

Blue emitting star-shaped and octasilsesquioxane-based polyanions bearing boron clusters. Photophysical and thermal properties.[†]

Justo Cabrera-González, Mahdi Chaari, Francesc Teixidor, Clara Viñas and Rosario Núñez*

Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Campus U.A.B., 08193, Bellaterra, Barcelona, Spain.

* Correspondence: rosario@icmab.es; Tel.: +34-93-580-1853

Contents:

Figure S1.	Structure of compound T₈-COSAN .
Figure S2.	¹ H NMR (Acetone-d ₆ , 300 MHz) of 4 .
Figure S3.	¹¹ B{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of 4 .
Figure S4.	¹³ C{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of 4 .
Figure S5.	¹ H NMR (Acetone-d ₆ , 300 MHz) of 5 .
Figure S6.	¹¹ B{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of 5 .
Figure S7.	¹³ C{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of 5 .
Figure S8.	¹ H NMR (Acetone-d ₆ , 300 MHz) of 6 .
Figure S9.	¹¹ B{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of 6 .
Figure S10.	¹³ C{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of 6 .
Figure S11.	¹ H NMR (Acetone-d ₆ , 300 MHz) of T₈-B₁₂ .
Figure S12.	¹¹ B{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of T₈-B₁₂ .
Figure S13.	¹³ C{ ¹ H} NMR (Acetone-d ₆ , 300 MHz) of T₈-B₁₂ .
Figure S14.	FTIR-ATR spectrum of 4 .
Figure S15.	FTIR-ATR spectrum of 5 .
Figure S16.	FTIR-ATR spectrum of 6 .
Figure S17.	FTIR-ATR spectrum of T₈-B₁₂ .

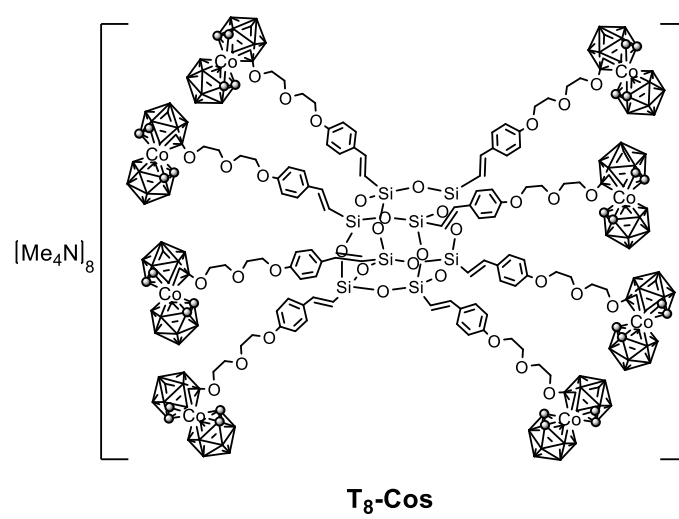
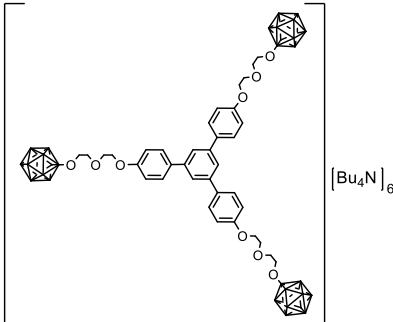


Figure S1. Structure of compound **T₈-COSAN**.



