

Supplementary Information

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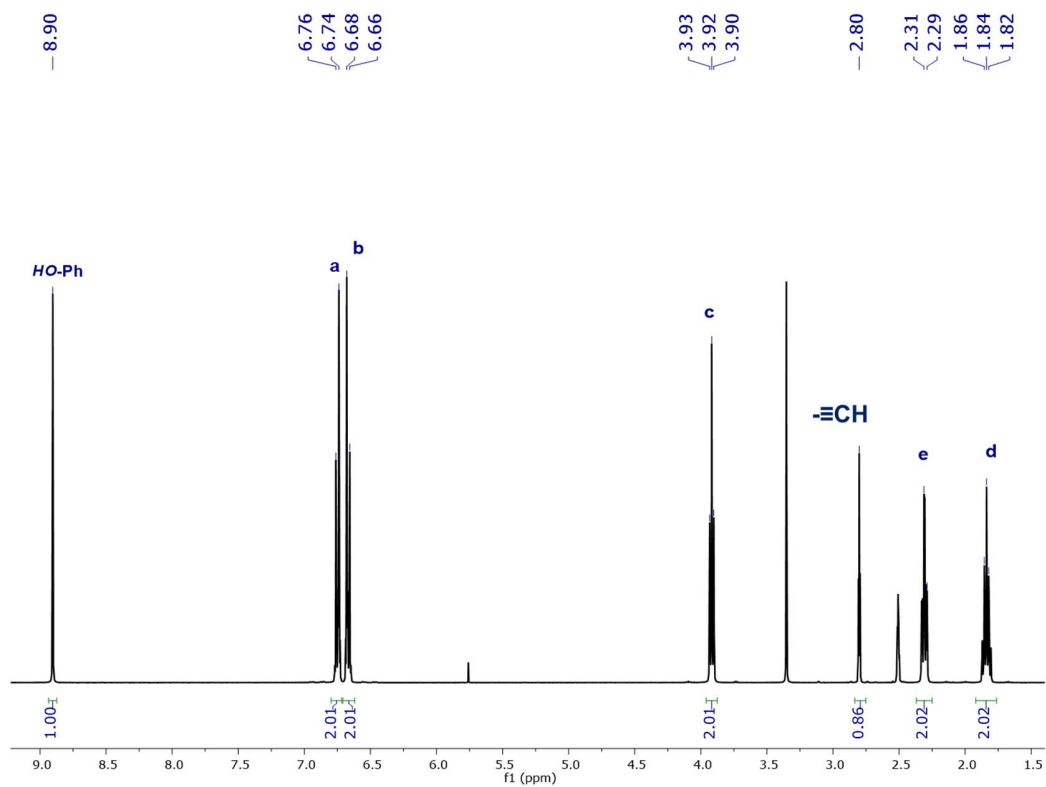


Figure S1. $^1\text{H-NMR}$ spectrum of $\text{HO-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-alkyne}$.

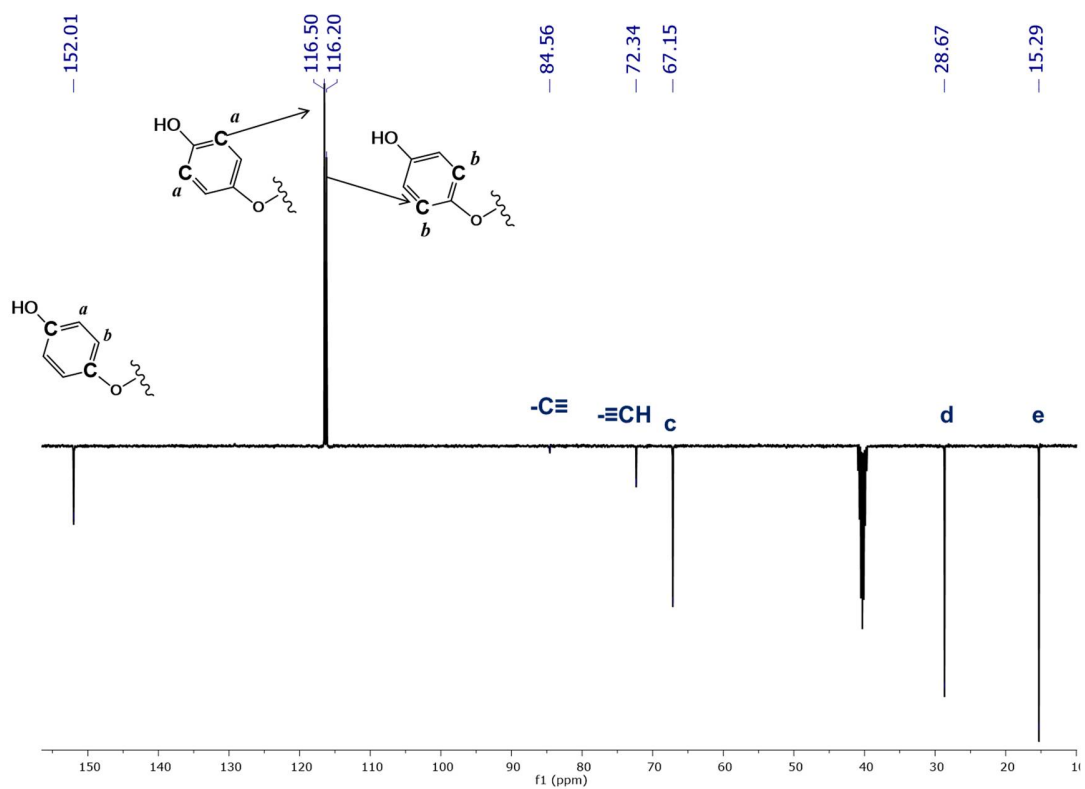


Figure S2. $^{13}\text{C-NMR}$ spectrum of $\text{HO-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-alkyne}$.

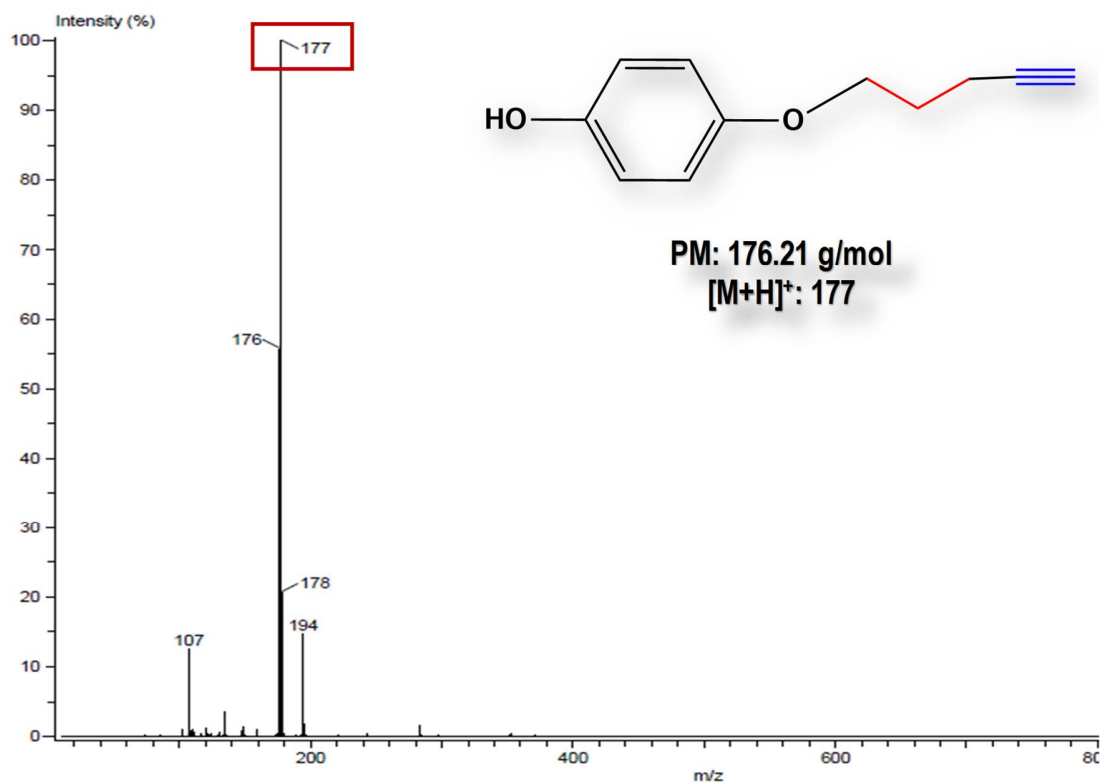


Figure S3. DART spectrum of HO-C₆H₄-O-(CH₂)₃-alkyne.

