

Synthesis, characterization and chemistry of tetrakis(propargylisocyanide) copper(I) complex

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Supplementary Materials

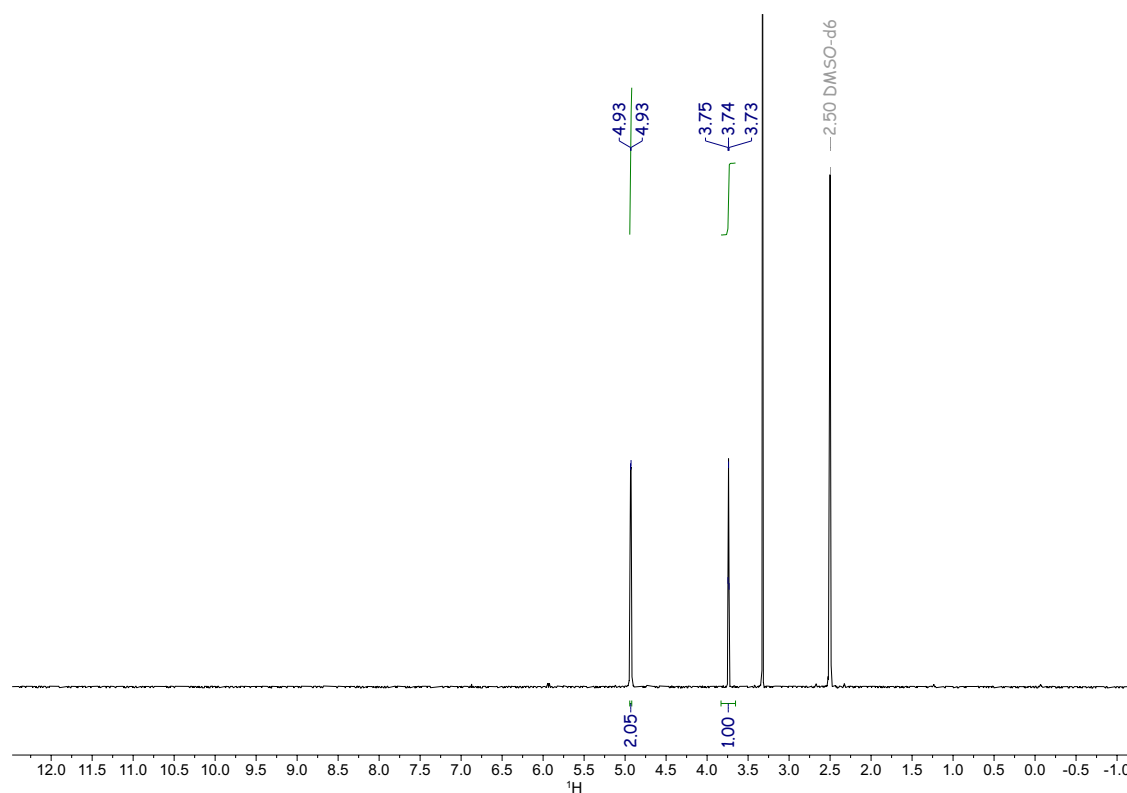


Figure S1. ^1H (400 MHz, DMSO- d_6) NMR spectrum of tetrakis(propargylisocyanide)copper(I) hexafluorophosphate **2** recorded at 23 °C.

