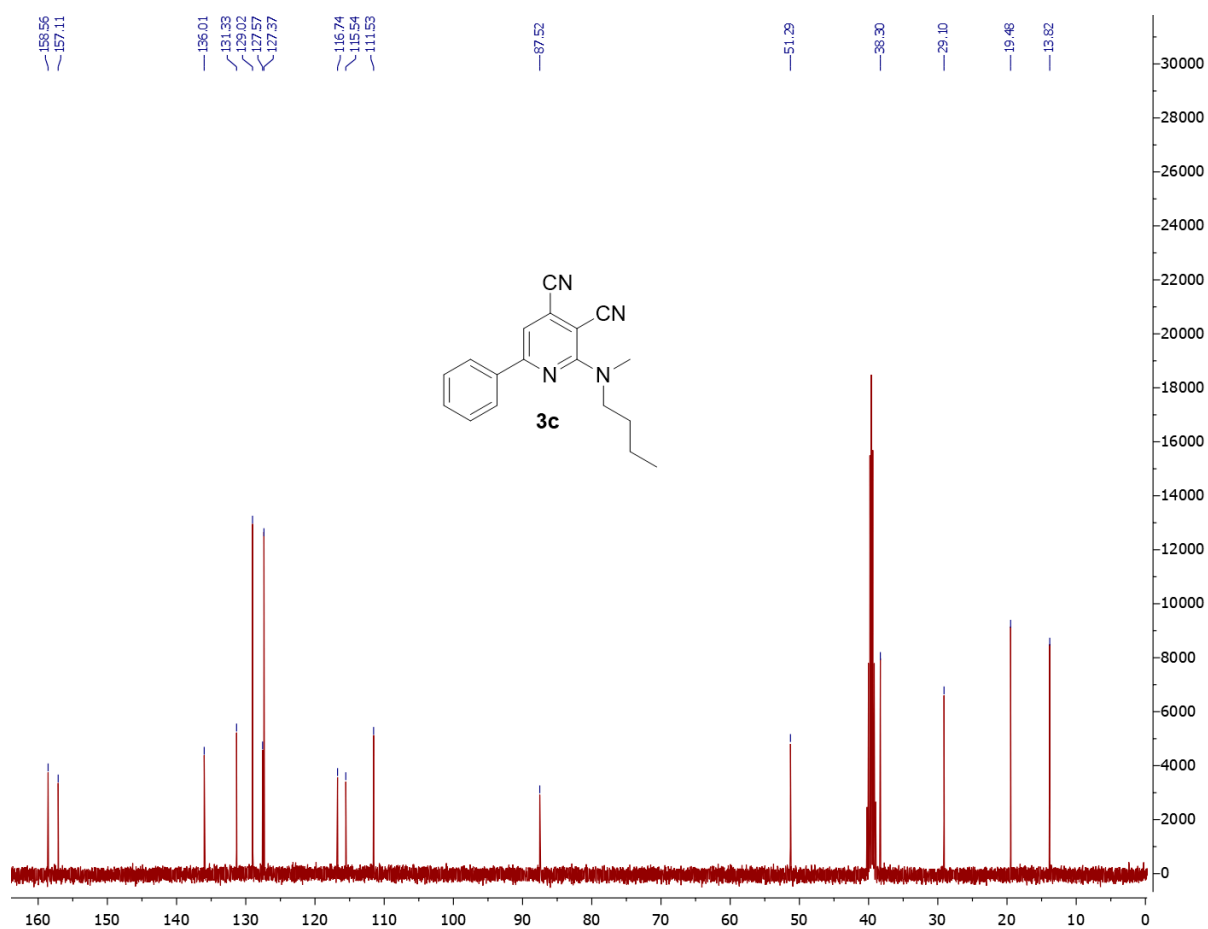


Figure S18. <sup>13</sup>C NMR-spectrum of **3c** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

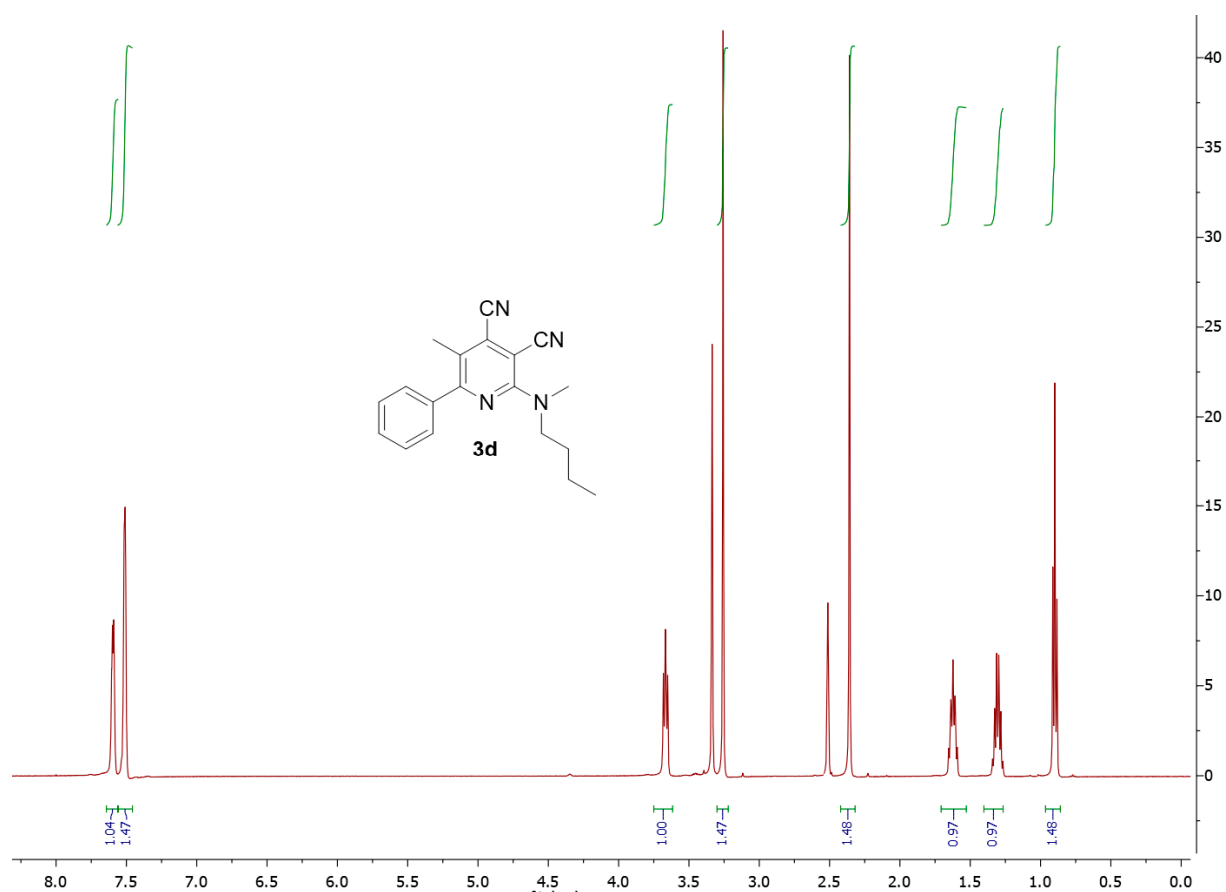


Figure S19. <sup>1</sup>H NMR-spectrum of **3d** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

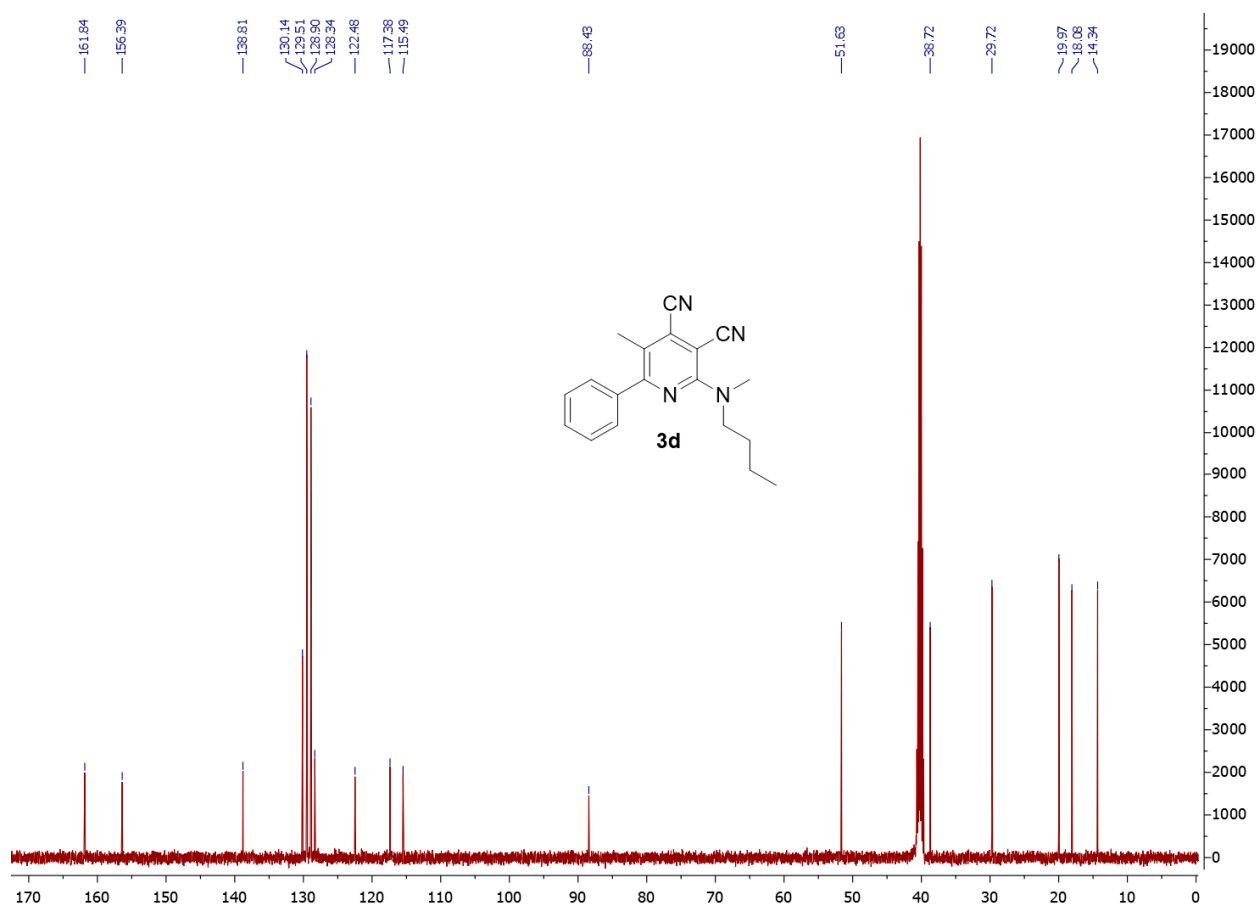


Figure S20. <sup>13</sup>C NMR-spectrum of **3d** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