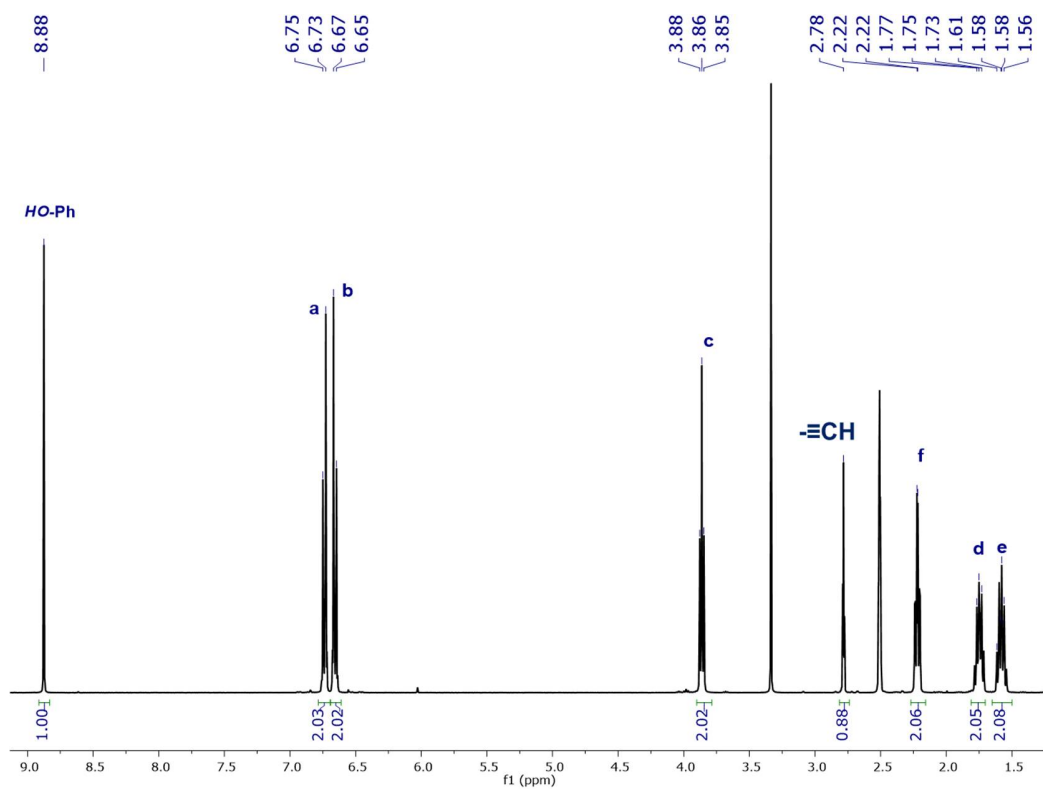


Figure S4. ¹H-NMR spectrum of HO-C₆H₄-O-(CH₂)₄-alkyne.

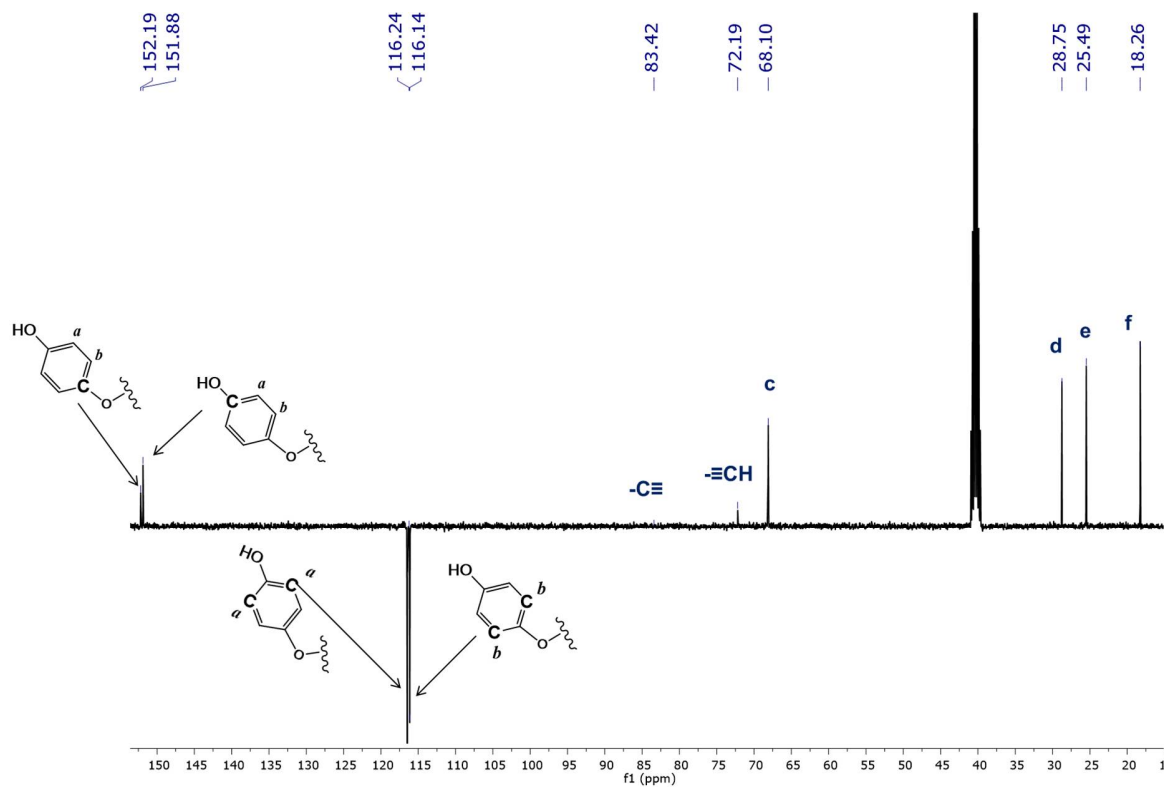


Figure S5. ^{13}C -NMR spectrum of $\text{HO-C}_6\text{H}_4\text{-O-(CH}_2)_4\text{-alkyne}$.

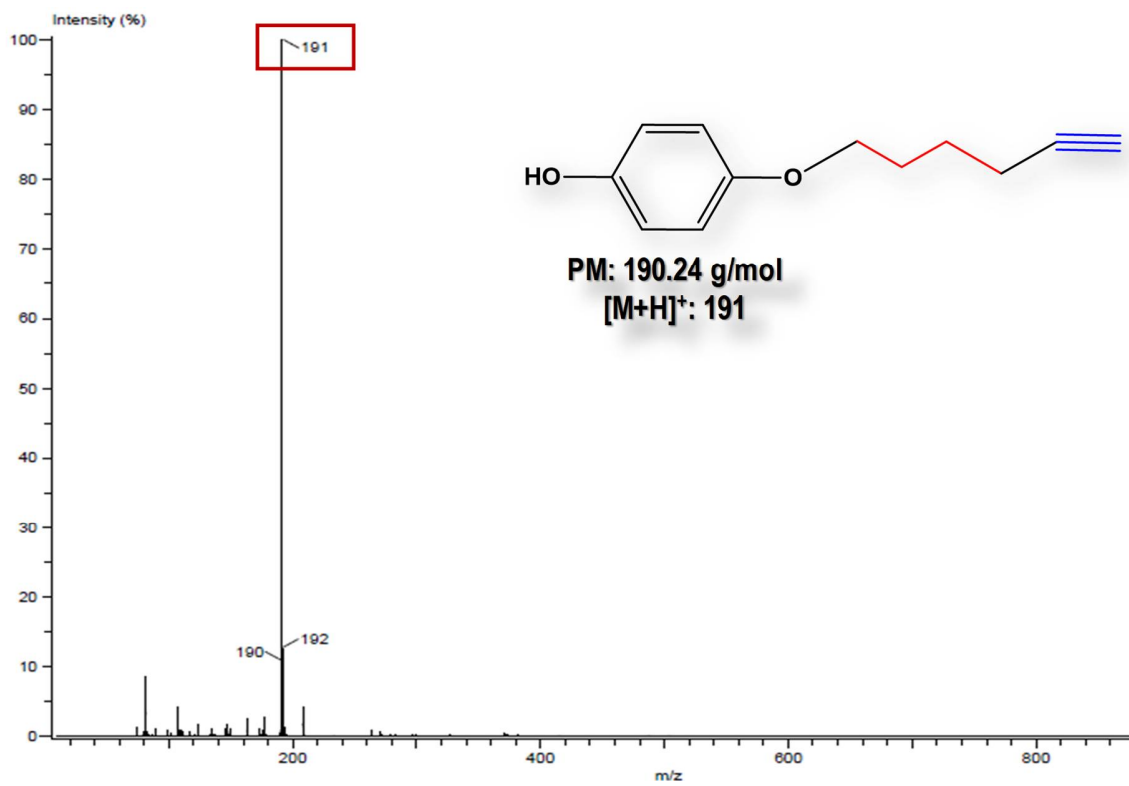


Figure S6. DART spectrum of $\text{HO-C}_6\text{H}_4\text{-O-(CH}_2)_4\text{-alkyne}$.