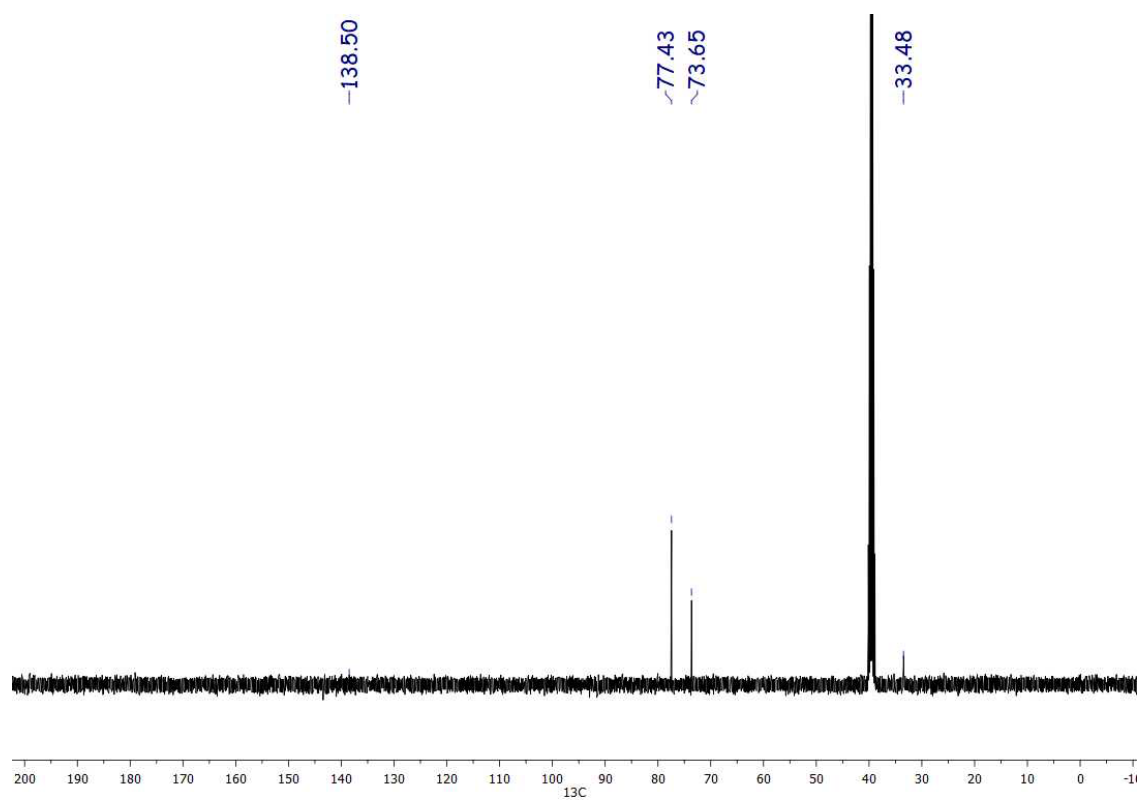


Figure S2. $^{13}\text{C}\{^1\text{H}\}$ (100 MHz, DMSO- d_6) NMR spectrum of tetrakis(propargylisocyanide)copper(I) hexafluorophosphate **2** recorded at 23 °C.

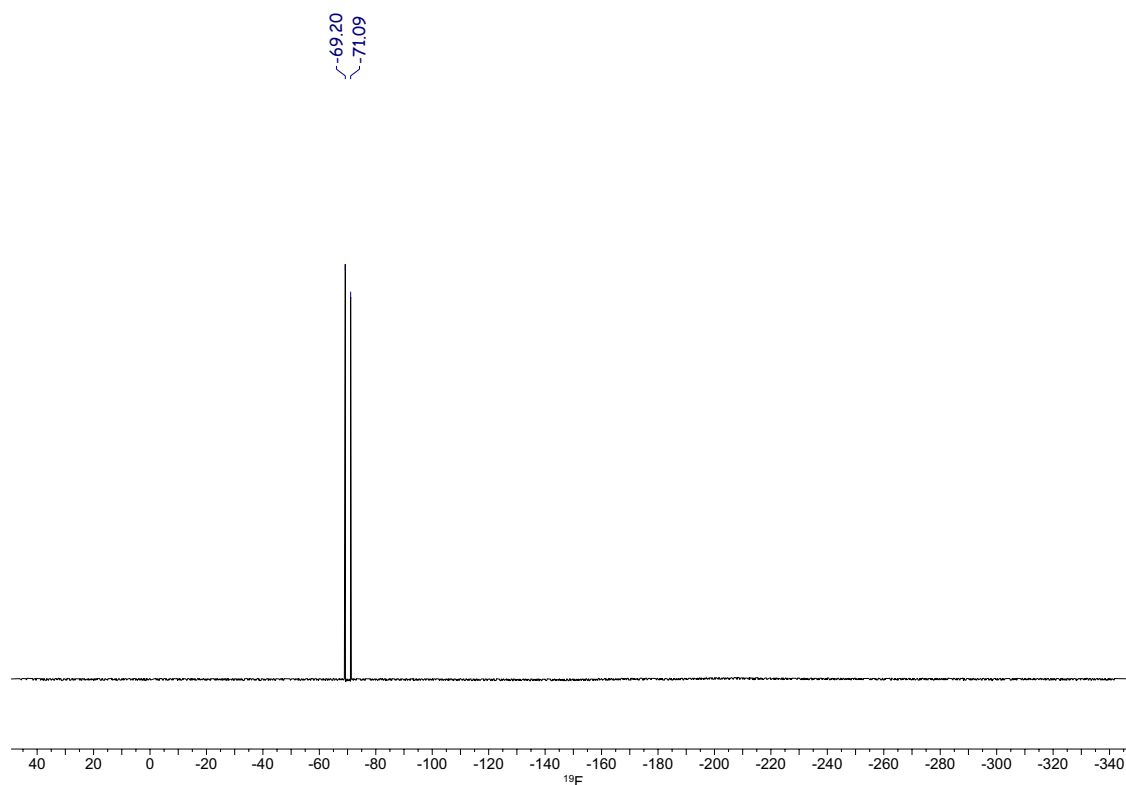


Figure S3. ^{19}F (376 MHz, DMSO- d_6) NMR spectrum of tetrakis(propargylisocyanide)copper(I) hexafluorophosphate **2** recorded at 23 °C.