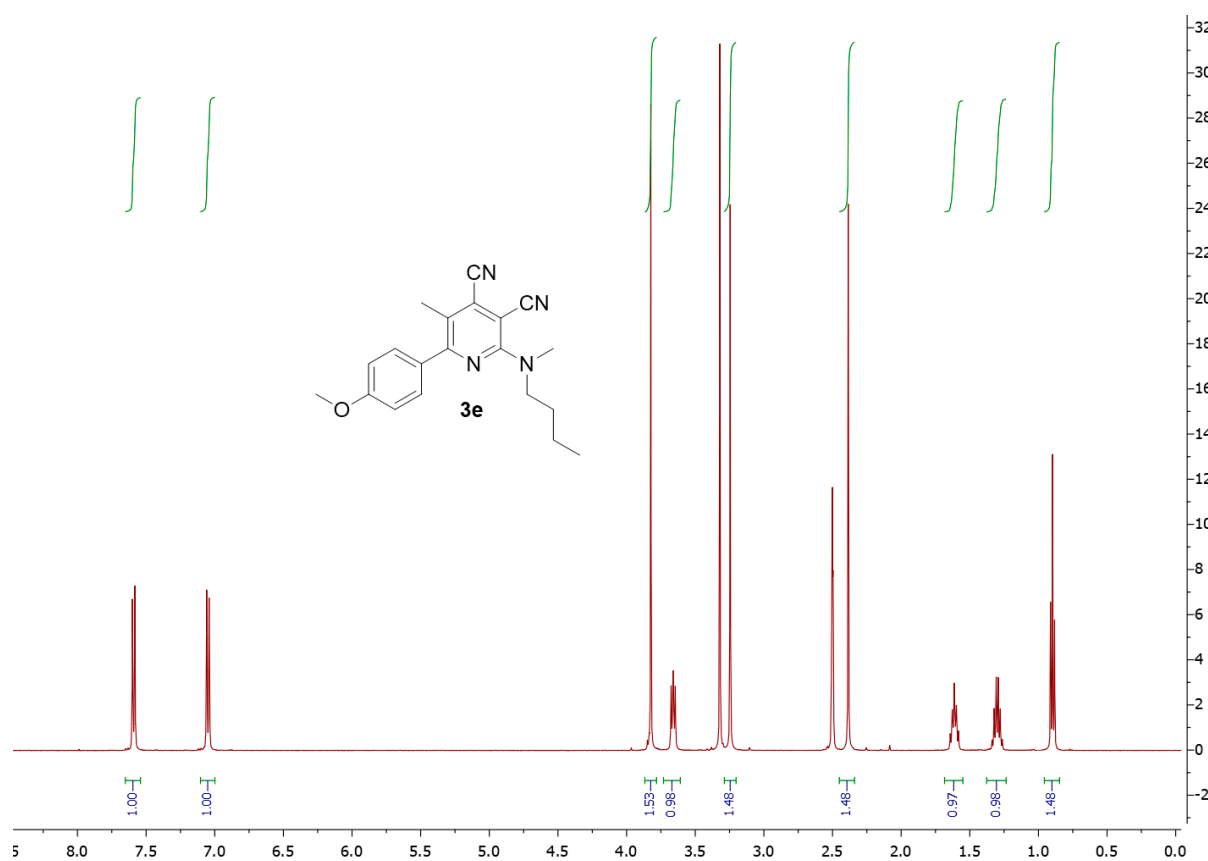


Figure S21. <sup>1</sup>H NMR-spectrum of **3e** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

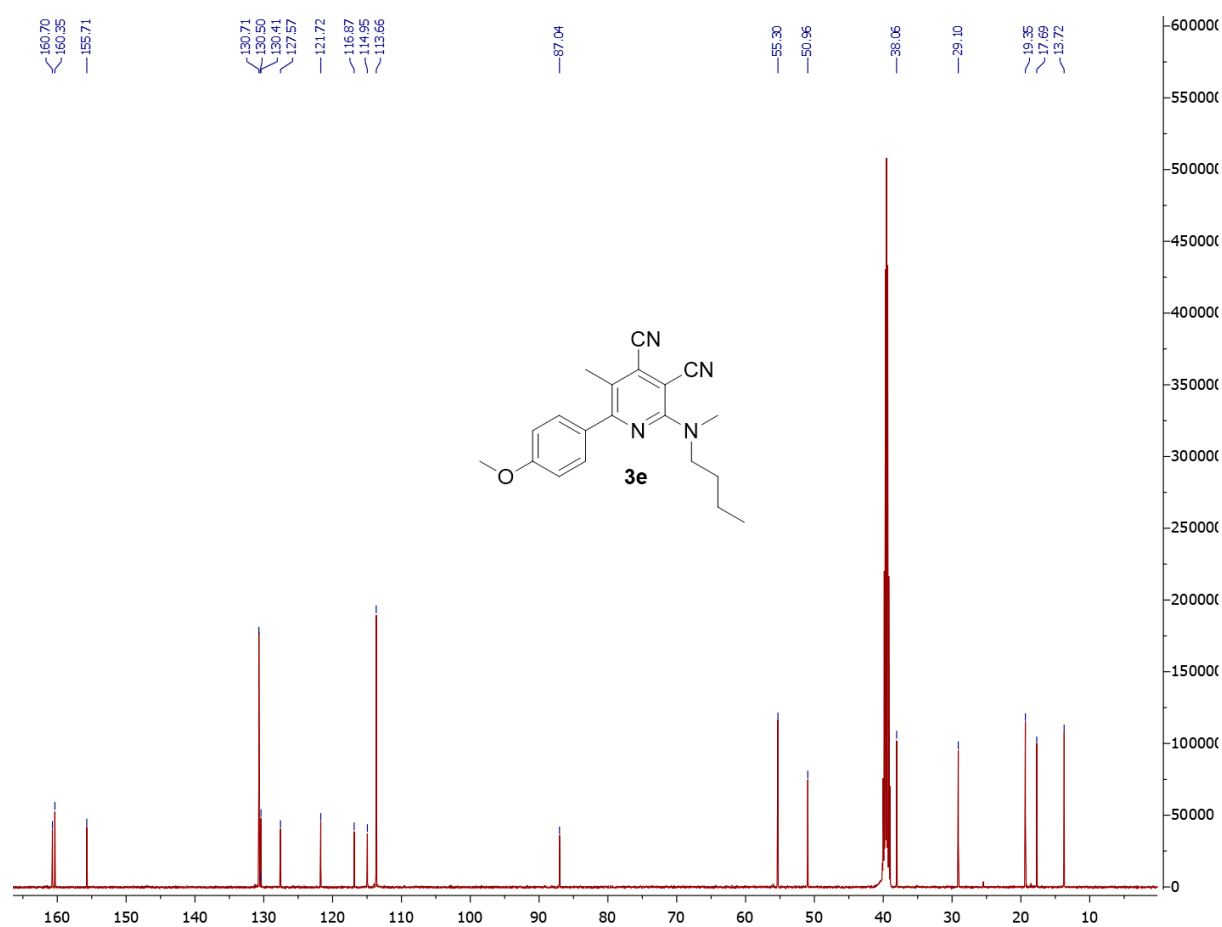


Figure S22. <sup>13</sup>C NMR-spectrum of **3e** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

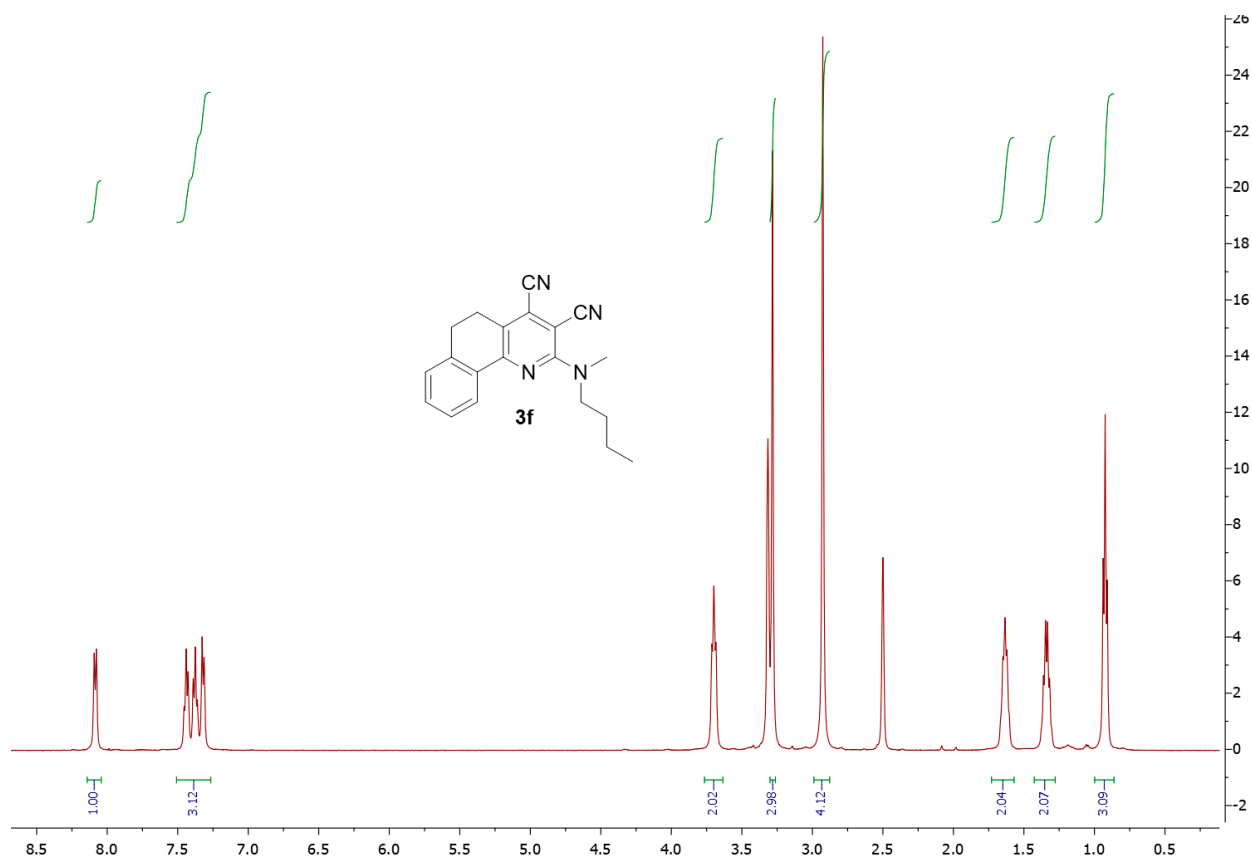


Figure S23. <sup>1</sup>H NMR-spectrum of **3f** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