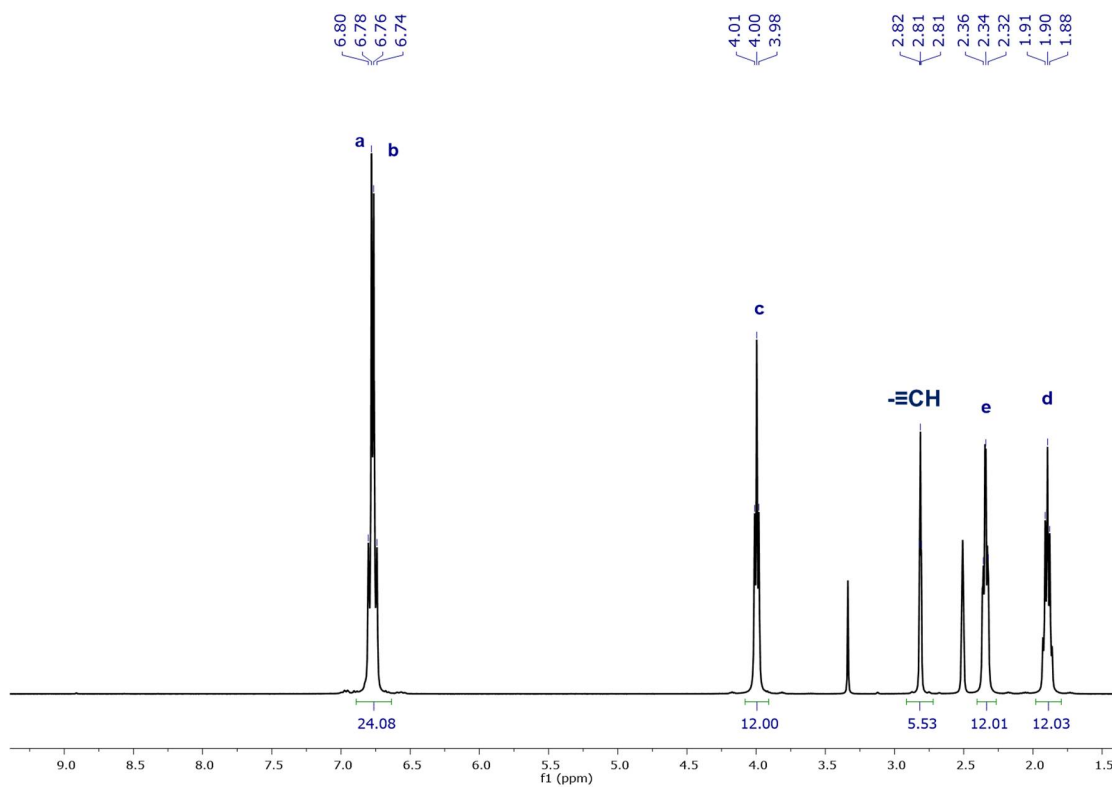


Figure S7. $^1\text{H-NMR}$ spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-alkyne]}_6$.

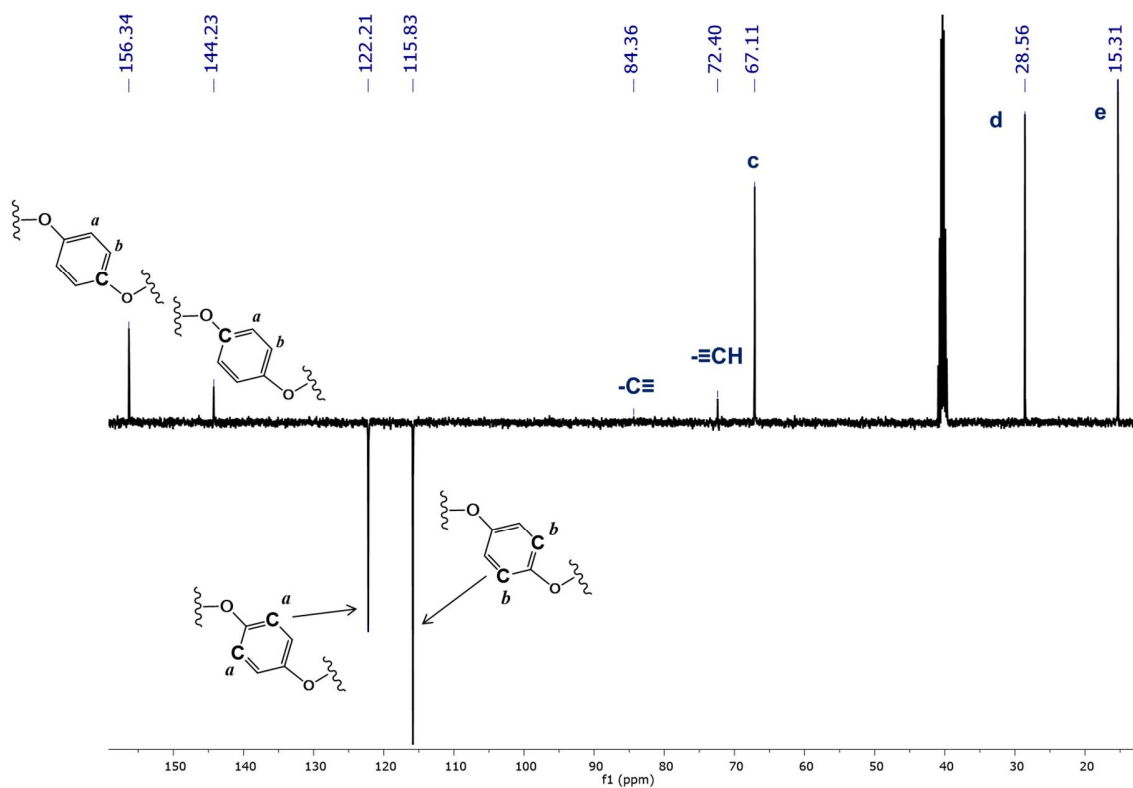


Figure S8. $^{13}\text{C-NMR}$ spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-alkyne]}_6$.

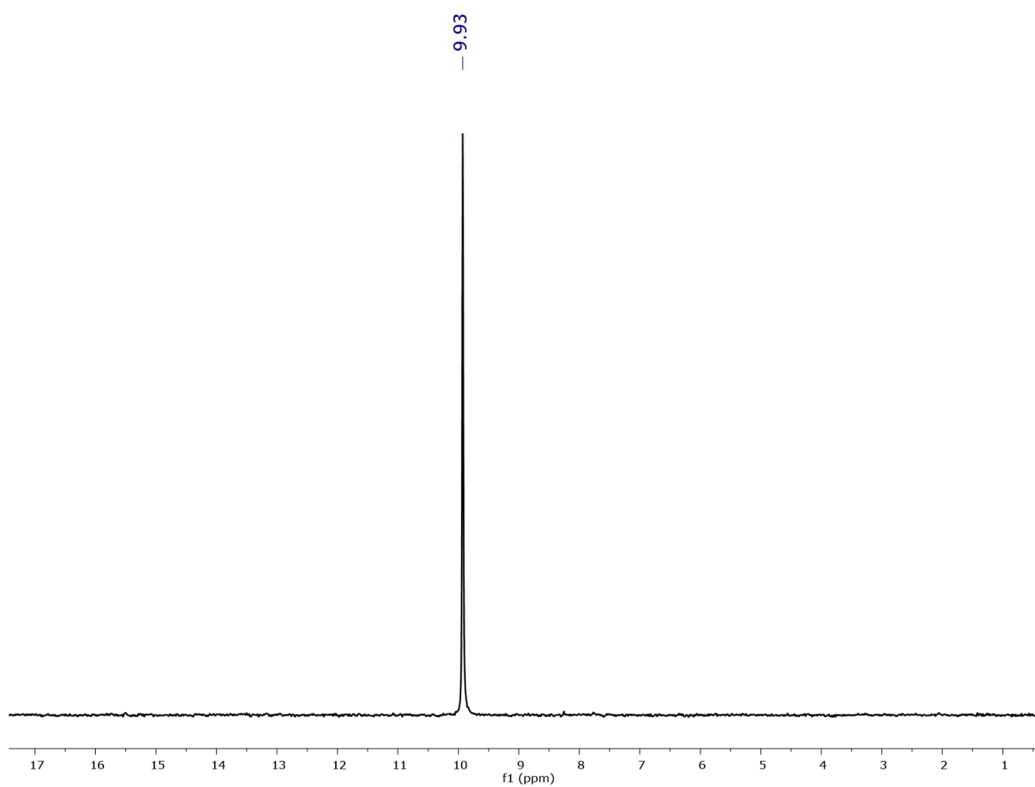


Figure S9. ^{31}P -NMR spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-alkyne]}_6$.

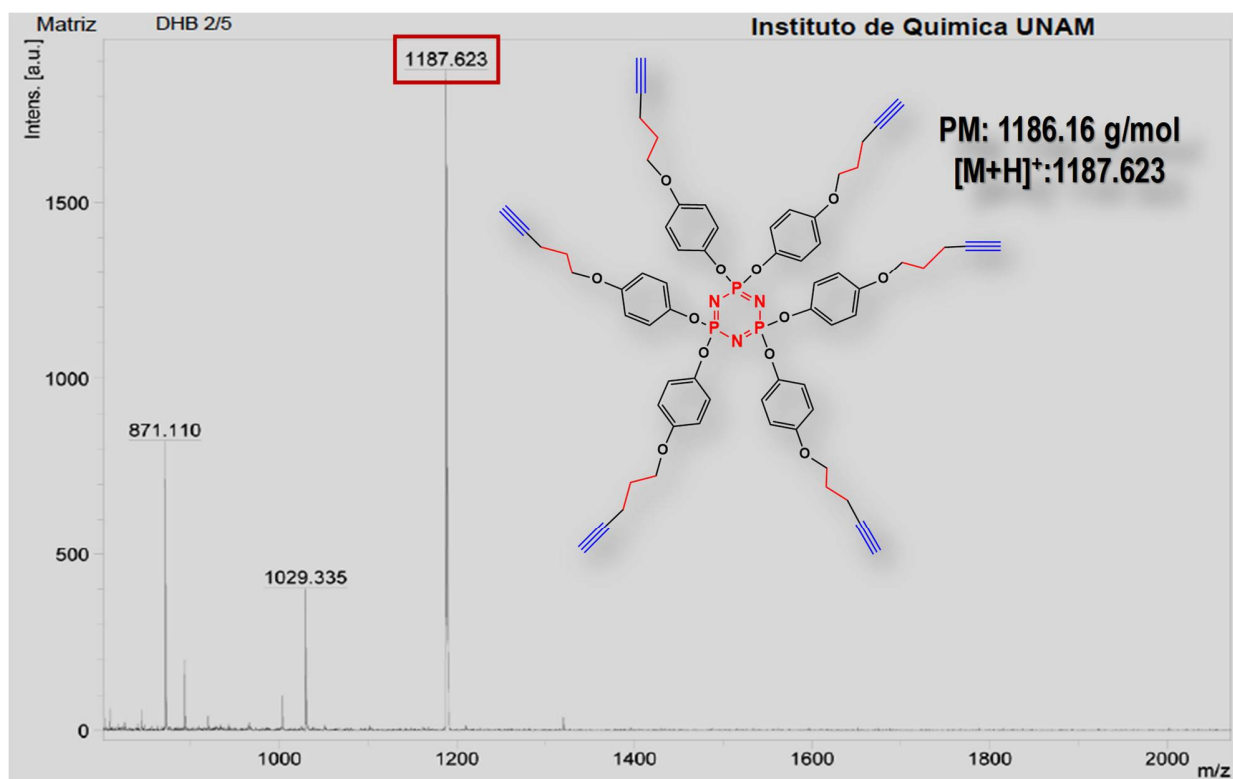


Figure S10. MALDI spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-alkyne]}_6$.