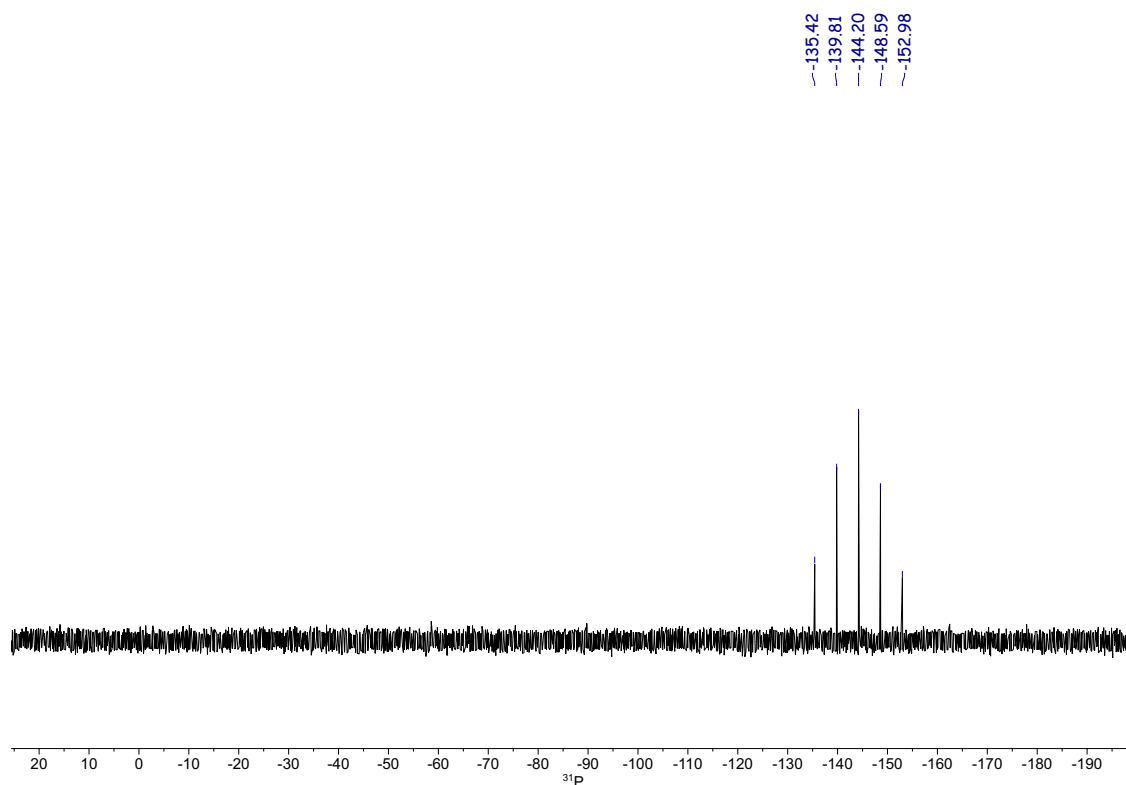


Figure S4. ^{31}P (162 MHz, DMSO- d_6) NMR spectrum of tetrakis(propargylisocyanide)copper(I) hexafluorophosphate **2** recorded at 23 °C.