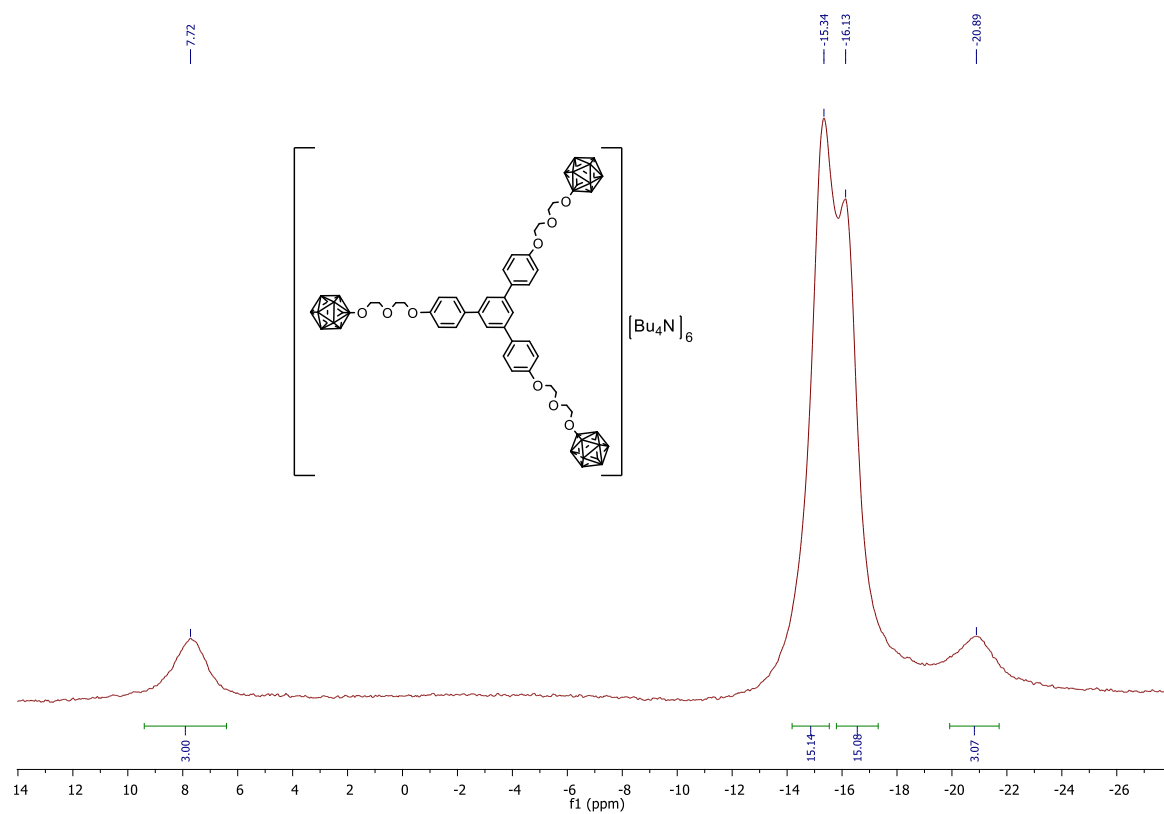


Figure S3. $^{11}\text{B}\{^1\text{H}\}$ NMR ($\text{Acetone-}d_6$, 300 MHz) of **4**.