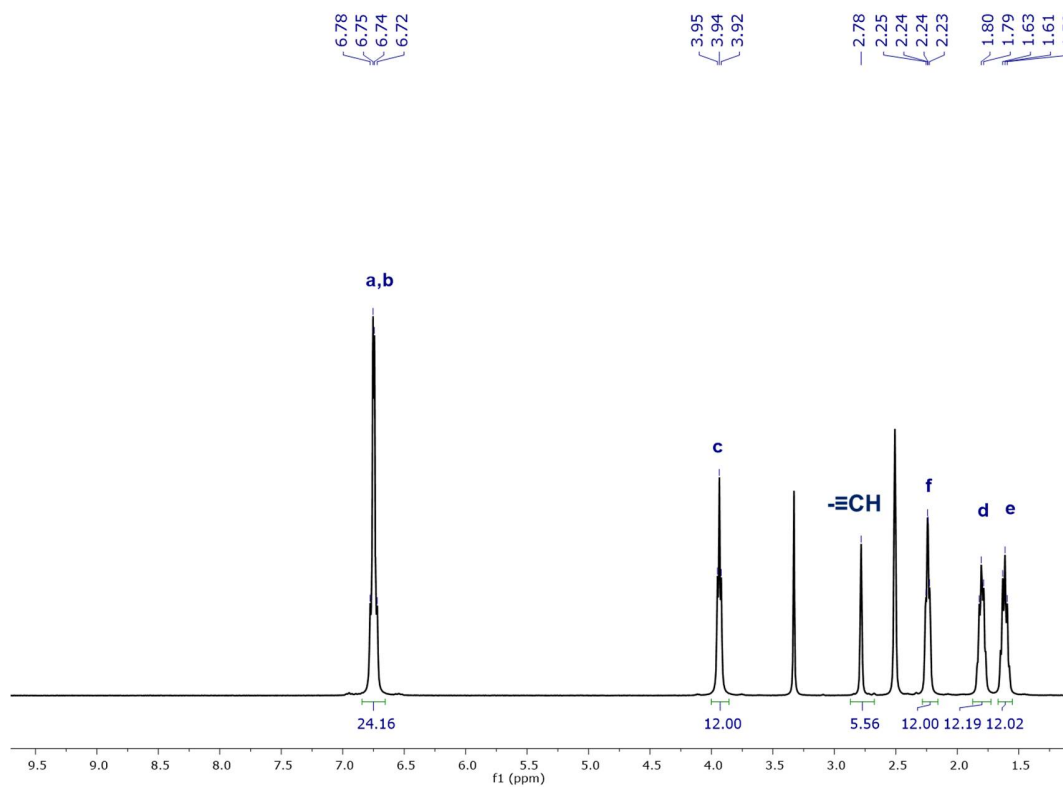


Figure S11. $^1\text{H-NMR}$ spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_4\text{-alkyne]}_6$.

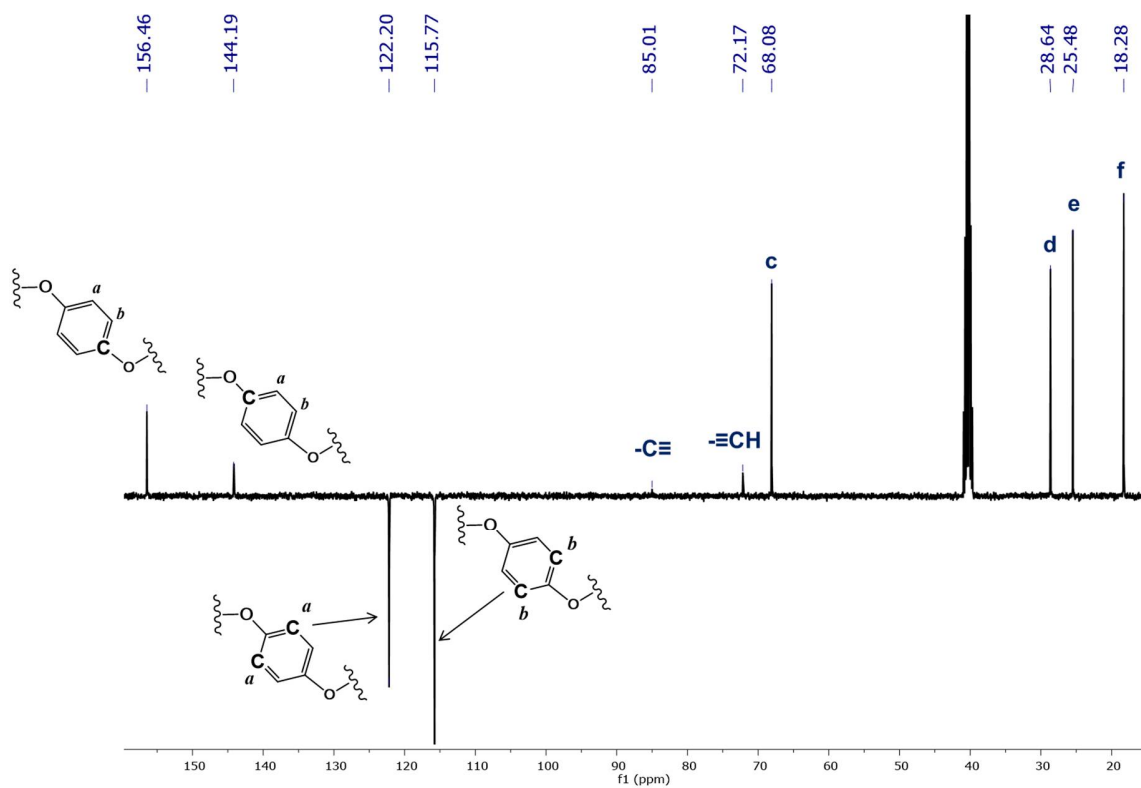


Figure S12. $^{13}\text{C-NMR}$ spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_4\text{-alkyne]}_6$.

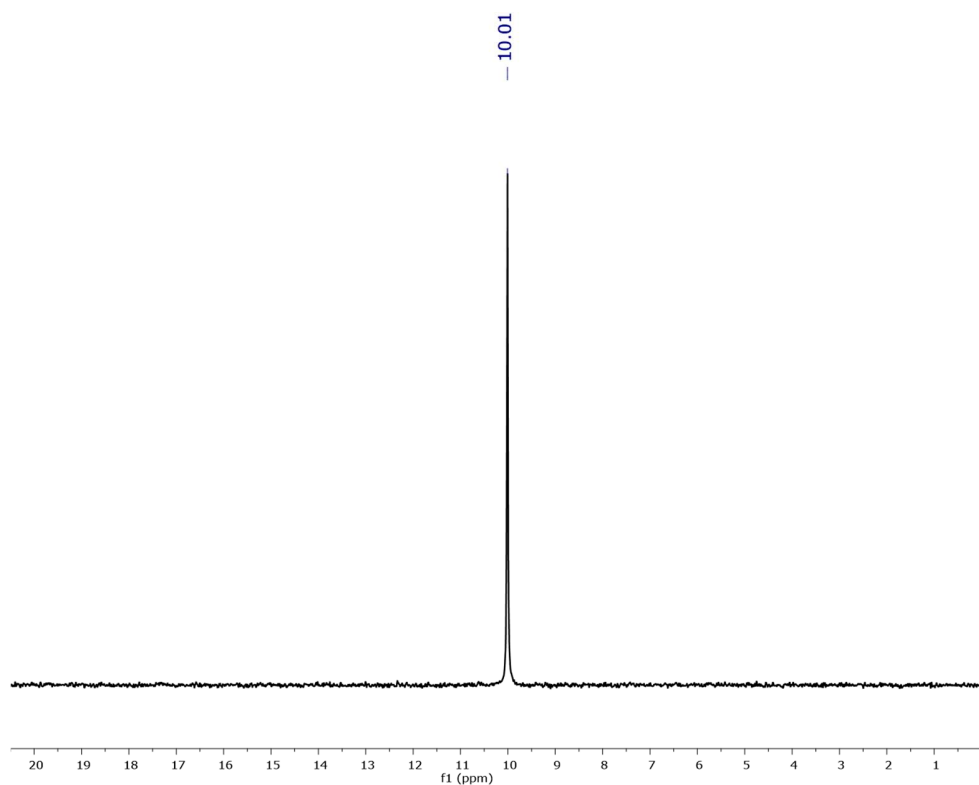


Figure S13. ^{31}P -NMR spectrum of $\text{P}_3\text{N}_3\text{-}[\text{O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_4\text{-alkyne}]_6$.