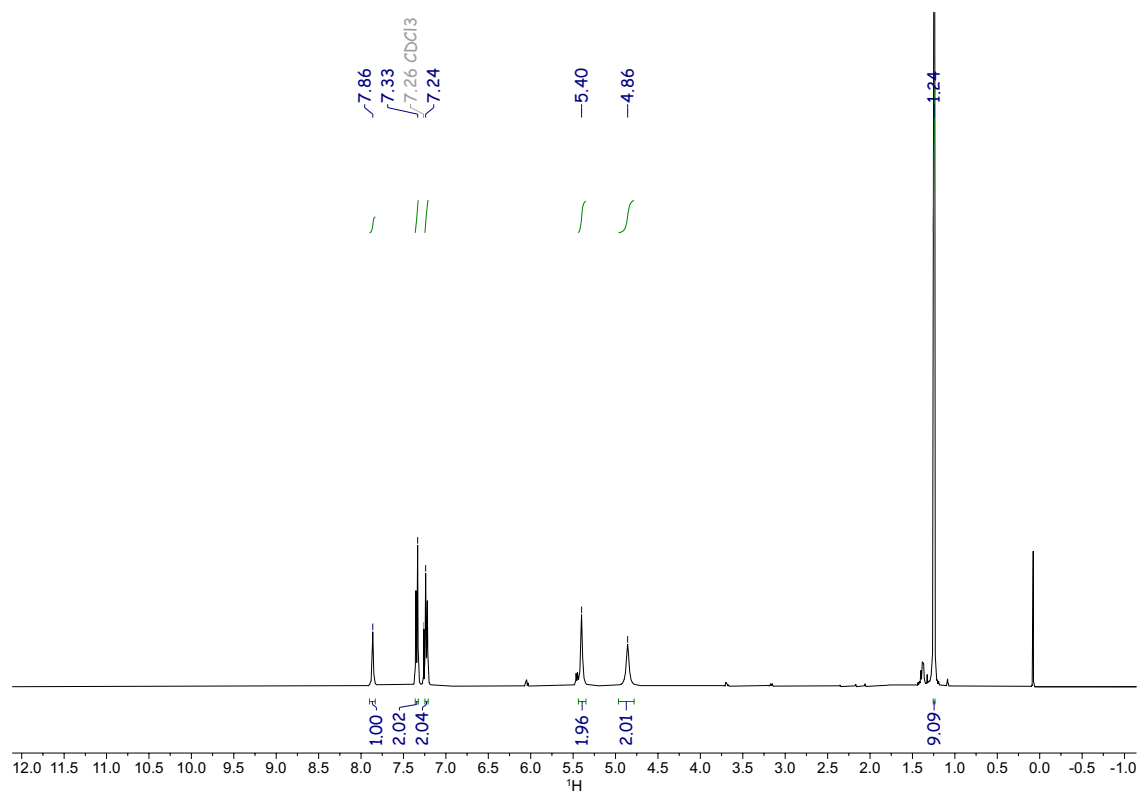


Figure S5. ^1H (400 MHz, CDCl_3) NMR spectrum of (tetrakis(1-(4-(tert-butyl)benzyl)-4-(isocyanomethyl)-1H-1,2,3-triazole)copper(I) hexafluorophosphate) **3** recorded at 23 °C.

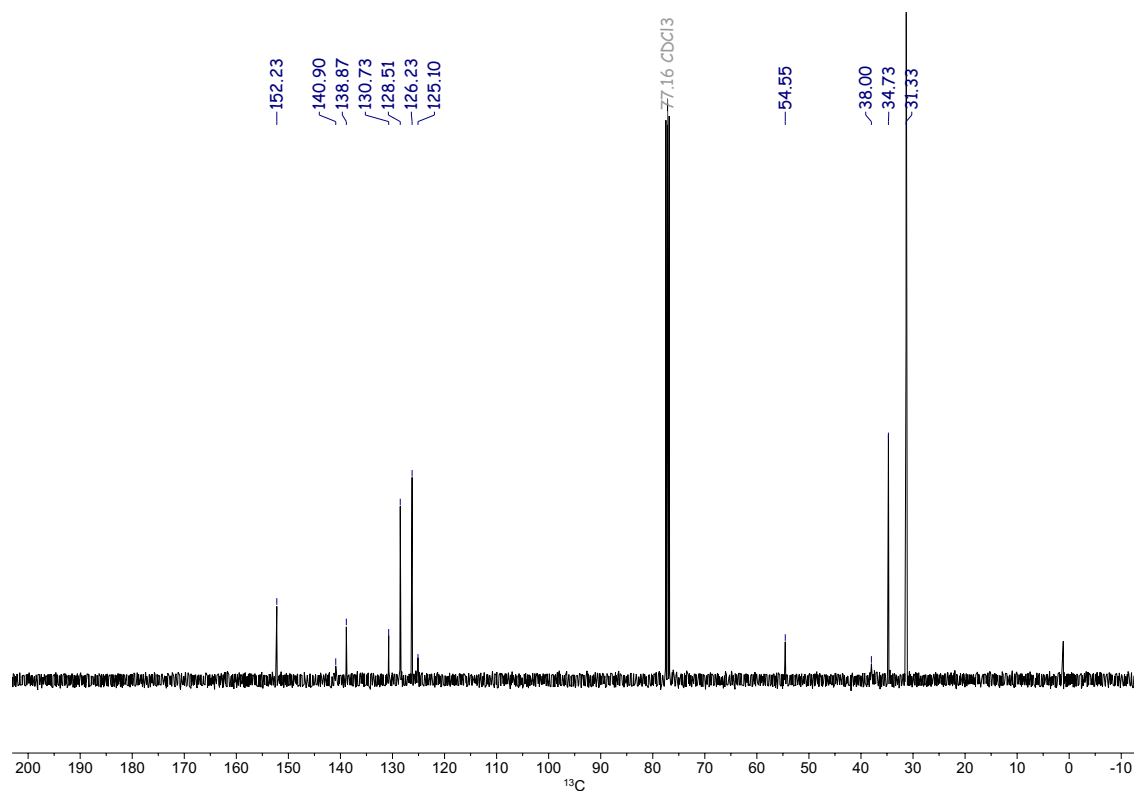


Figure S6. $^{13}\text{C}\{^1\text{H}\}$ (100 MHz, CDCl_3) NMR spectrum of (tetrakis(1-(4-(tert-butyl)benzyl)-4-(isocyanomethyl)-1H-1,2,3-triazole)copper(I) hexafluorophosphate) **3** recorded at 23 °C.