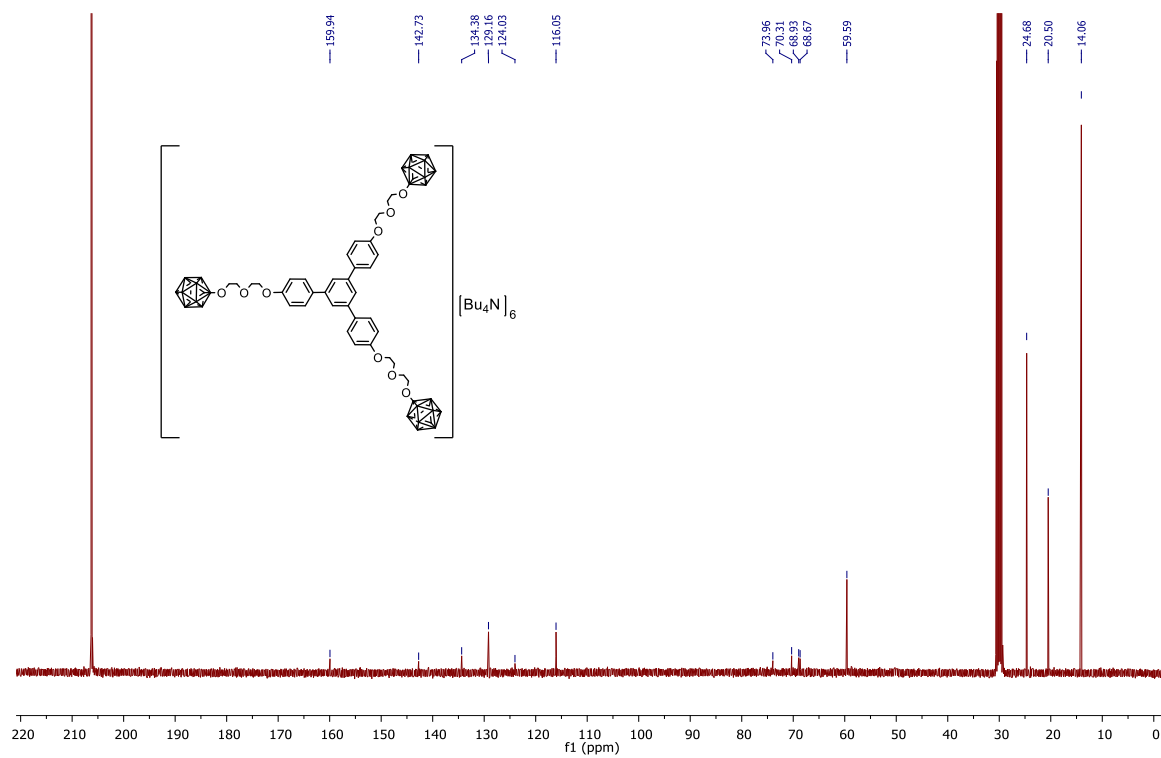


Figure S4. $^{13}\text{C}\{^1\text{H}\}$ NMR (Acetone- d_6 , 300 MHz) of **4**.