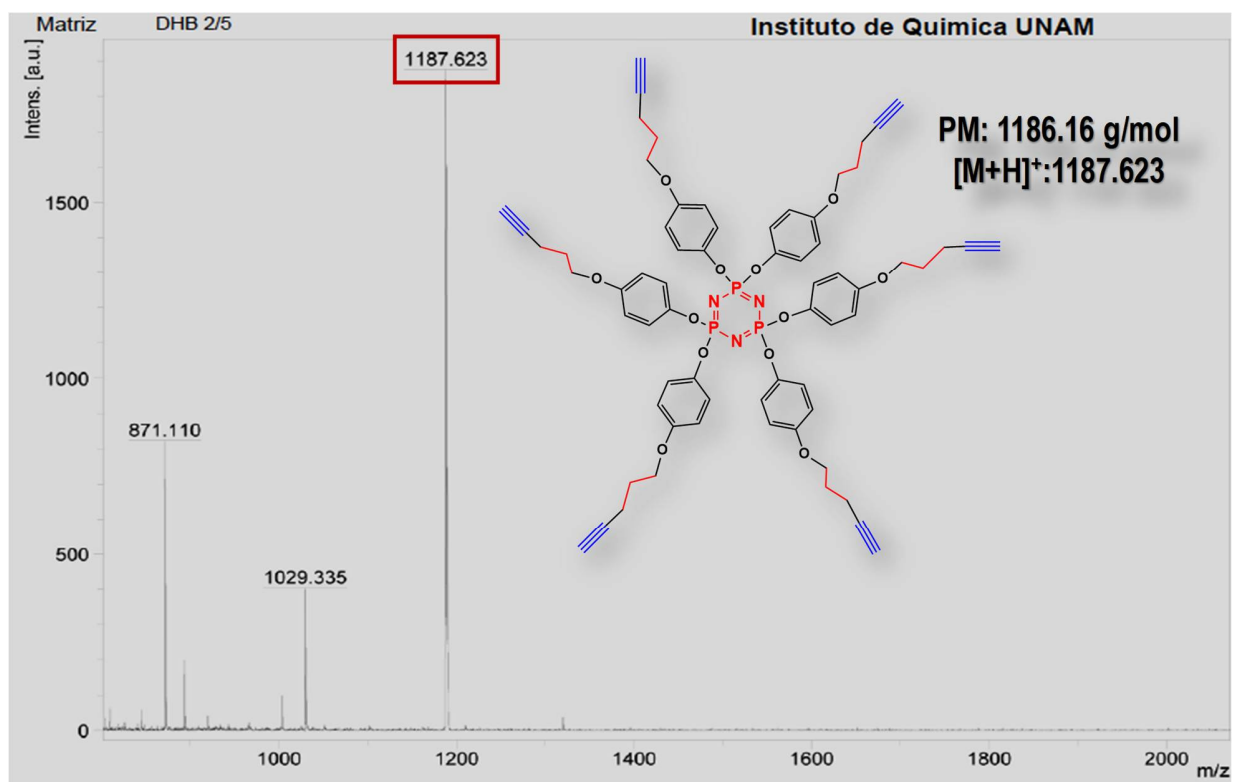


Figure S14. MALDI spectrum of $\text{P}_3\text{N}_3\text{-}[\text{O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_4\text{-alkyne}]_6$.

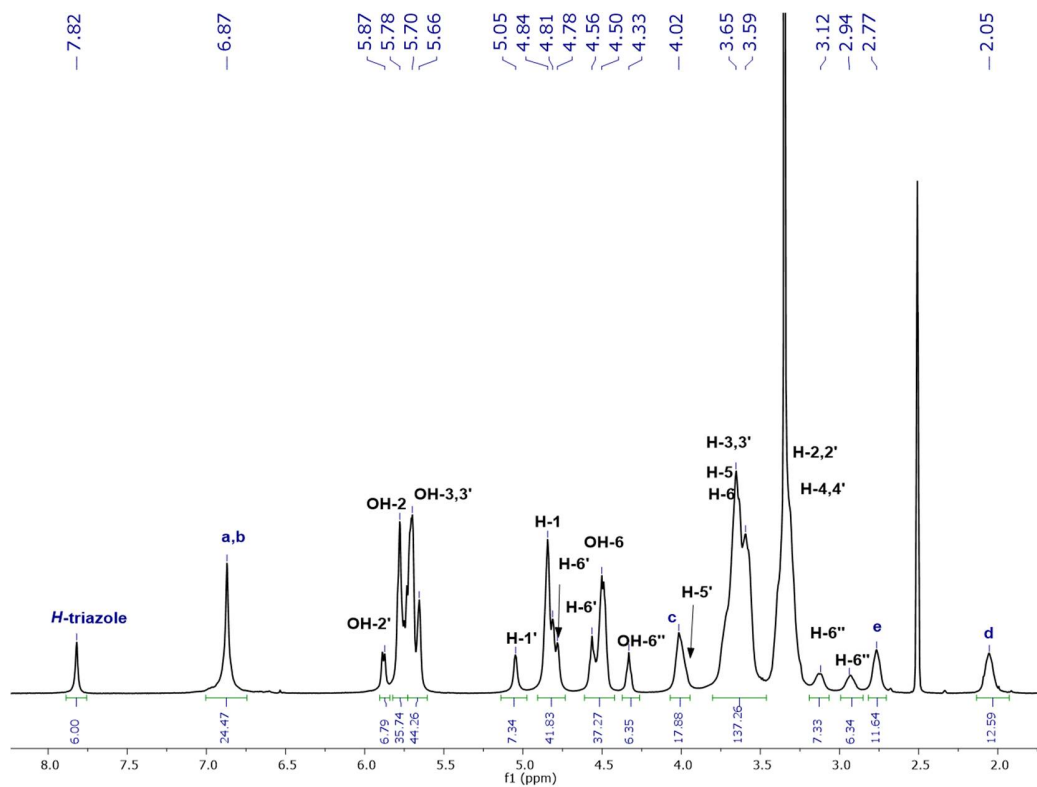


Figure S15. ^1H -NMR spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-}\beta\text{CD]}_6$.

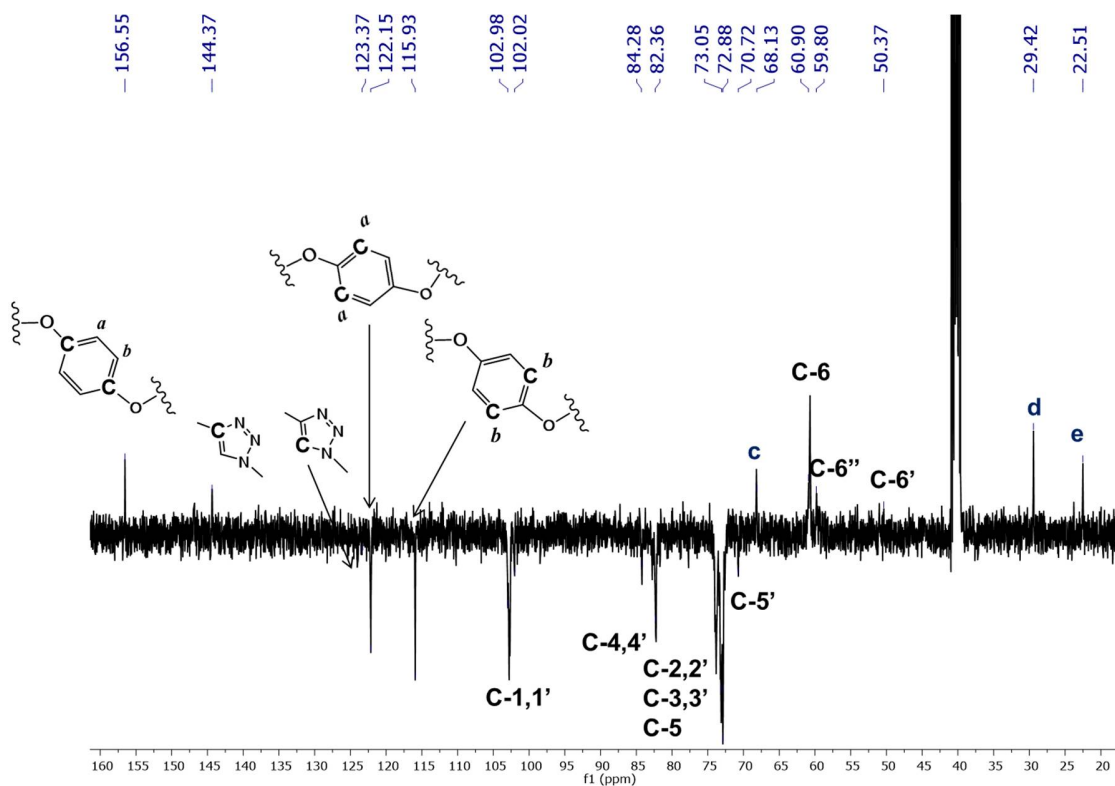


Figure S16. ^{13}C -NMR spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_3\text{-}\beta\text{CD]}_6$.