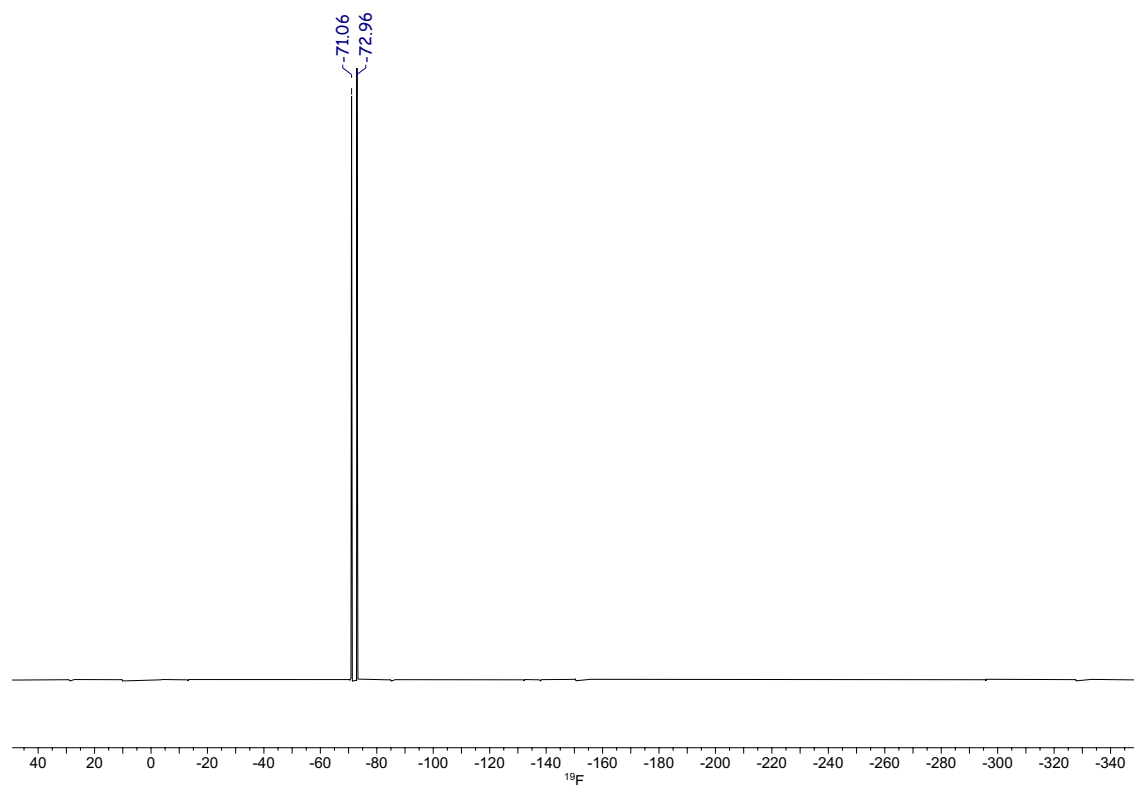


Figure S7. ^{19}F (376 MHz, CDCl_3) NMR spectrum of (tetrakis(1-(4-(tert-butyl)benzyl)-4-(isocyanomethyl)-1H-1,2,3-triazole)copper(I) hexafluorophosphate) **3** recorded at 23 °C.