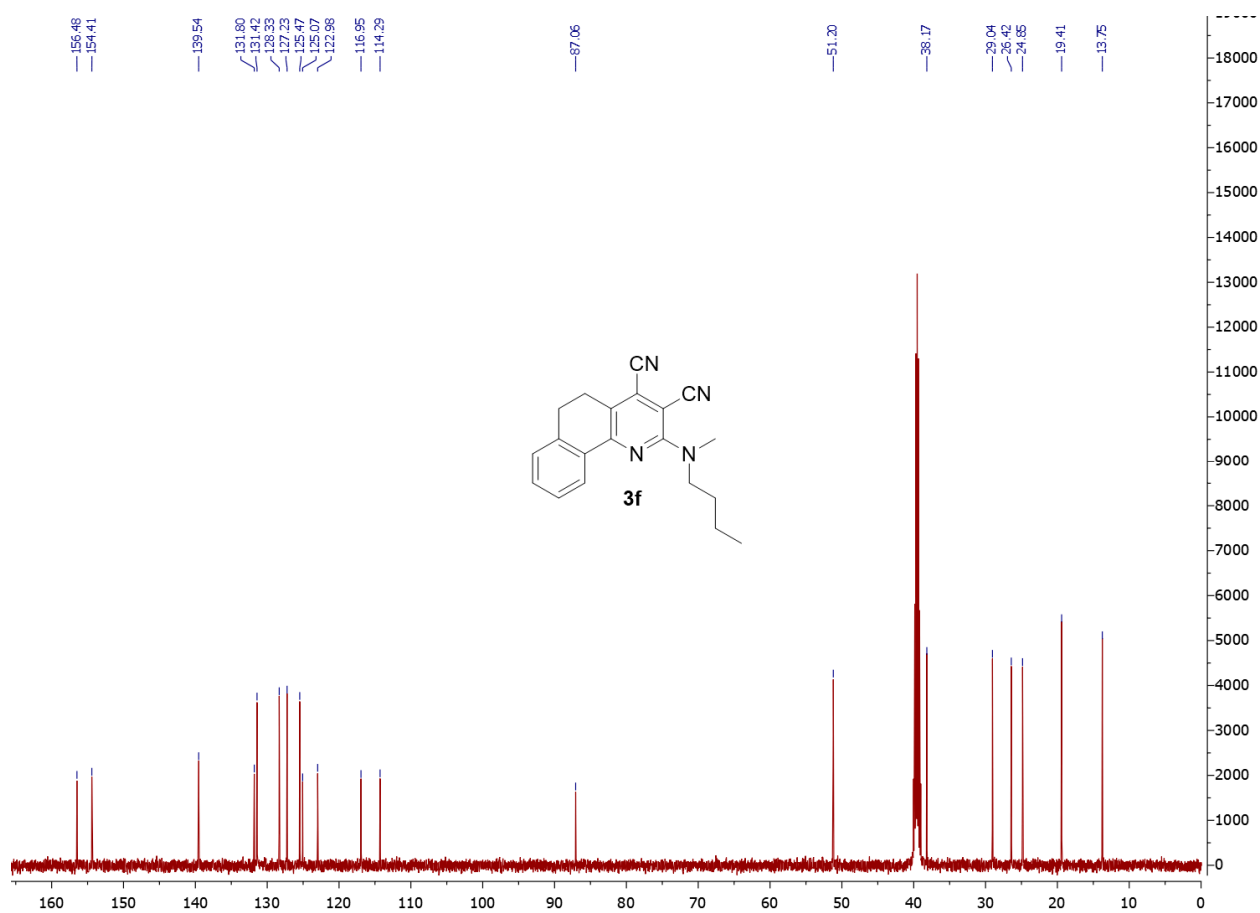
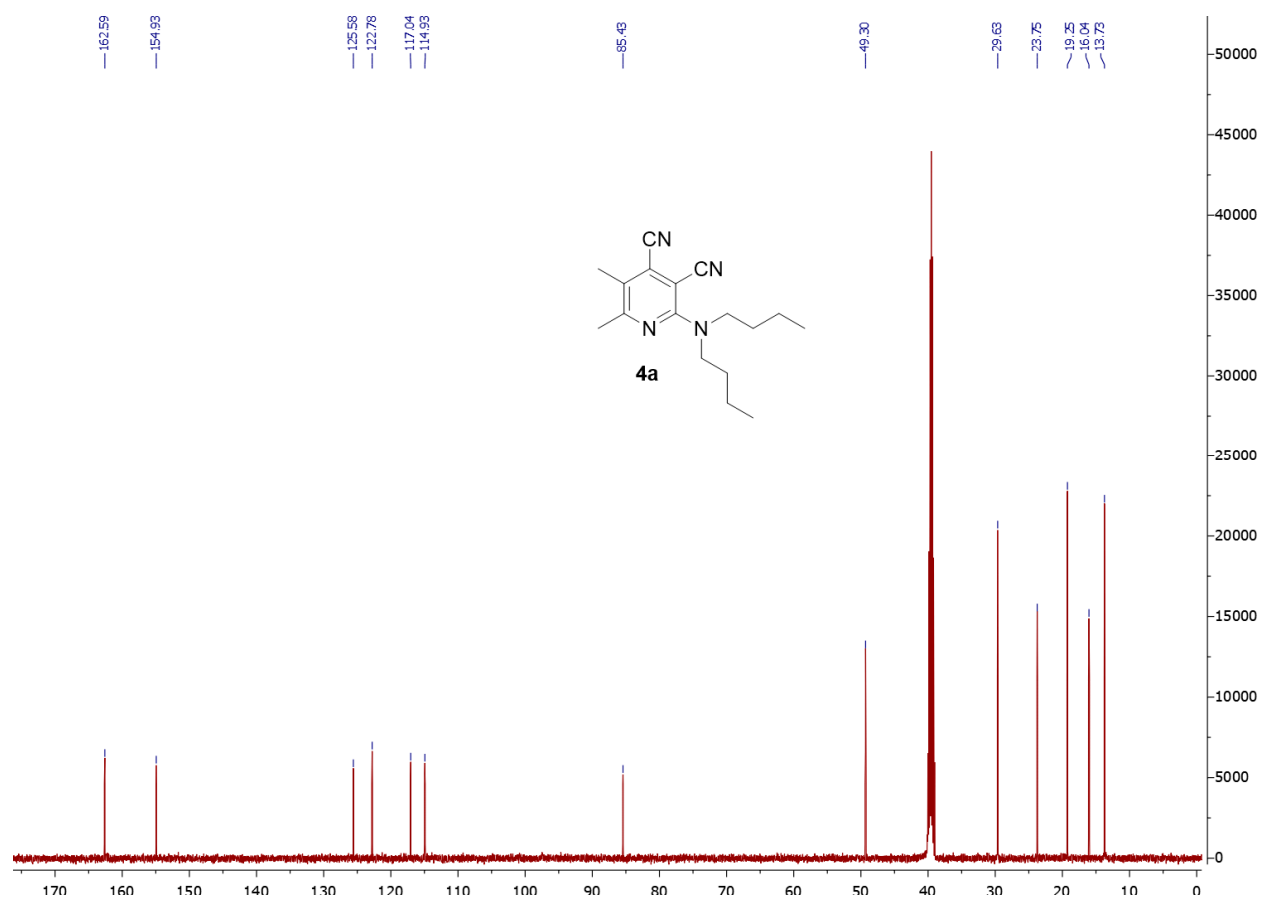
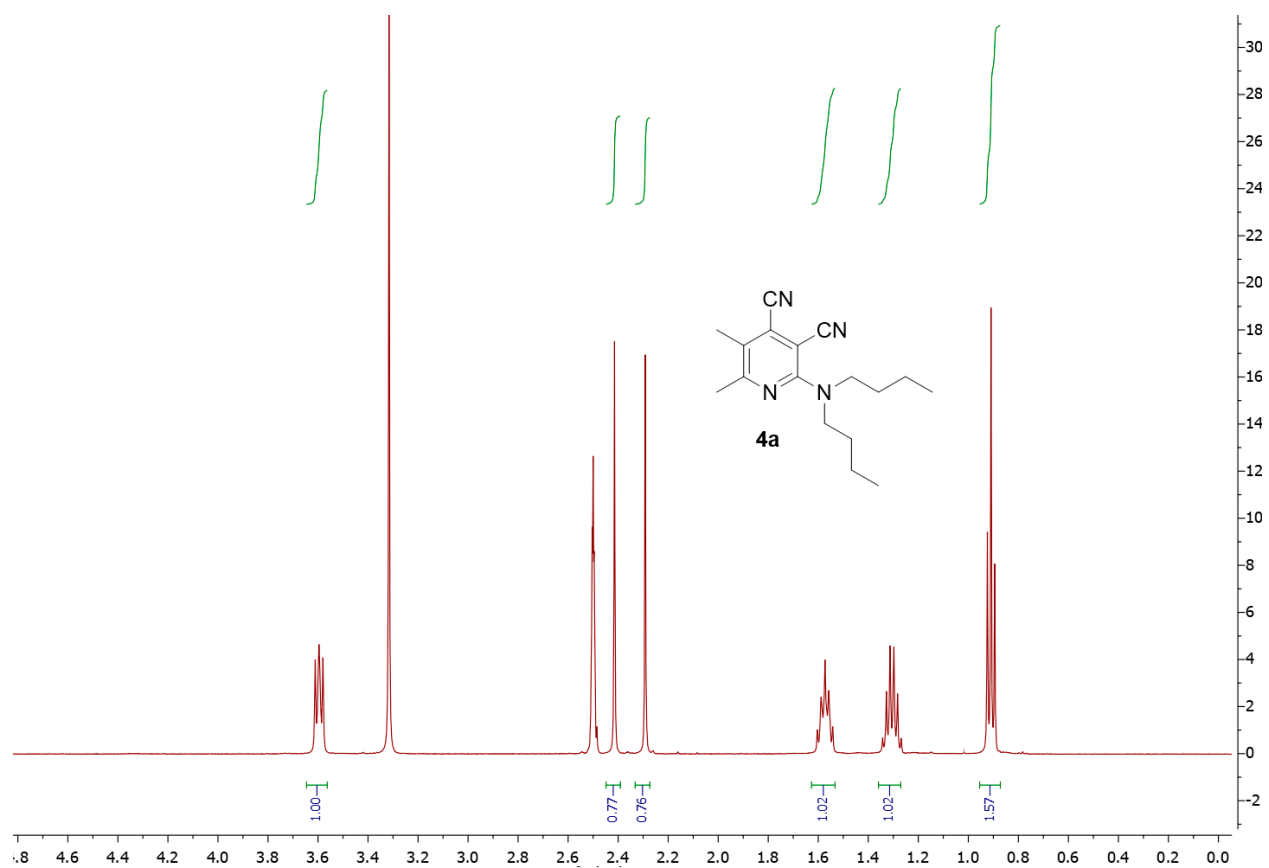


Figure S24. <sup>13</sup>C NMR-spectrum of **3f** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)



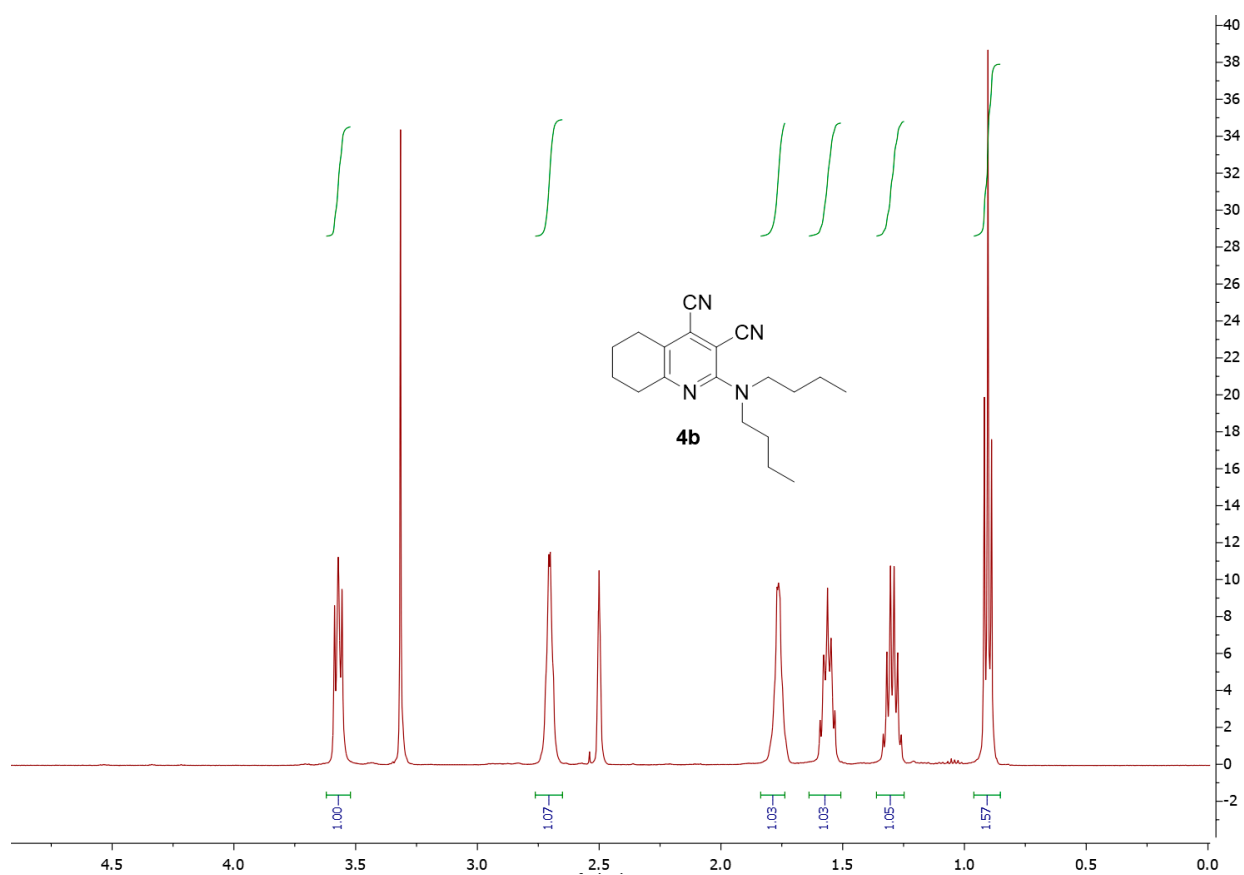


Figure S27. <sup>1</sup>H NMR-spectrum of **4b** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