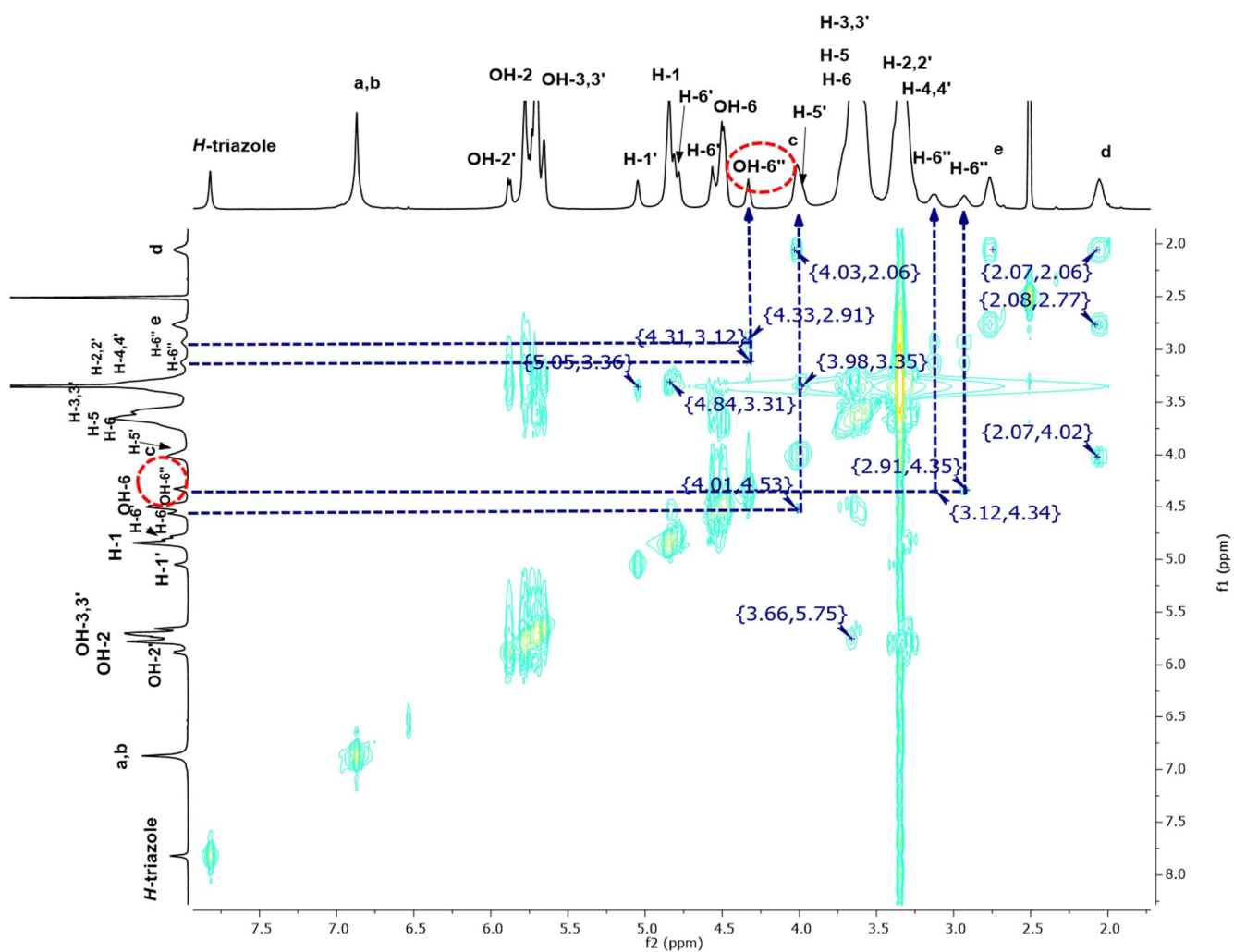


Figure S17. 2D NMR COSY spectrum of P_3N_3 -[O-C₆H₄-O-(CH₂)₃-βCD]₆.

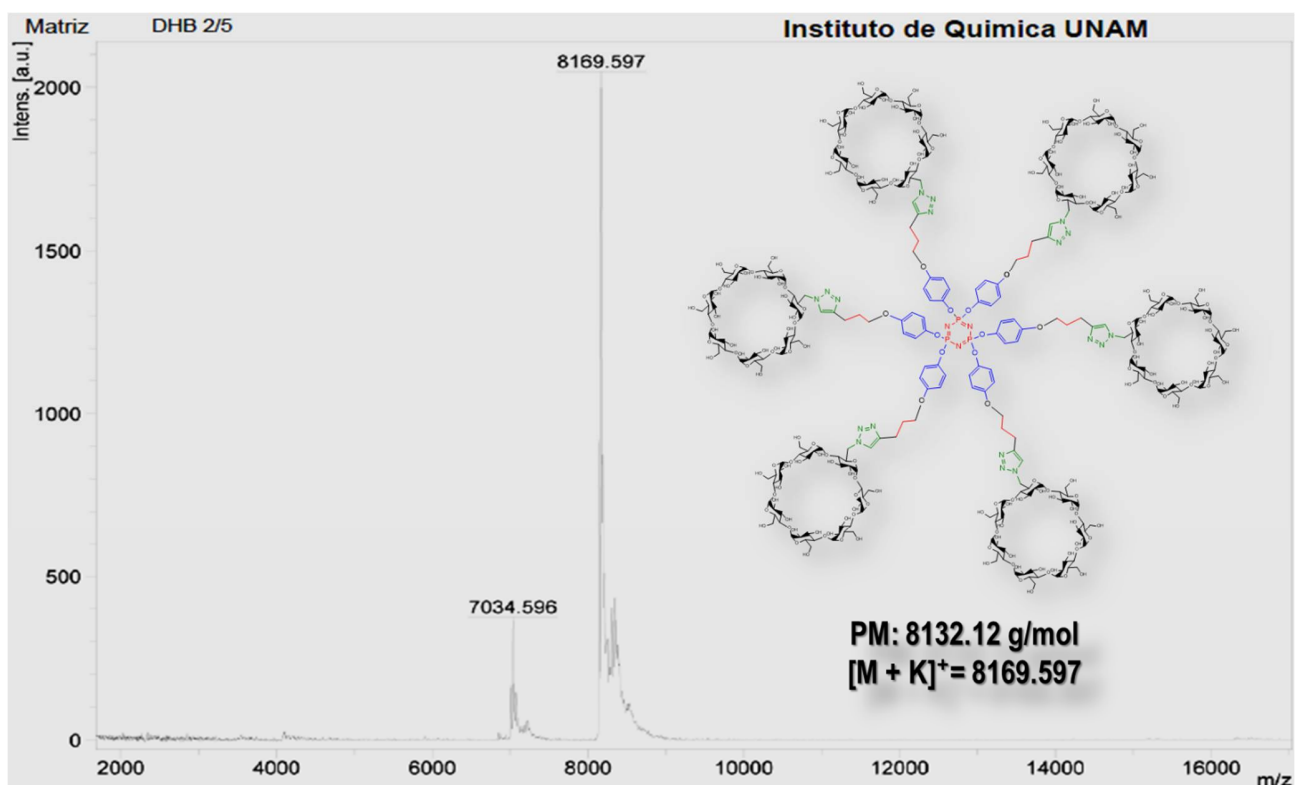


Figure S18. MALDI spectrum of P_3N_3 -[O-C₆H₄-O-(CH₂)₃-βCD]₆.

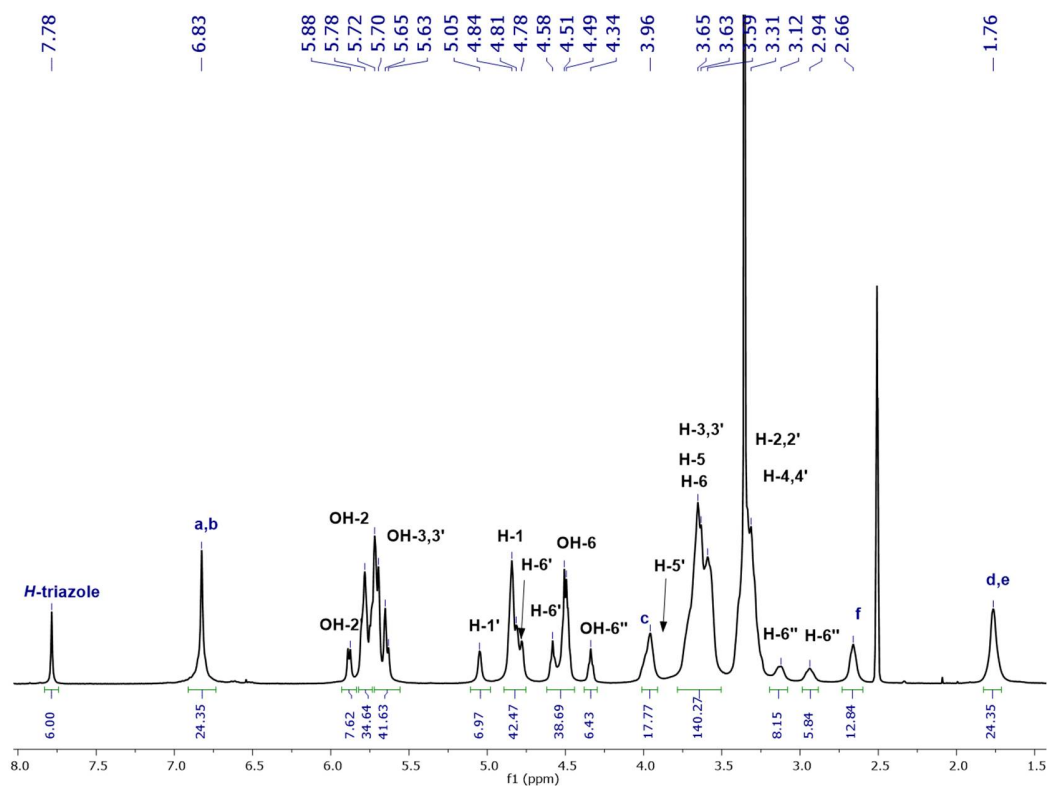


Figure S19. ¹H-NMR spectrum of P_3N_3 -[O-C₆H₄-O-(CH₂)₄-βCD]₆.