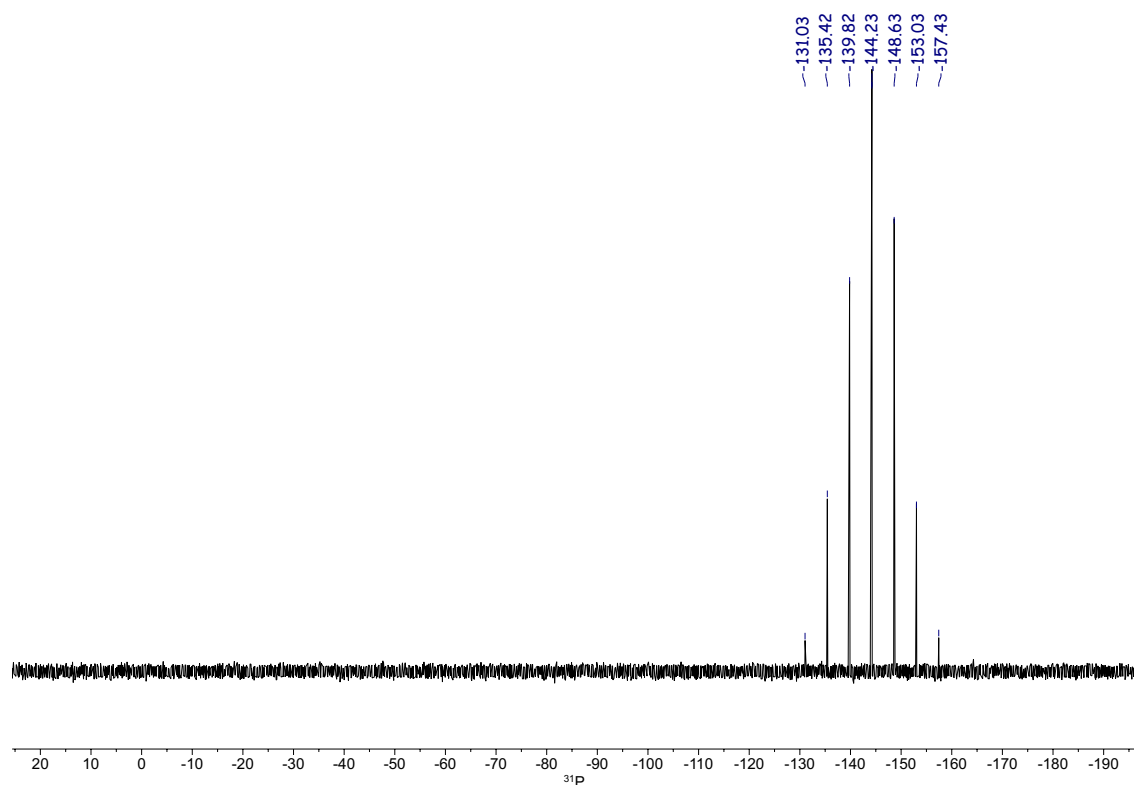


Figure S8. ^{31}P (162 MHz, CDCl_3) NMR spectrum of (tetrakis(1-(4-(tert-butyl)benzyl)-4-(isocyanomethyl)-1H-1,2,3-triazole)copper(I) hexafluorophosphate) **3** recorded at 23 °C.

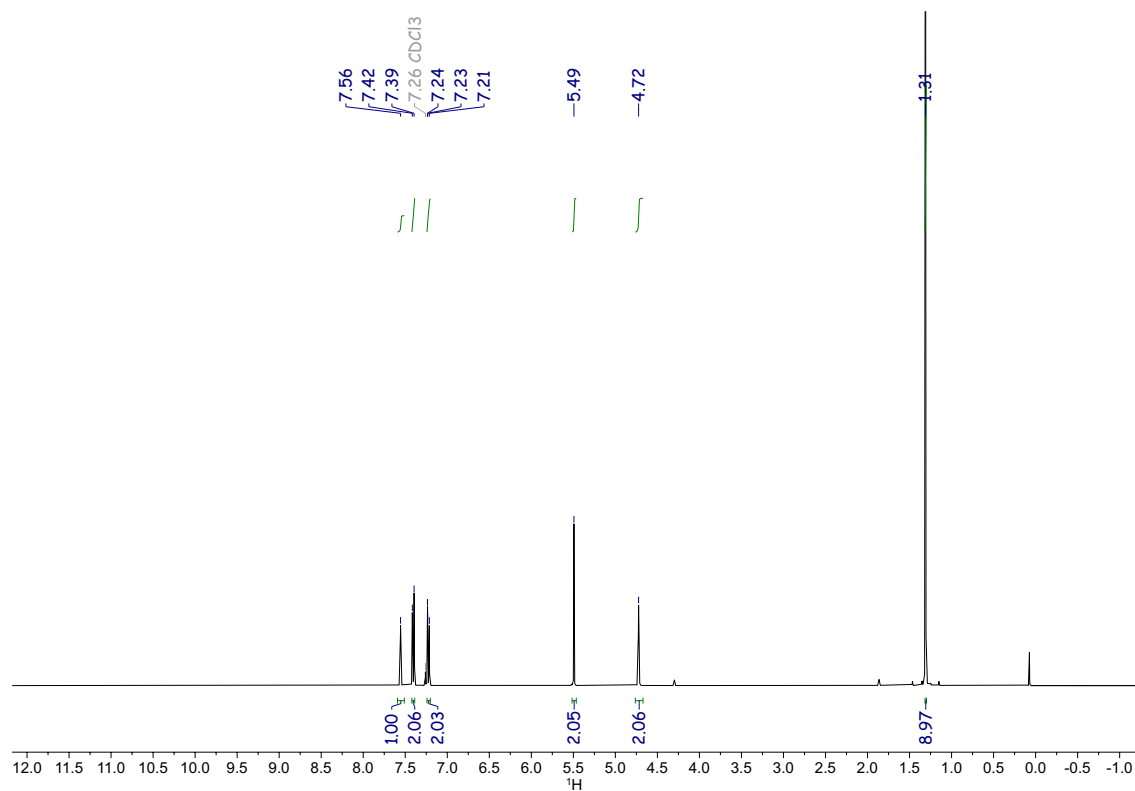


Figure S9. ^1H (400 MHz, CDCl_3) NMR spectrum of 1-(4-(tert-butyl)benzyl)-4-(isocyanomethyl)-1H-1,2,3-triazole **4** recorded at 23 °C.