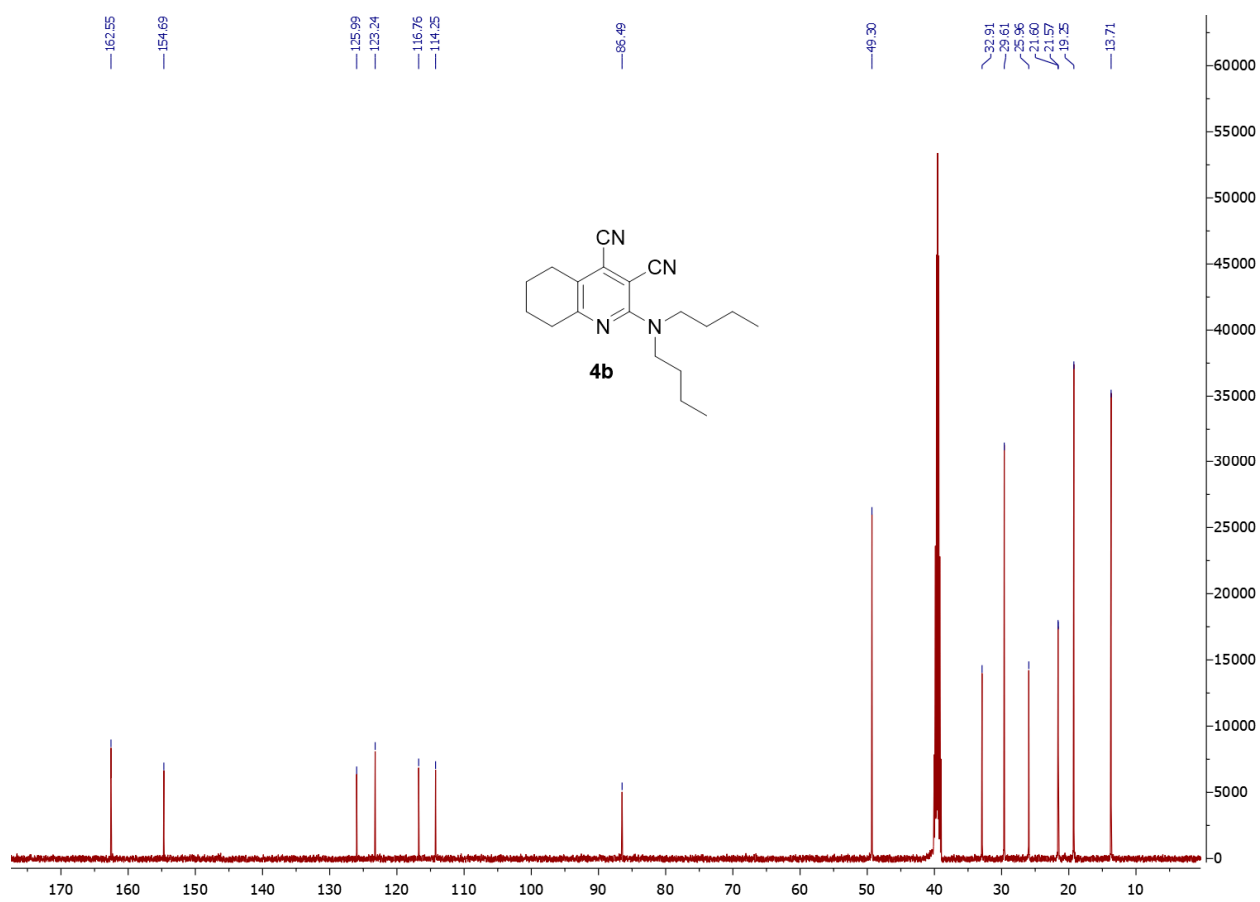


Figure S28. <sup>13</sup>C NMR-spectrum of **4b** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

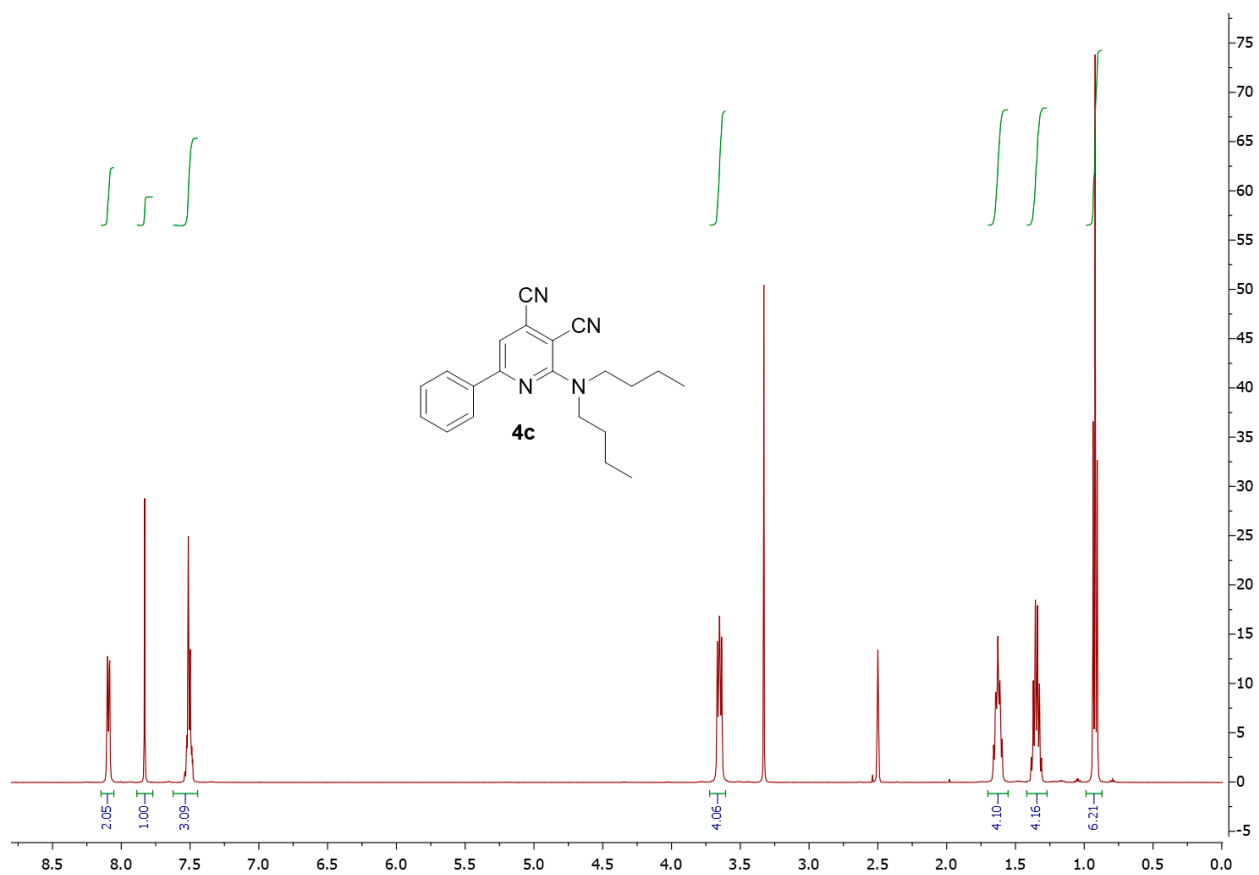


Figure S29. <sup>1</sup>H NMR-spectrum of **4c** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

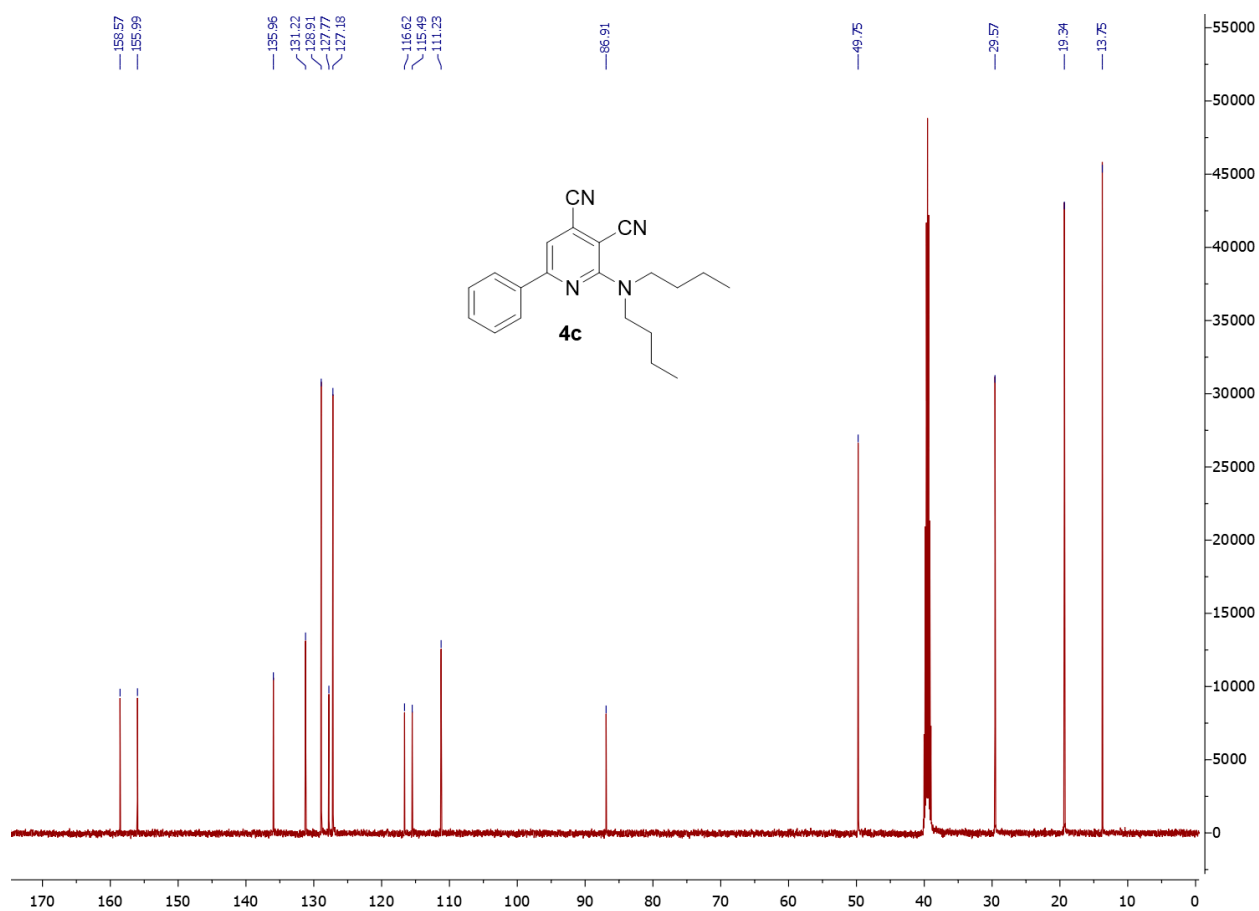


Figure S30. <sup>13</sup>C NMR-spectrum of **4c** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)



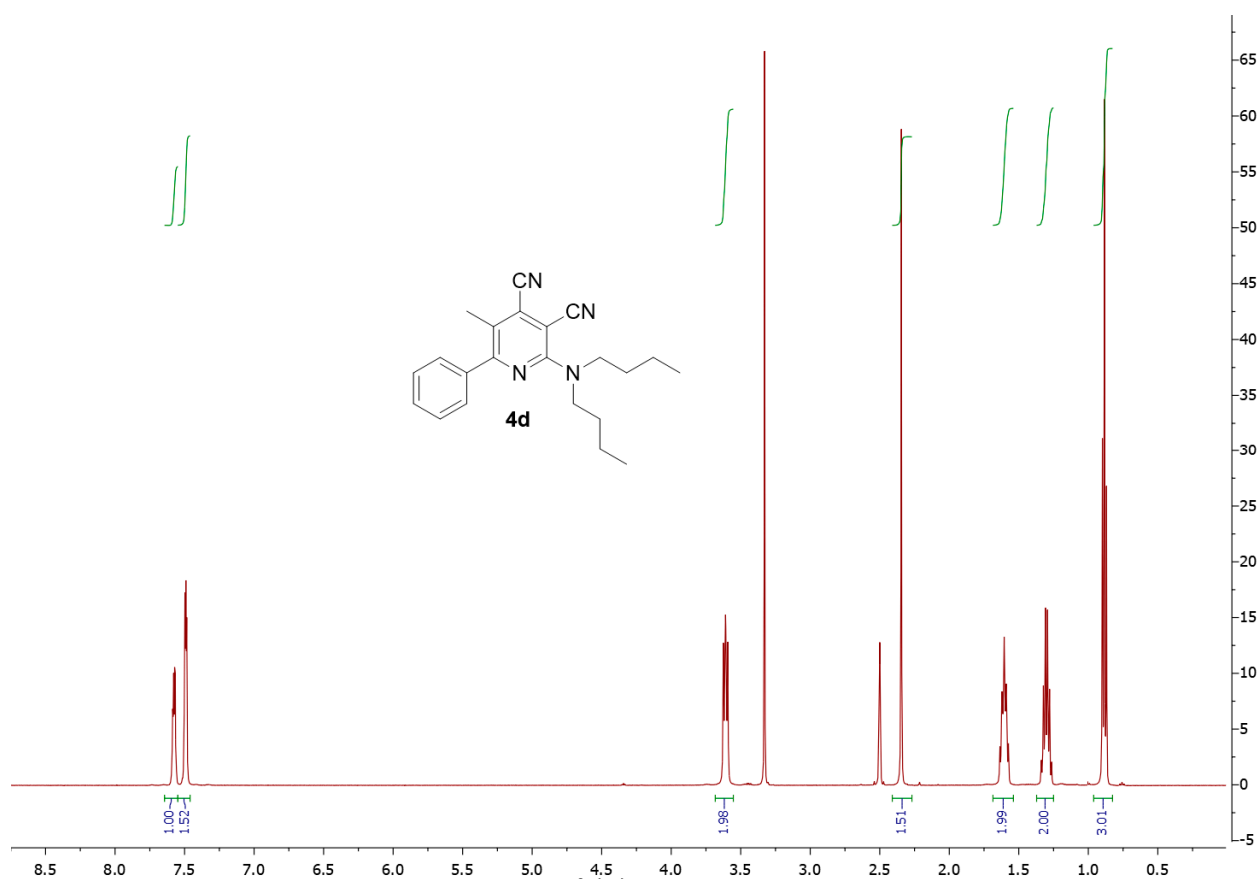


Figure S31. <sup>1</sup>H NMR-spectrum of **4d** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