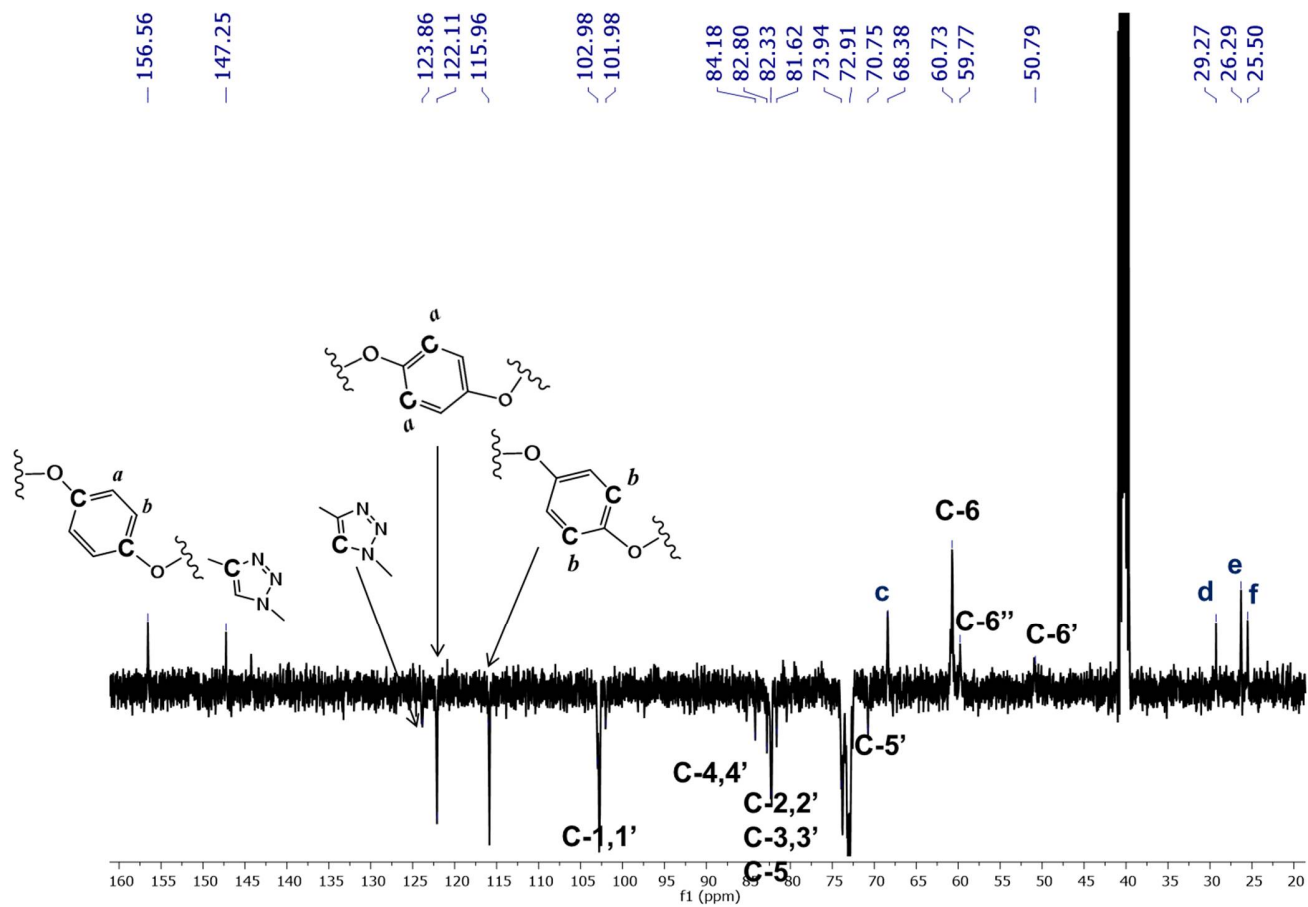


Figure S20. ^{13}C -NMR spectrum of $\text{P}_3\text{N}_3\text{-}[\text{O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_4\text{-}\beta\text{CD}]_6$.

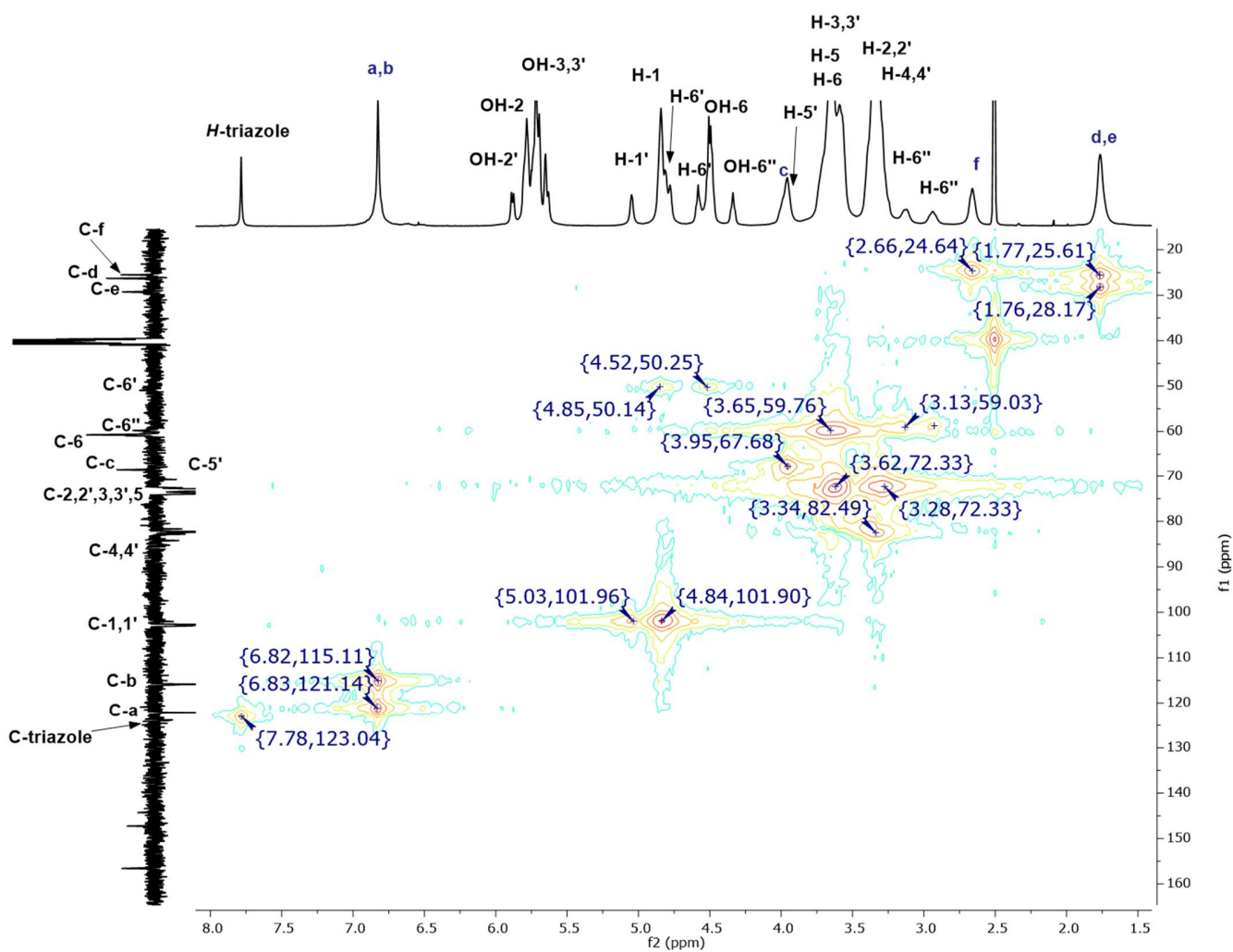


Figure S21. 2D NMR HMQC spectrum of $\text{P}_3\text{N}_3\text{-[O-C}_6\text{H}_4\text{-O-(CH}_2\text{)}_4\text{-}\beta\text{CD]}_6$.