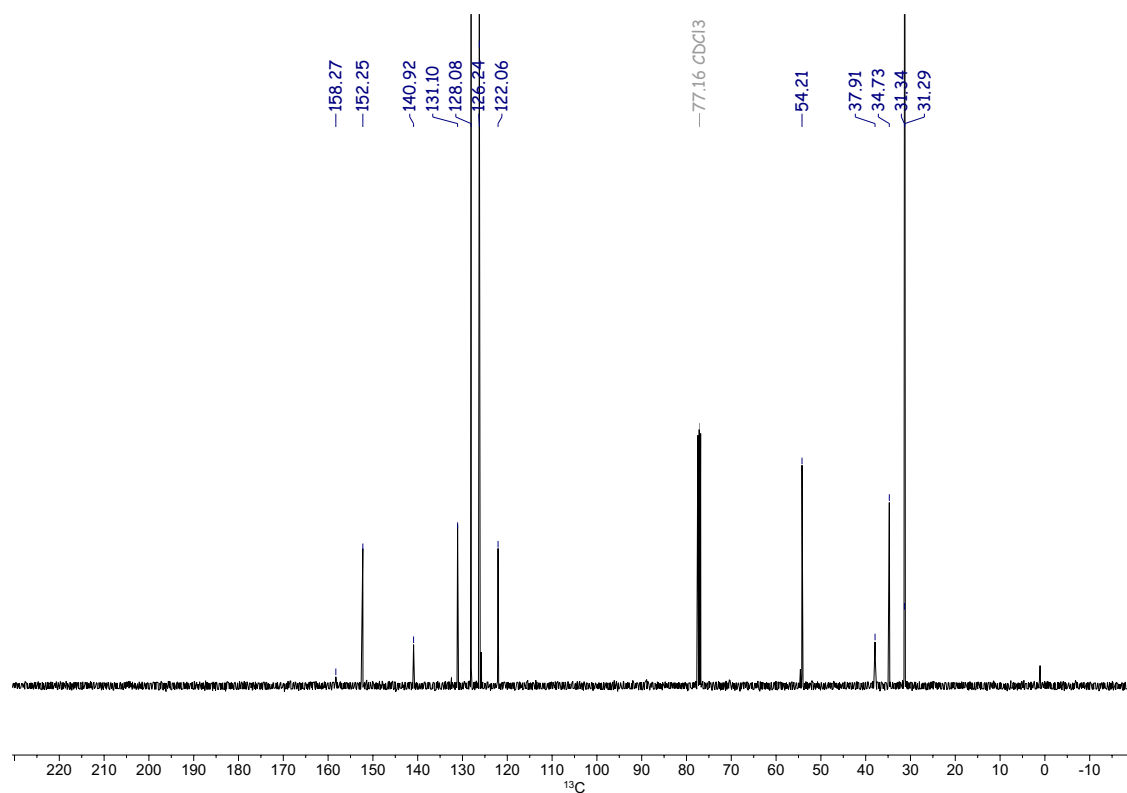


Figure S10. $^{13}\text{C}\{^1\text{H}\}$ (100 MHz, CDCl_3) NMR spectrum of 1-(4-(tert-butyl)benzyl)-4-(isocyanomethyl)-1H-1,2,3-triazole **4** recorded at 23 °C.