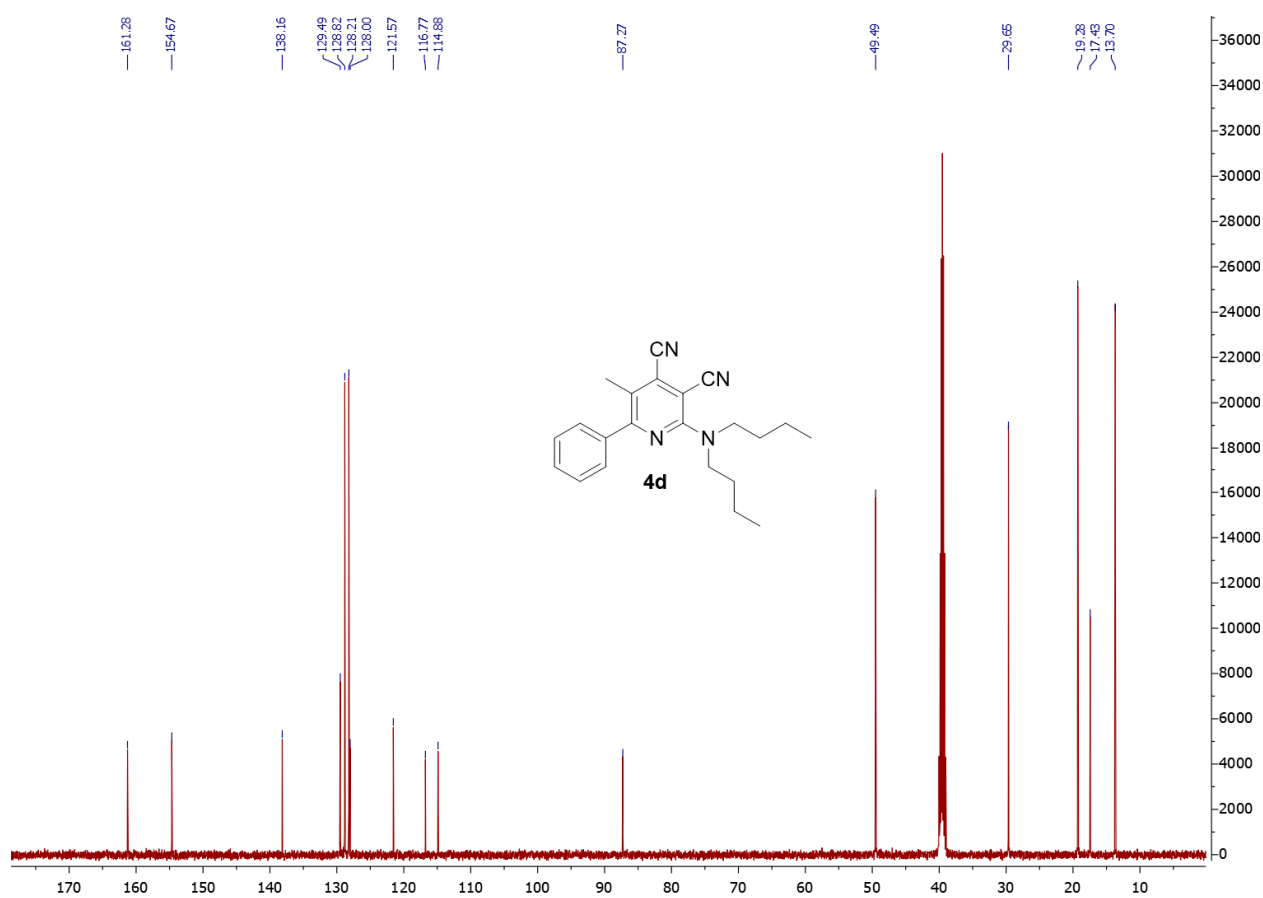


Figure S32. <sup>13</sup>C NMR-spectrum of **4d** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

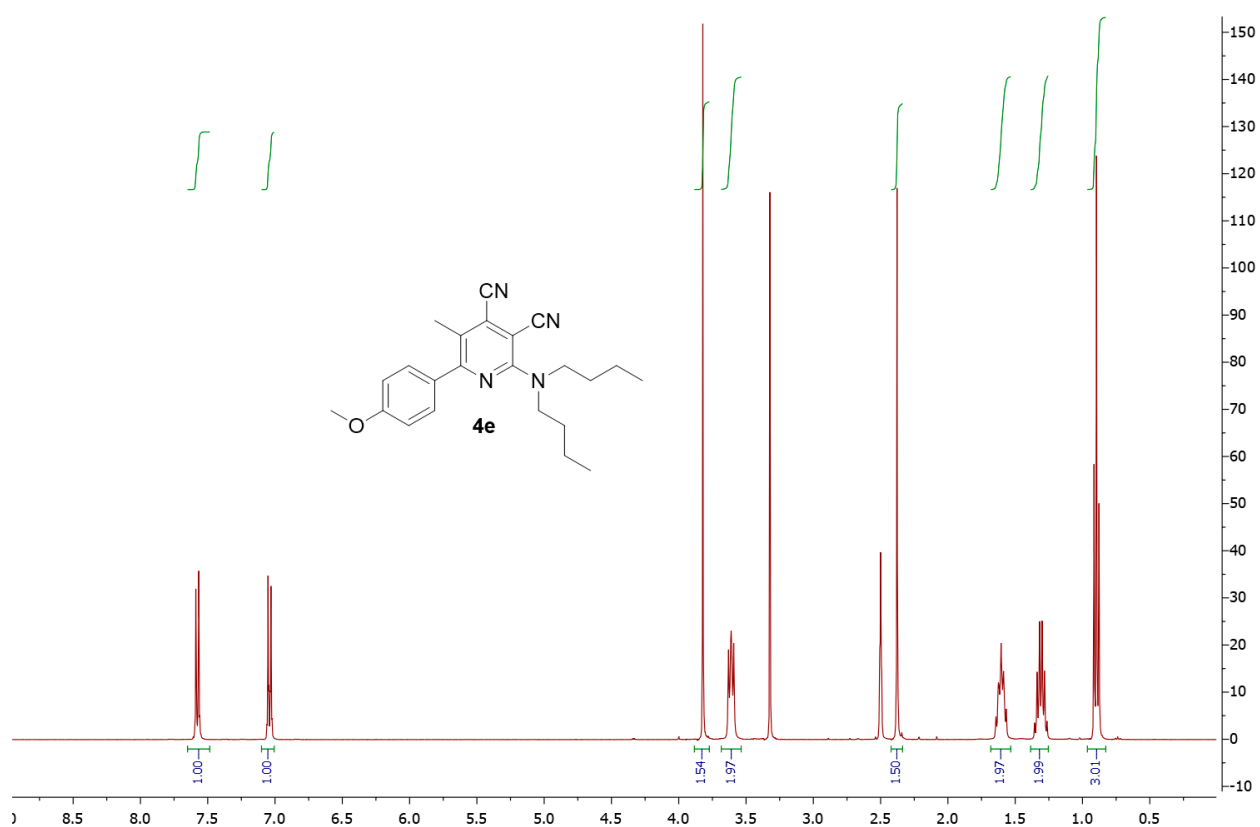


Figure S33. <sup>1</sup>H NMR-spectrum of **4e** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

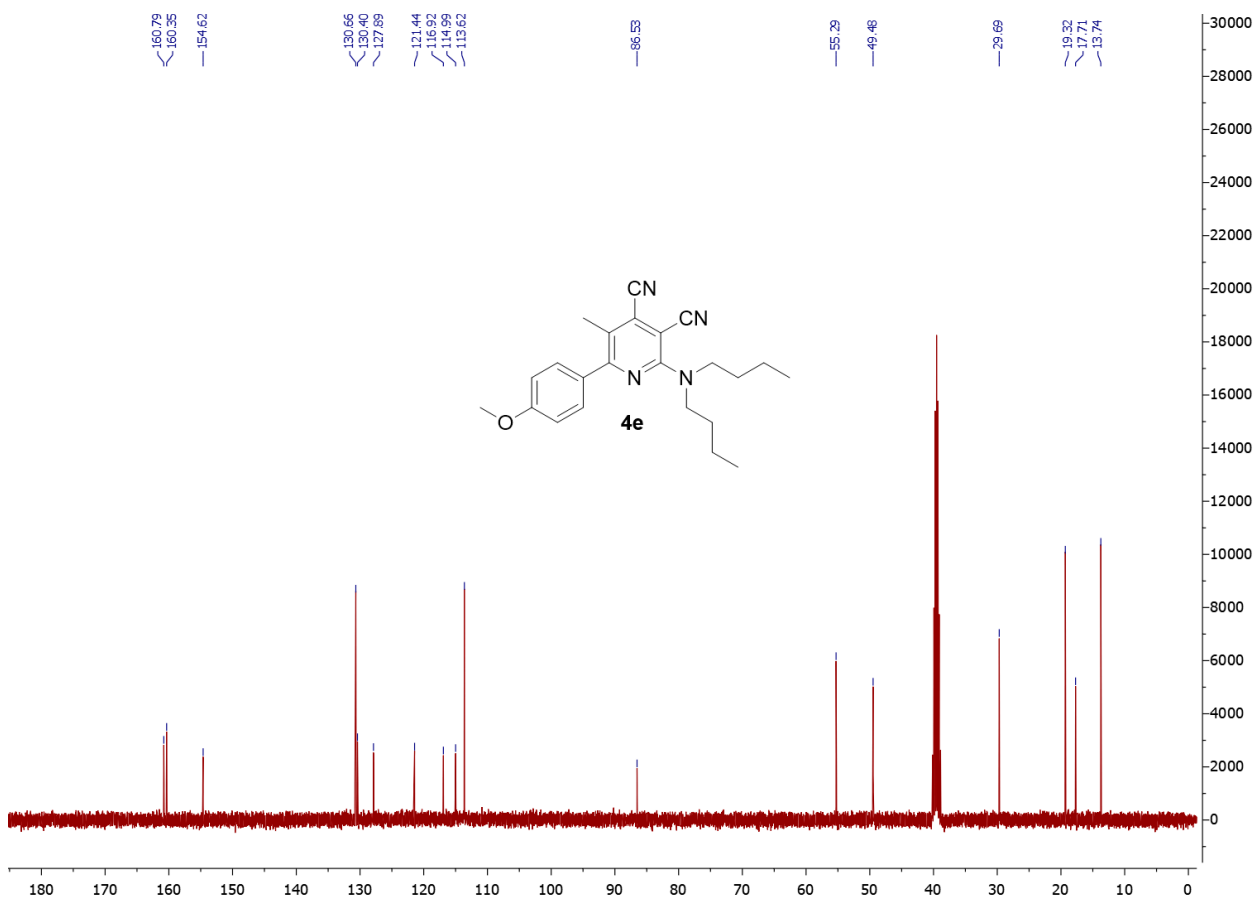


Figure S34. <sup>13</sup>C NMR-spectrum of **4e** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