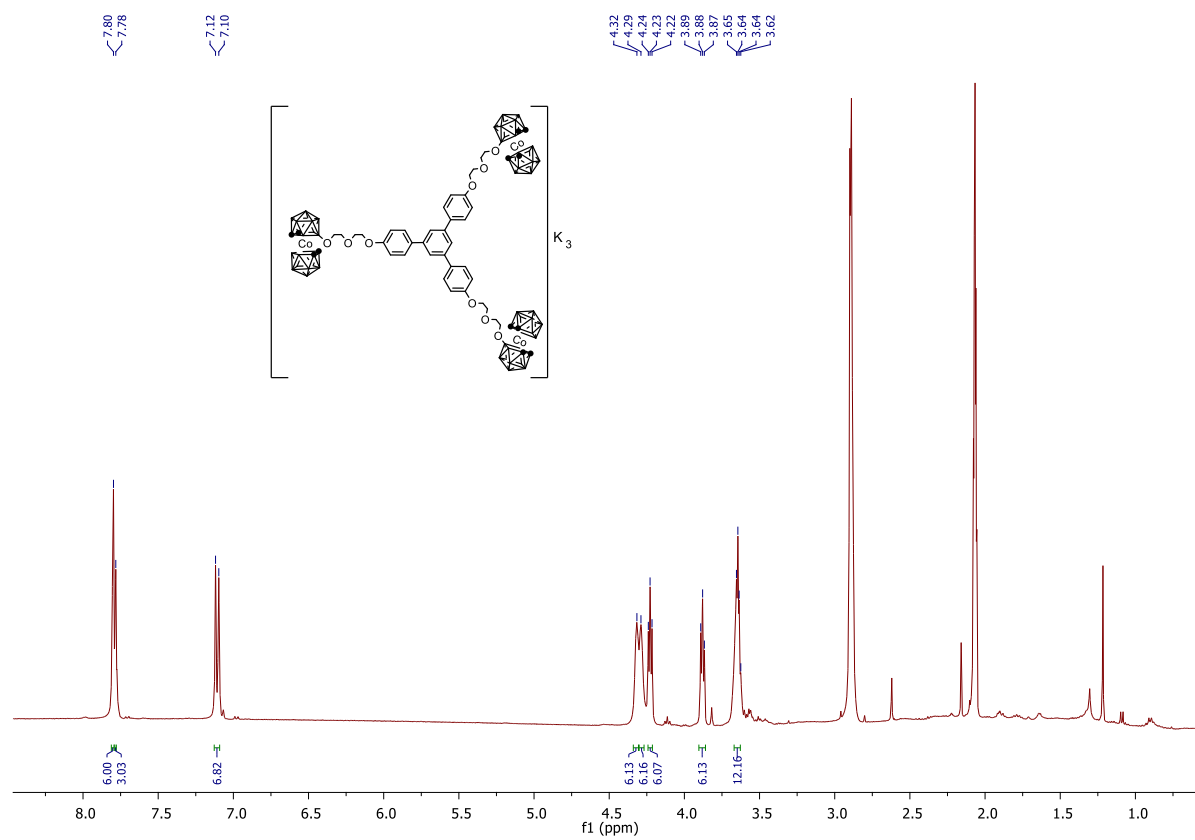


Figure S5. ¹H NMR (Acetone-d₆, 300 MHz) of 5.

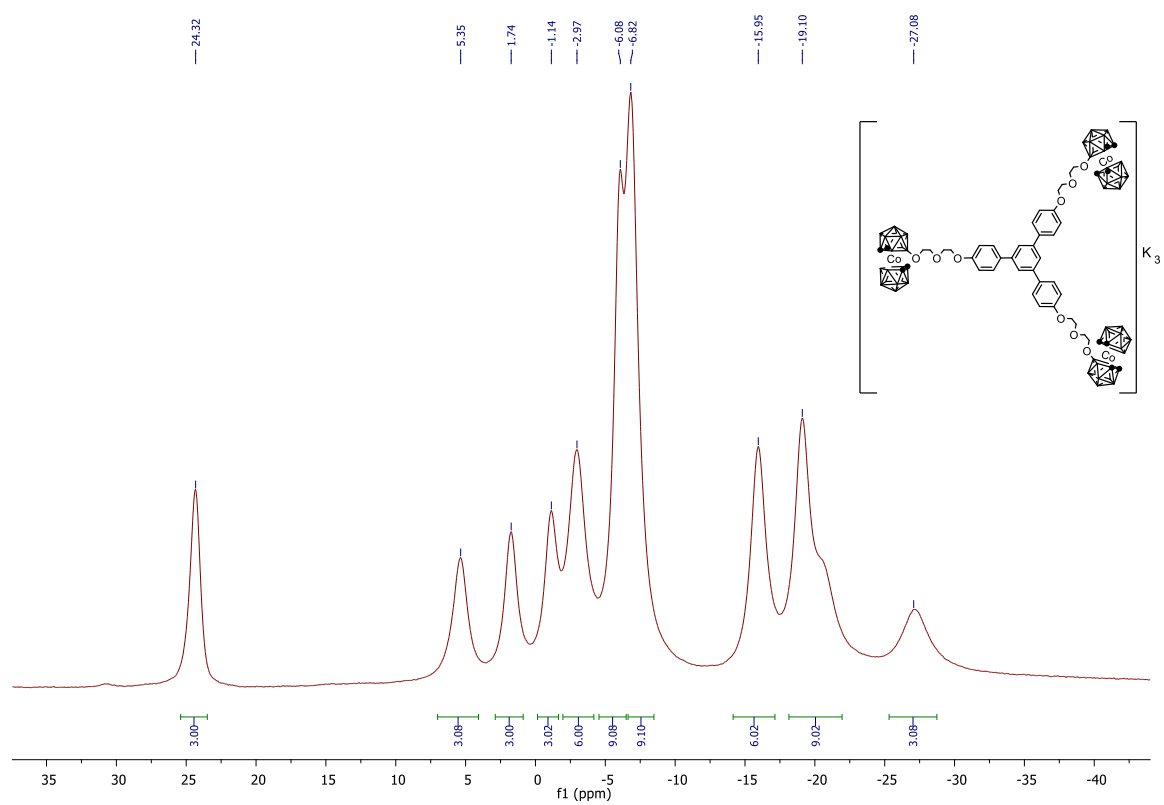


Figure S6. $^{11}\text{B}\{^1\text{H}\}$ NMR (Acetone-d_6 , 300 MHz) of 5.