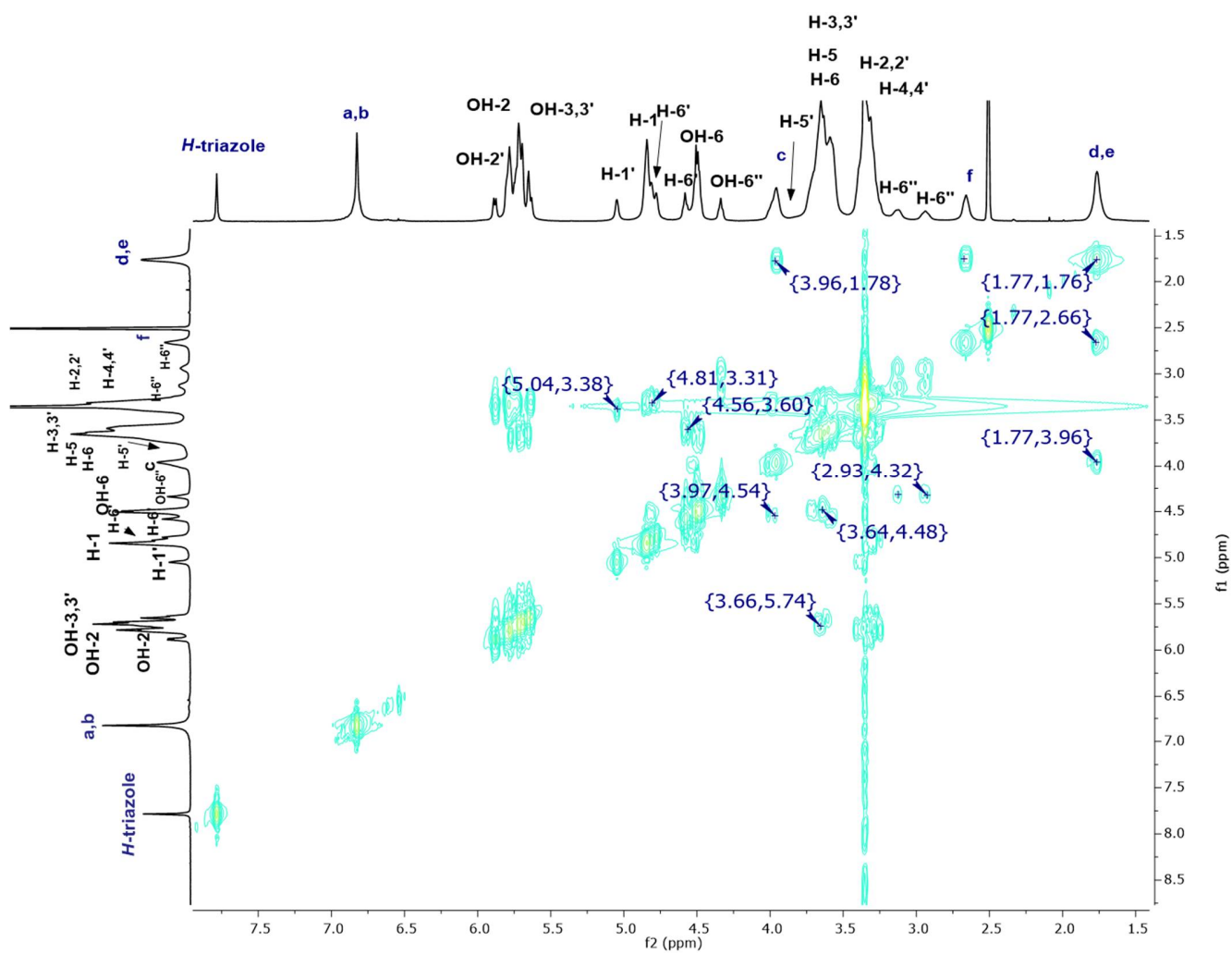


Figure S22. 2D NMR COSY spectrum of P_3N_3 -[O-C₆H₄-O-(CH₂)₄-βCD]₆.

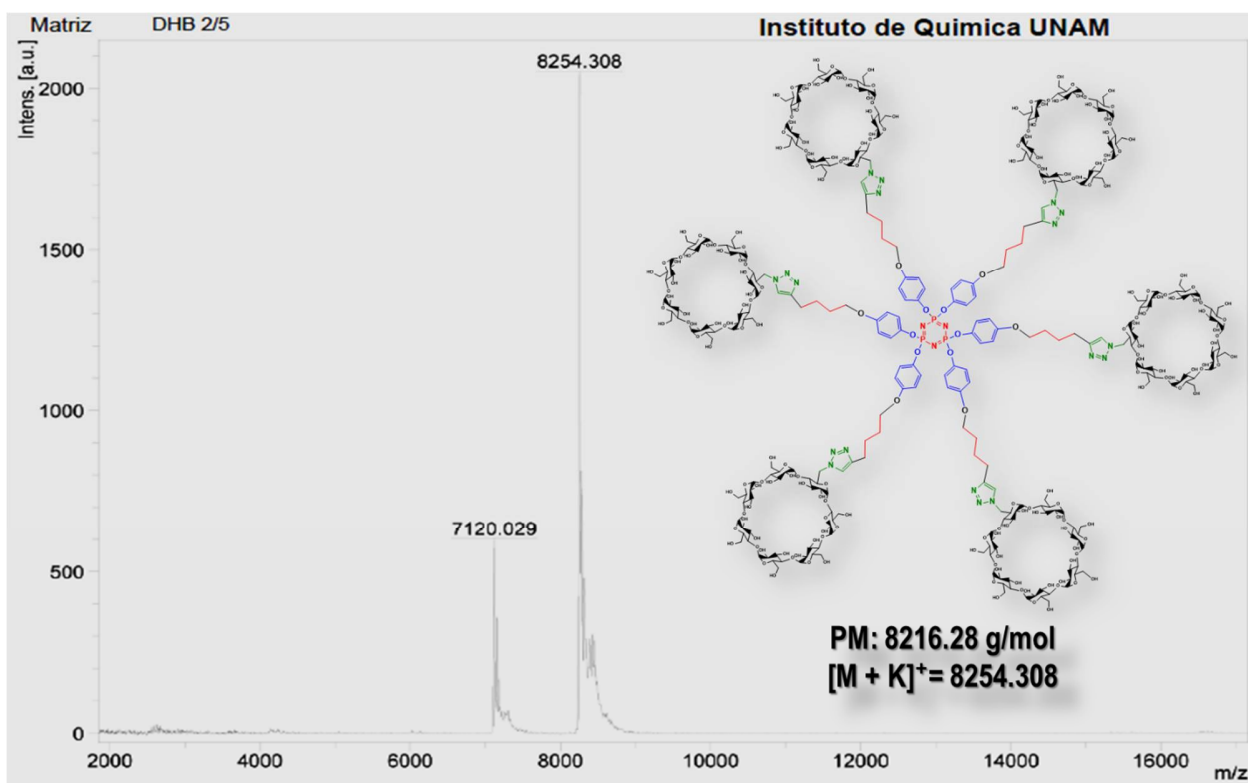


Figure S23. MALDI spectrum of P_3N_3 -[O-C₆H₄-O-(CH₂)₄-βCD]₆.

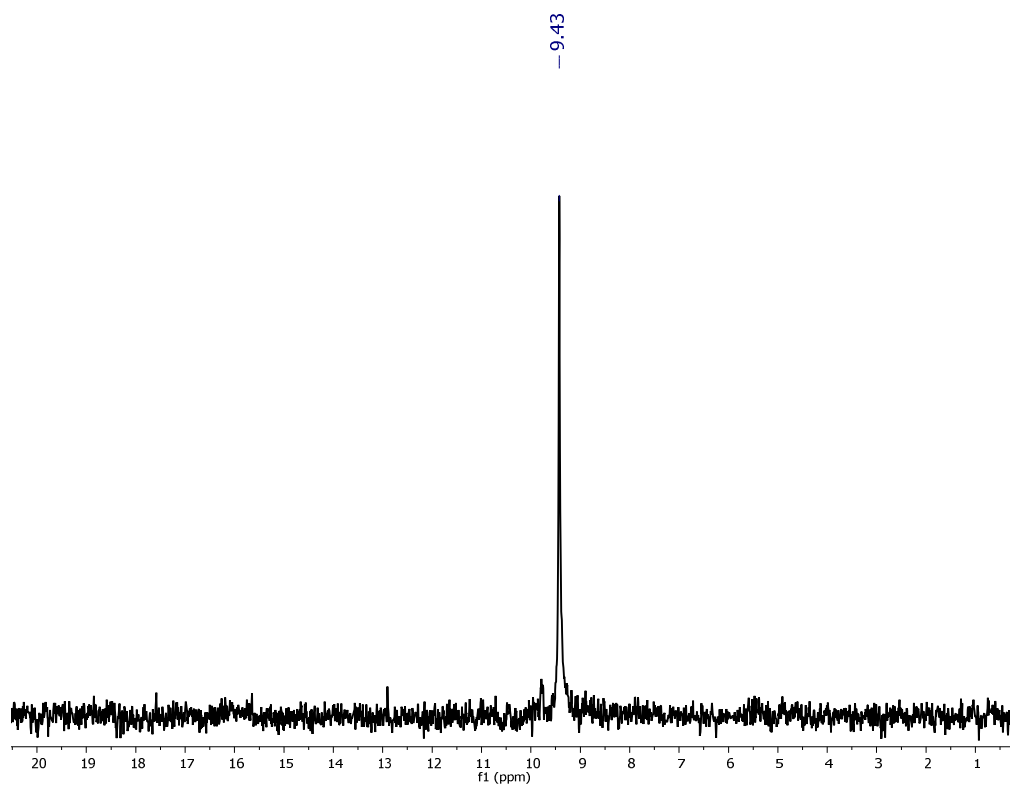


Figure S24. ³¹P-NMR spectrum of P_3N_3 -[O-C₆H₄-O-(CH₂)₄-βCD]₆.