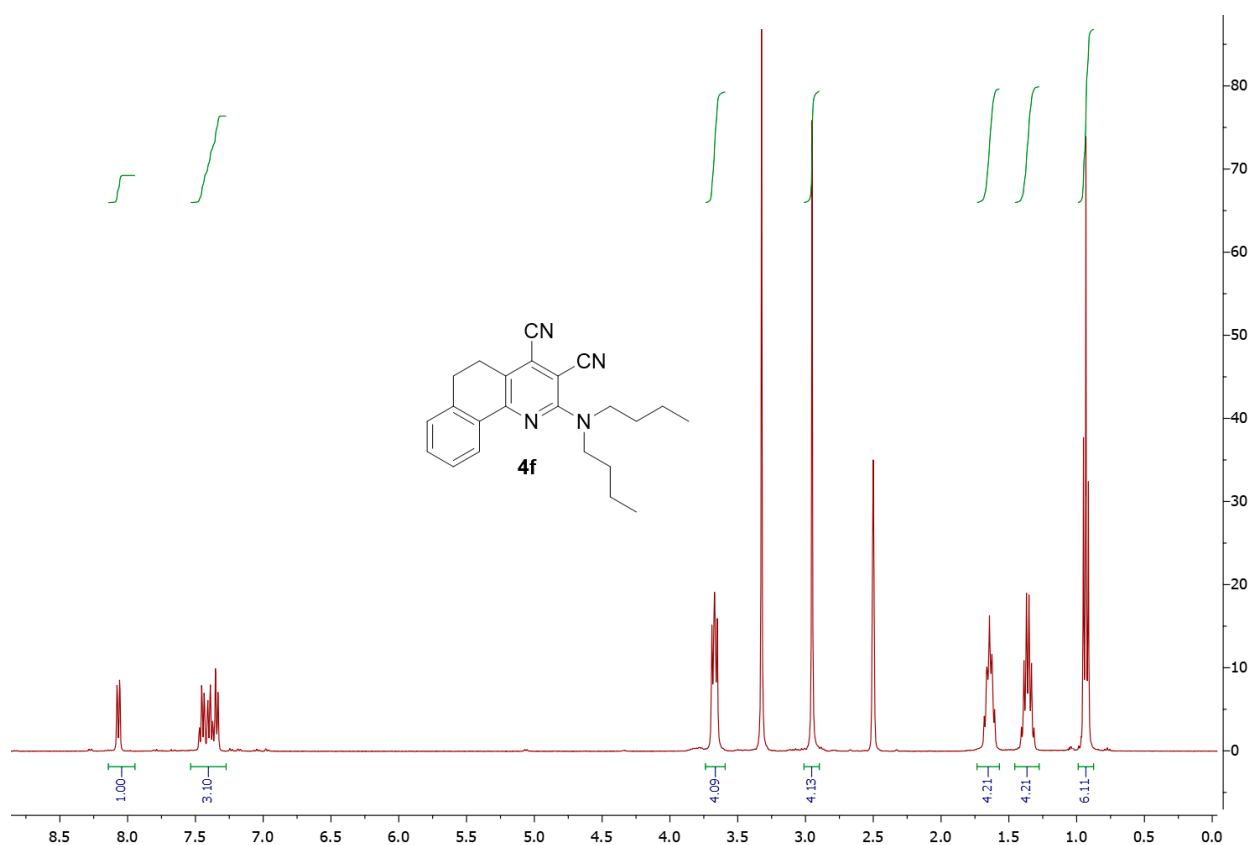


Figure S35. <sup>1</sup>H NMR-spectrum of **4f** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

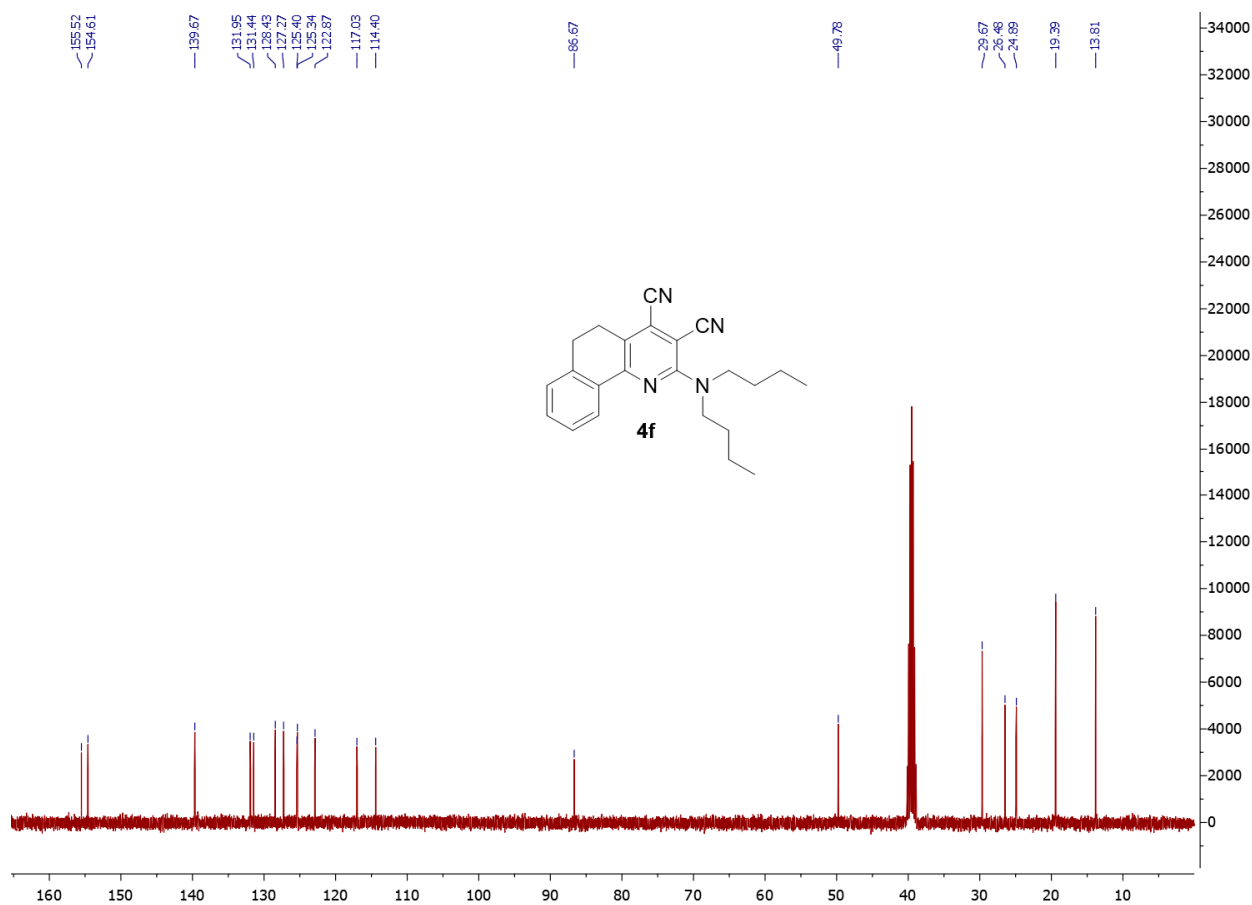


Figure S36. <sup>13</sup>C NMR-spectrum of **4f** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

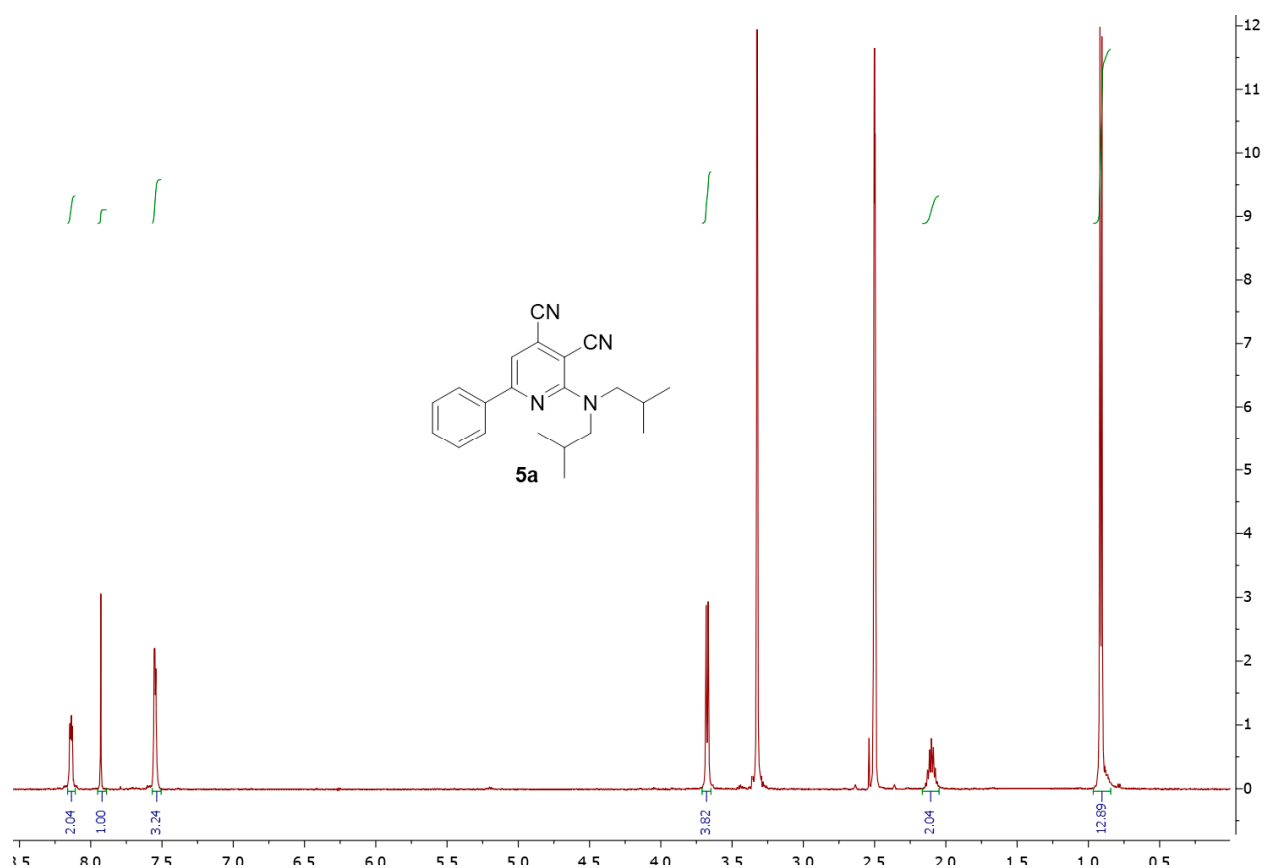


Figure S37. <sup>1</sup>H NMR-spectrum of **5a** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