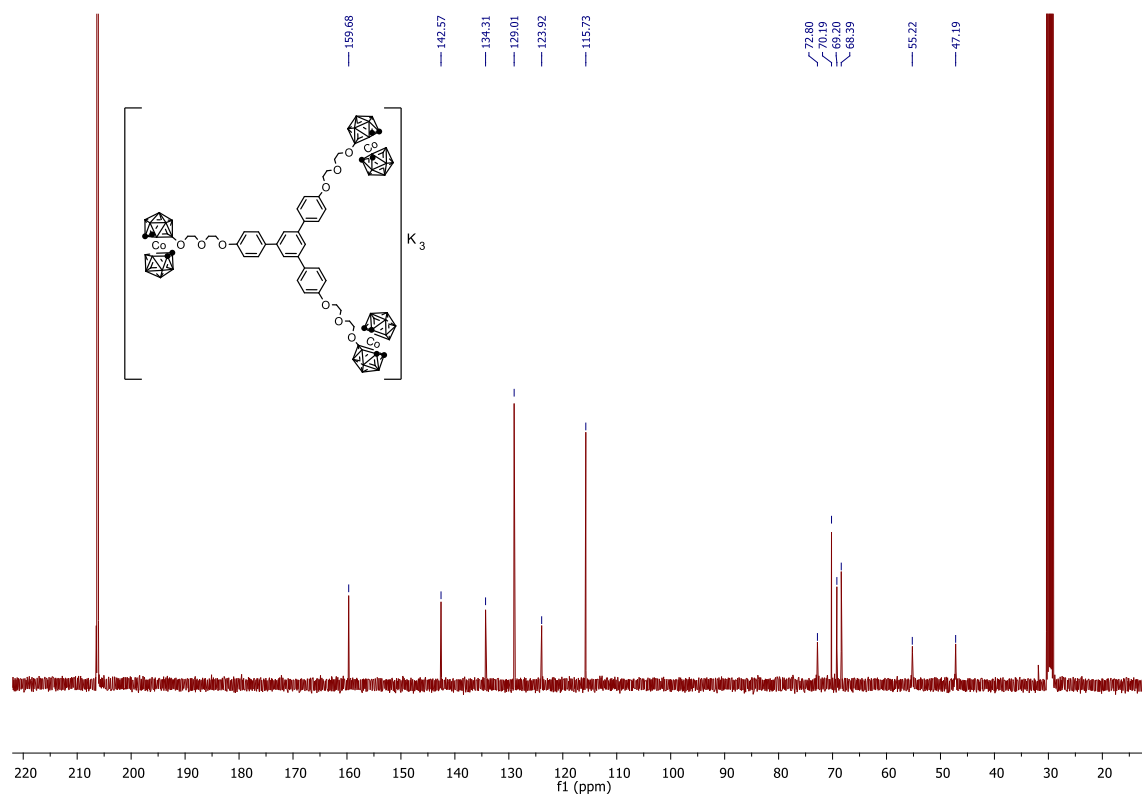


Figure S7. $^{13}\text{C}\{^1\text{H}\}$ NMR (Acetone- d_6 , 300 MHz) of 5.