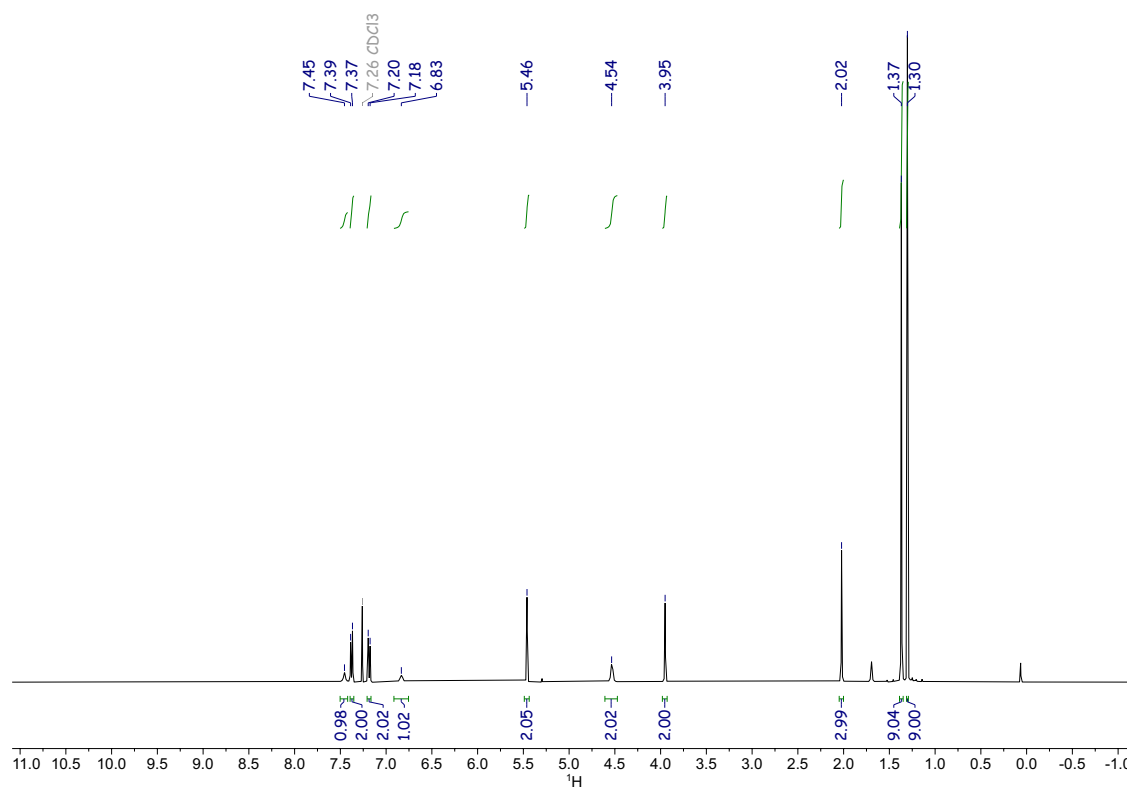


Figure S11. ^1H (400 MHz, CDCl_3) NMR spectrum of N-(tert-butyl)-N-(2-(((1-(4-(tert-butyl)benzyl)-1H-1,2,3-triazol-4-yl)methyl)amino)-2-oxoethyl)acetamide **5** recorded at 23 °C.

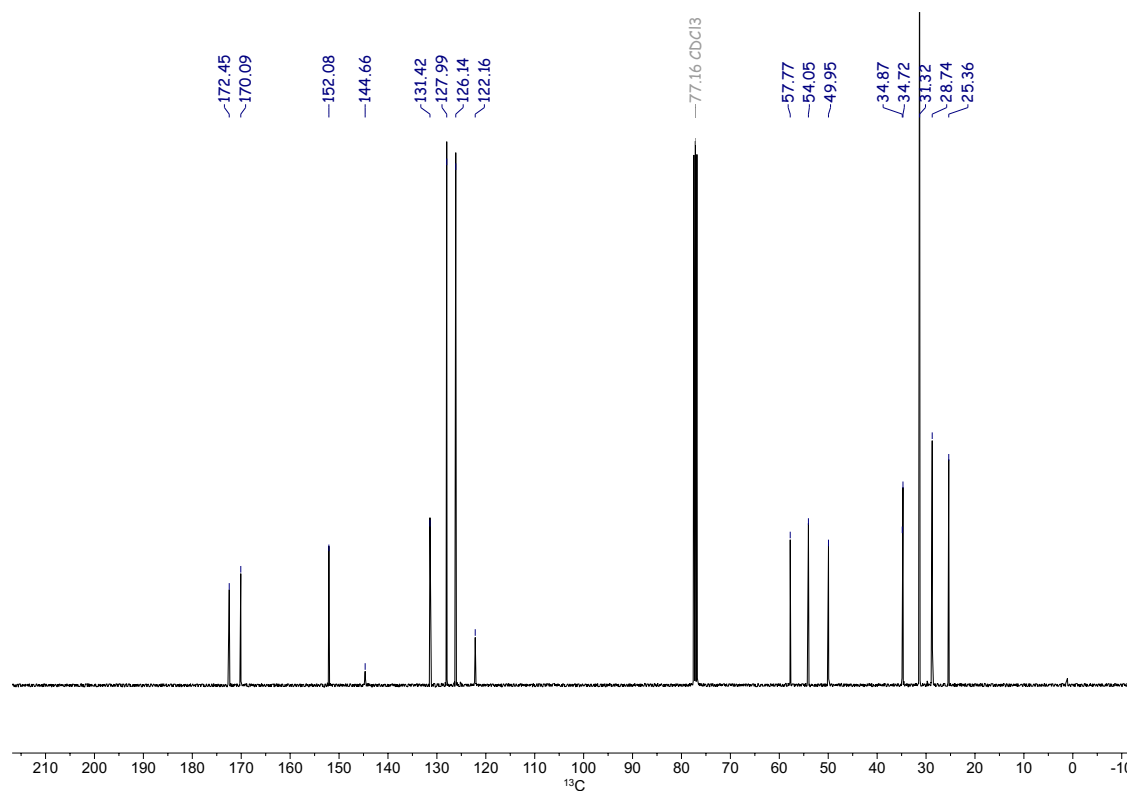


Figure S12. $^{13}\text{C}\{^1\text{H}\}$ (100 MHz, CDCl_3) NMR spectrum of N-(tert-butyl)-N-(2-(((1-(4-(tert-butyl)benzyl)-1H-1,2,3-triazol-4-yl)methyl)amino)-2-oxoethyl)acetamide 5 recorded at 23 °C.