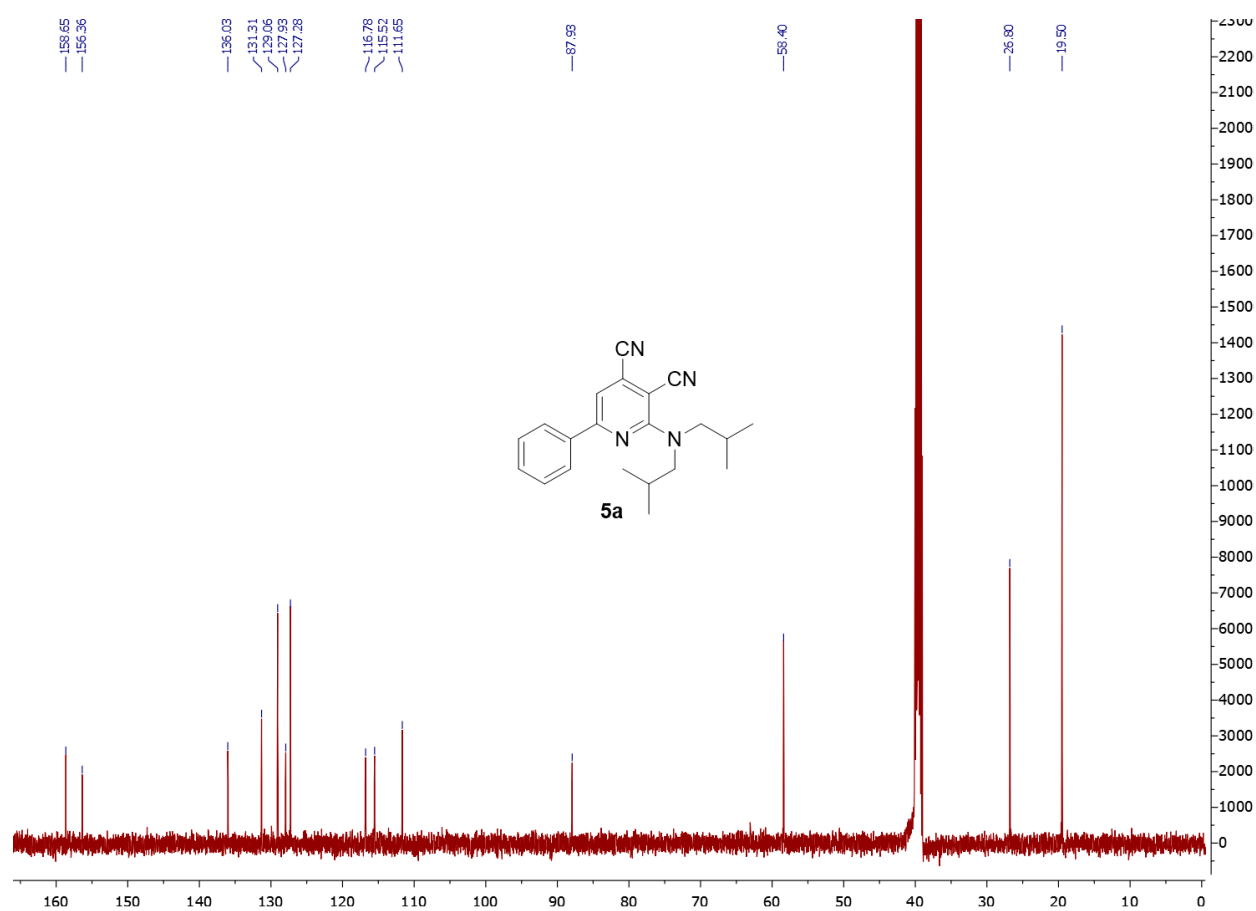


Figure S38. <sup>13</sup>C NMR-spectrum of **5a** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)

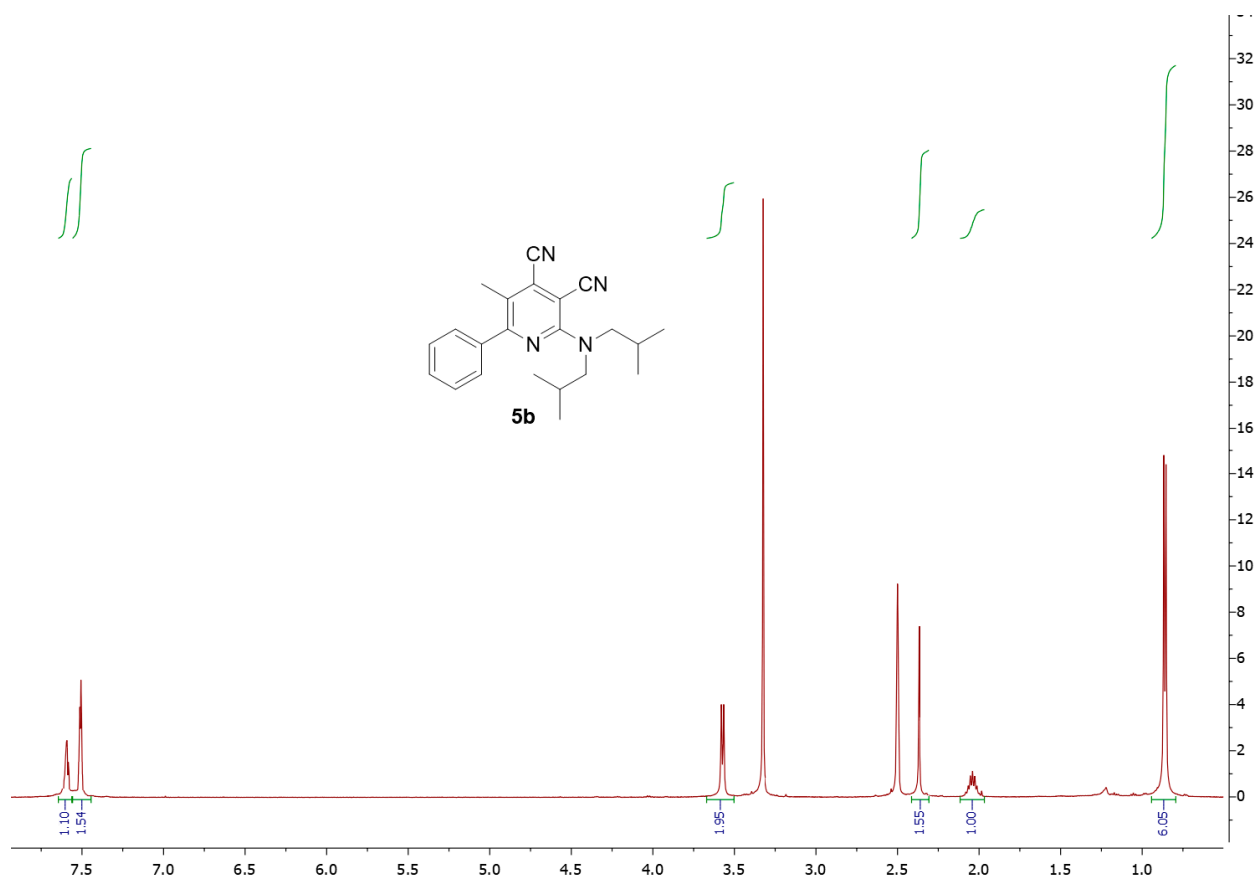


Figure S39. <sup>1</sup>H NMR-spectrum of **5b** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

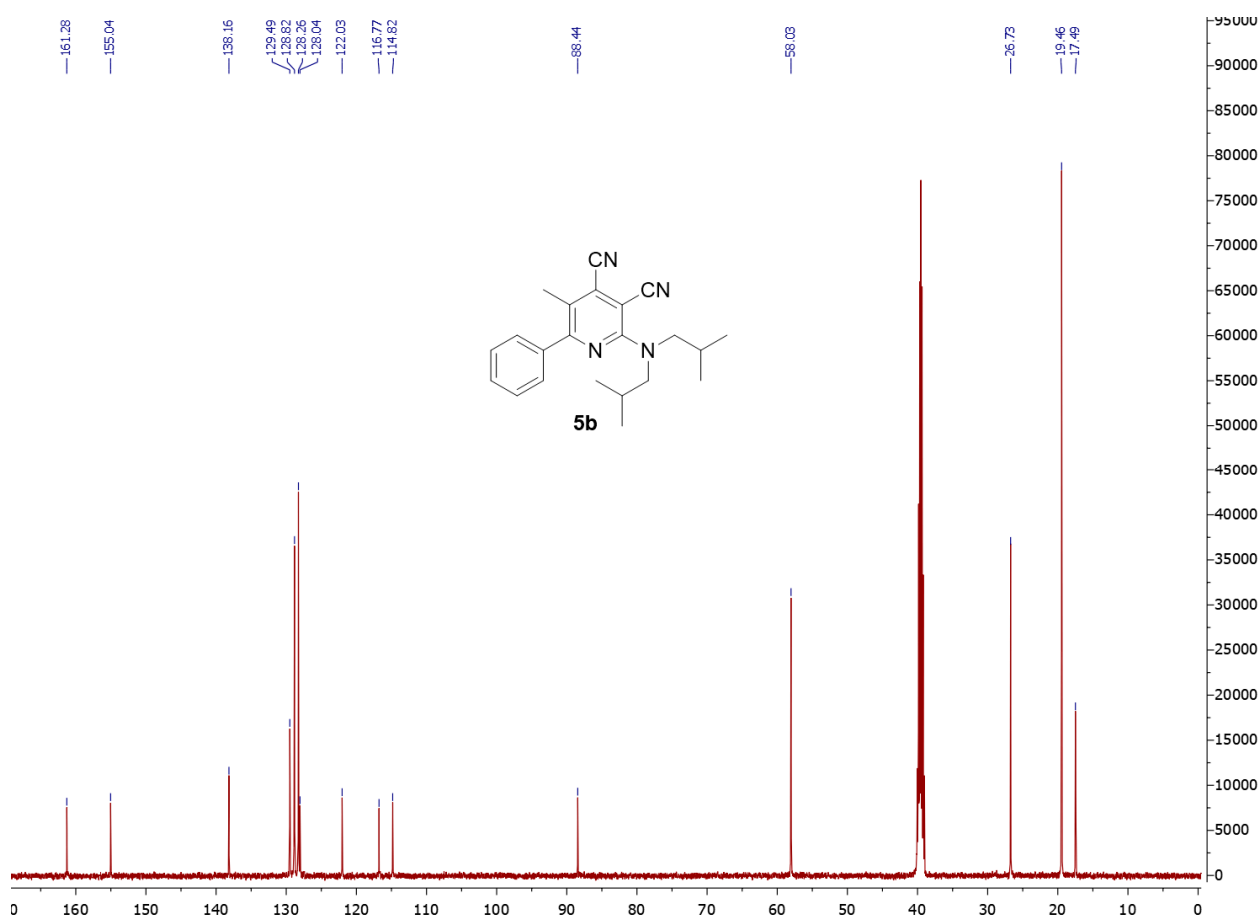
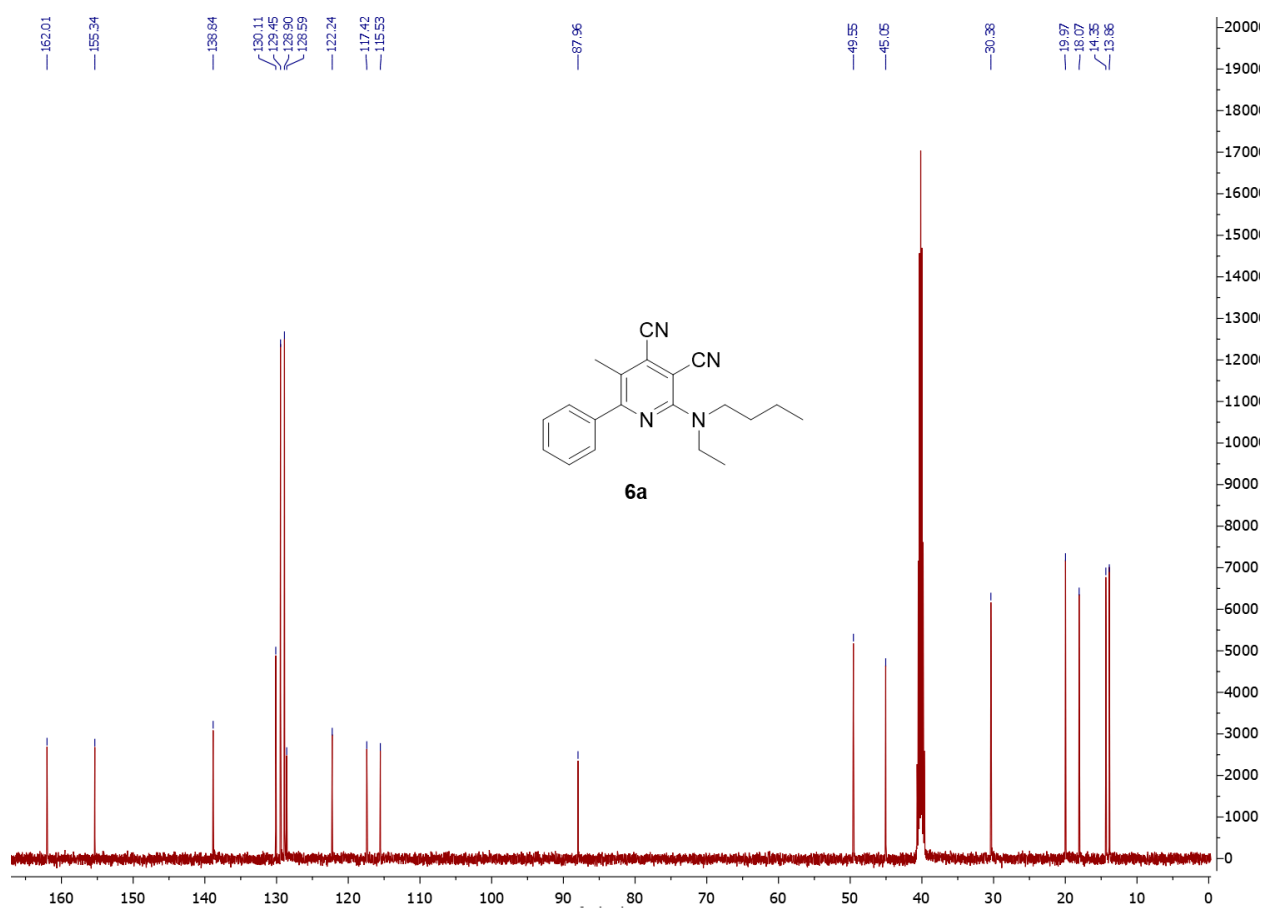
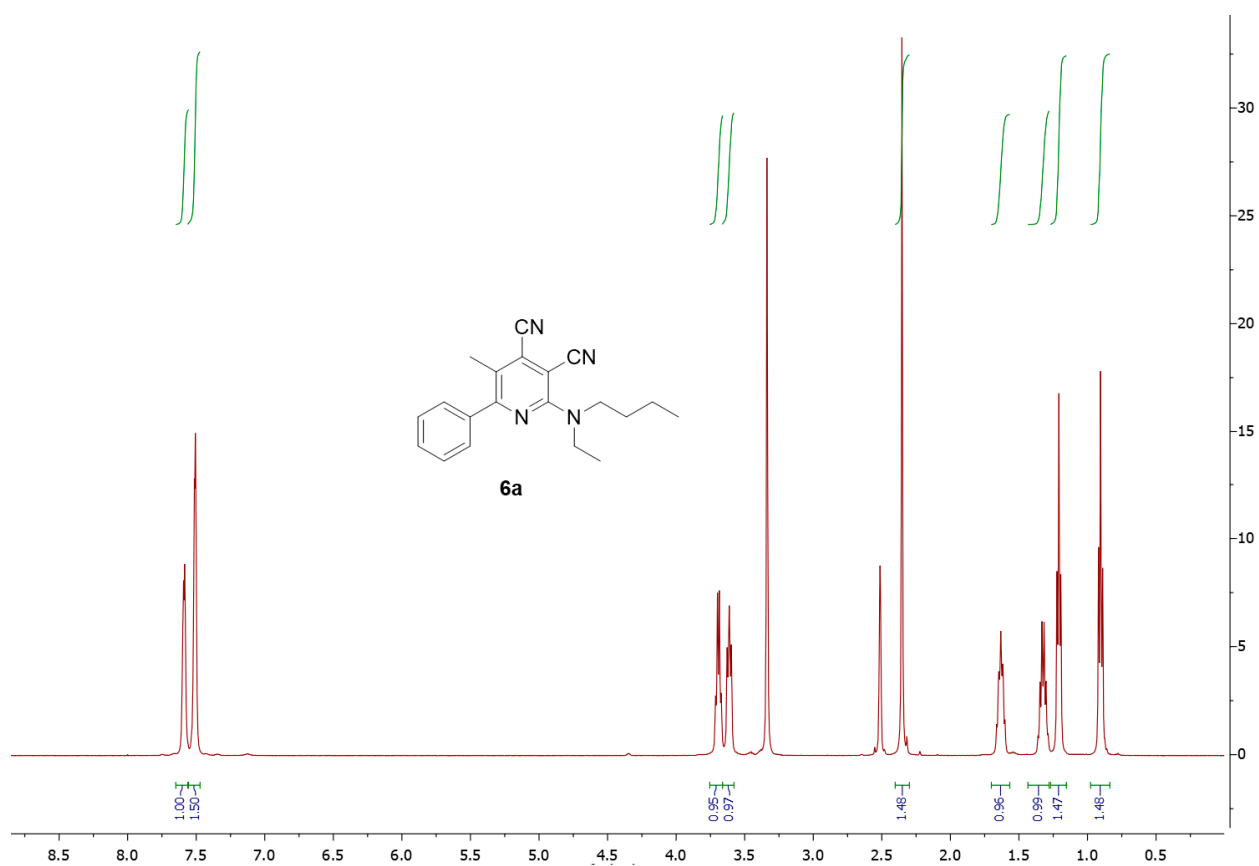