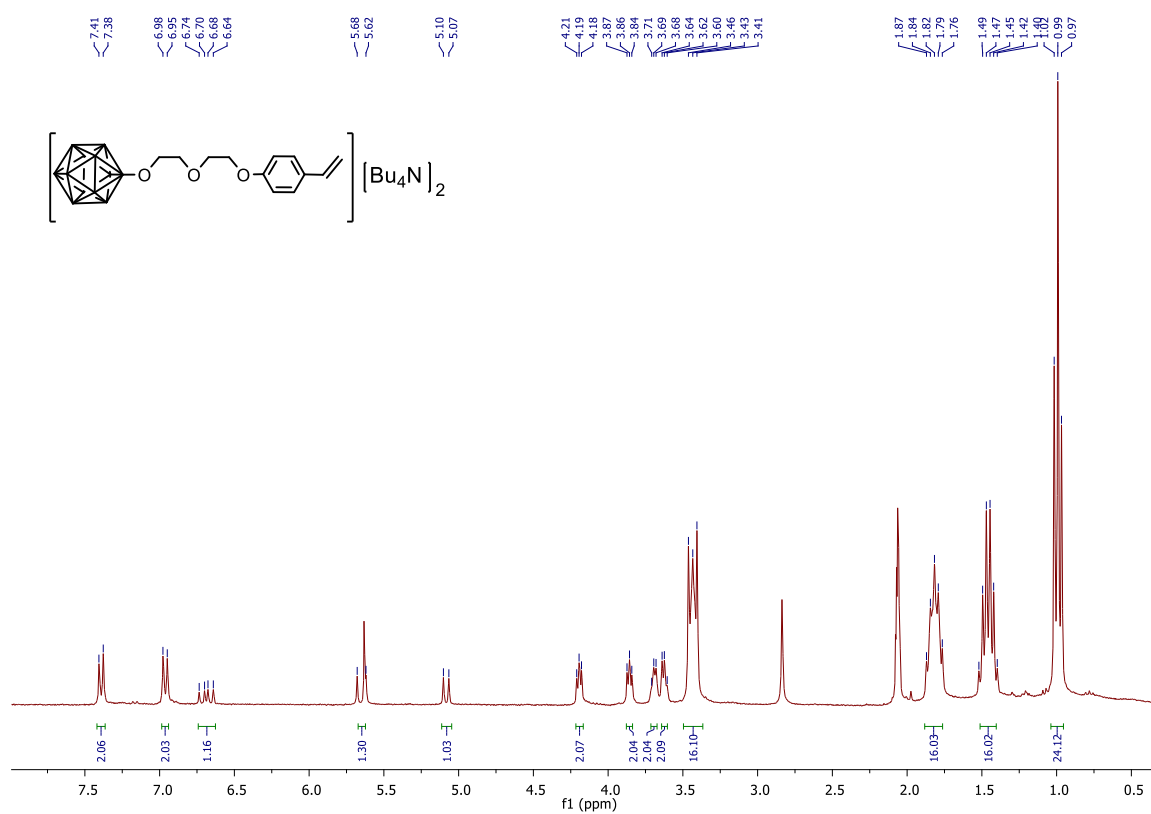
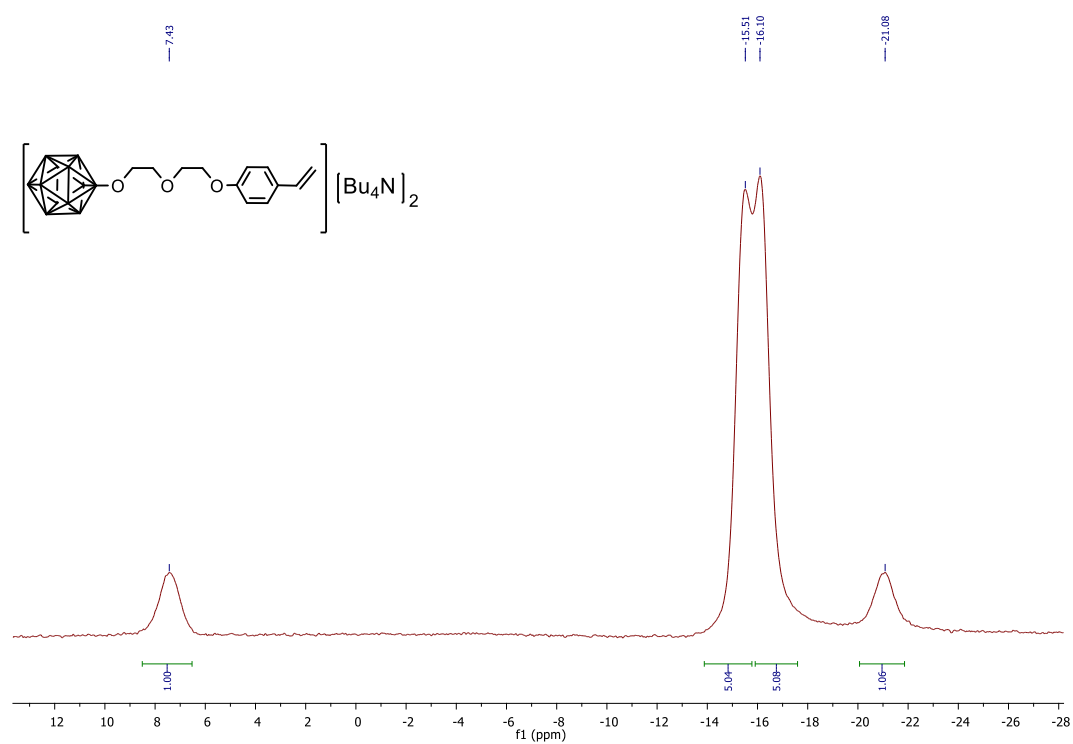