Figure S40. <sup>13</sup>C NMR-spectrum of **5b** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)



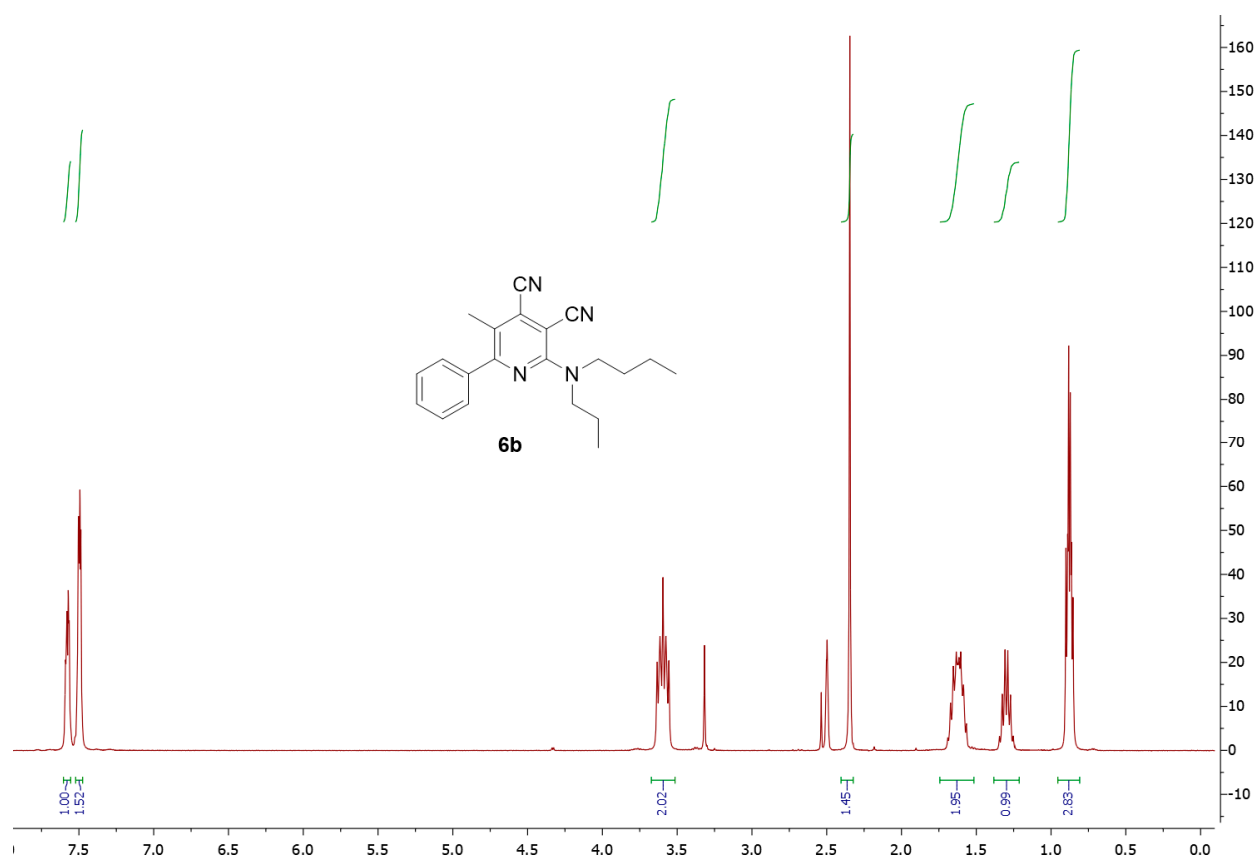


Figure S43. <sup>1</sup>H NMR-spectrum of **6b** (500.13 MHz, DMSO-d<sub>6</sub>, 298K)

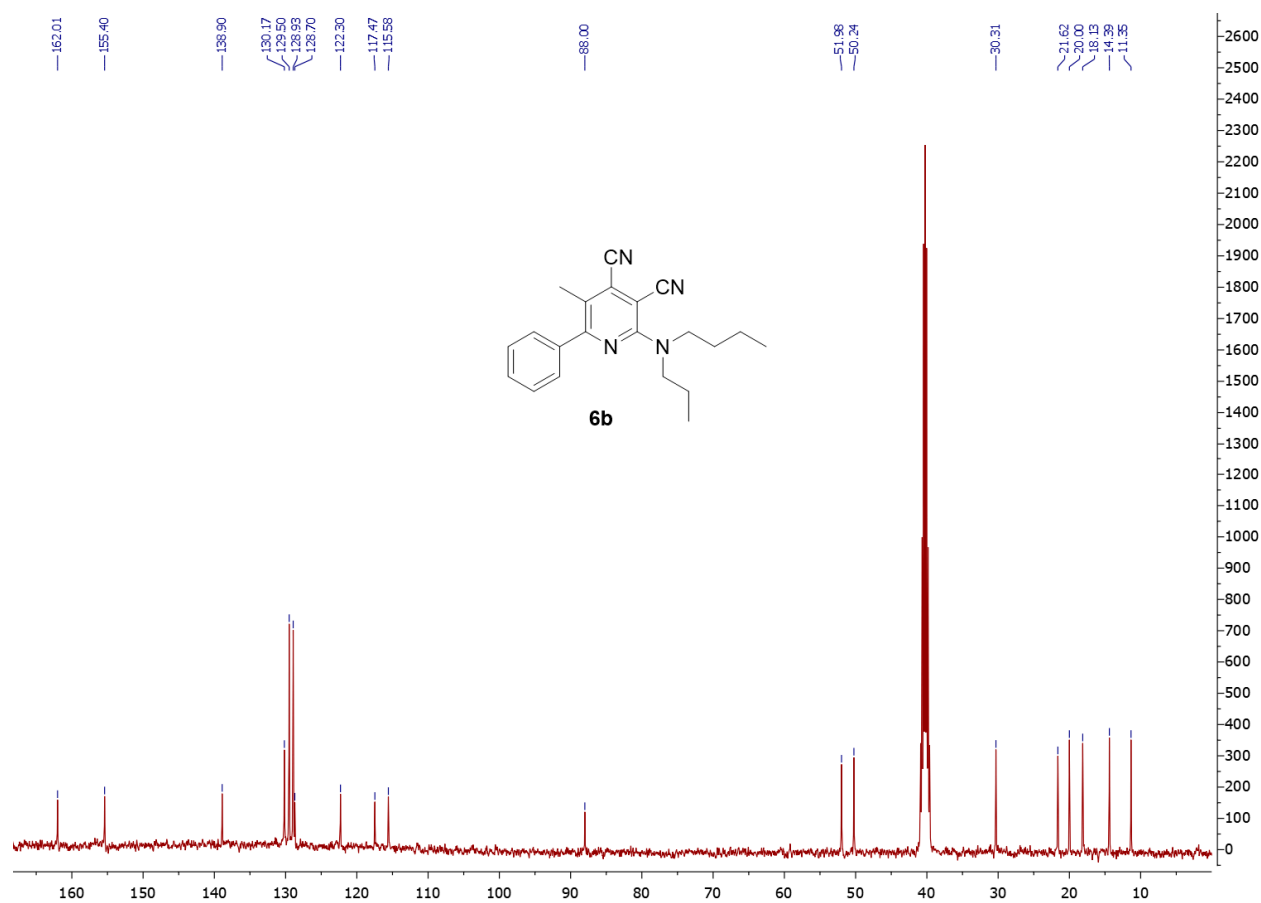


Figure S44. <sup>13</sup>C NMR-spectrum of **6b** (125.76 MHz, DMSO-d<sub>6</sub>, 299K)