Figure S8. ^1H NMR (Acetone- d_6 , 300 MHz) of **6**.



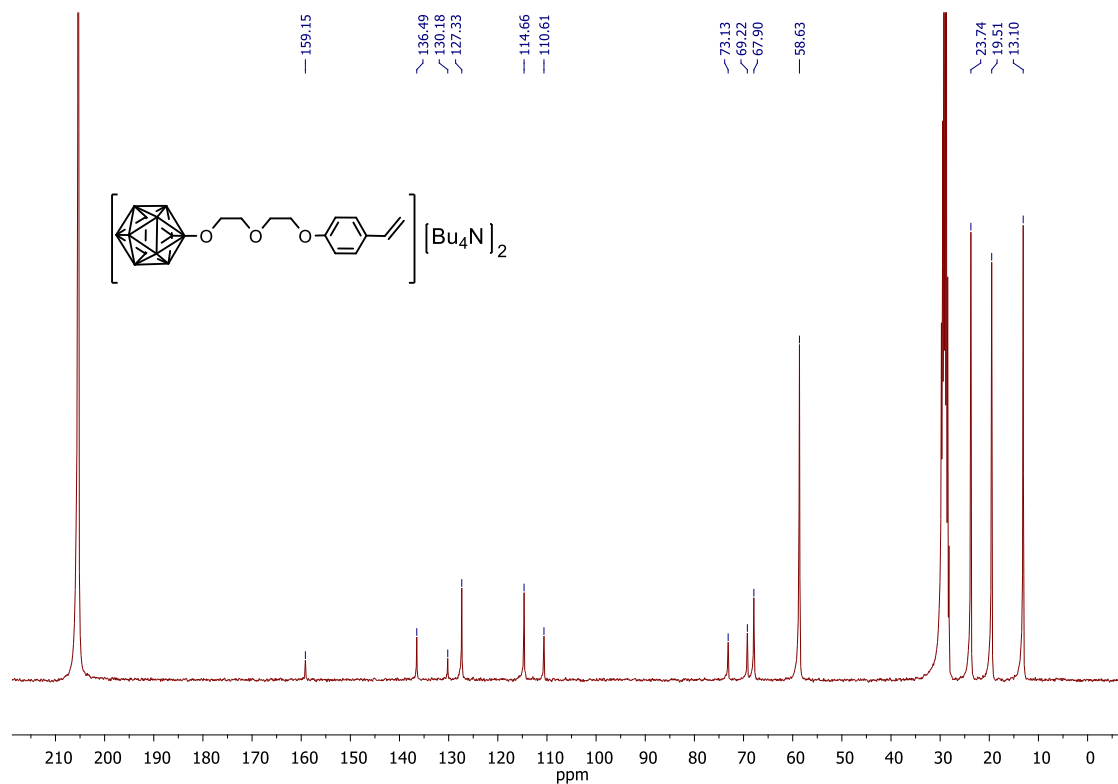


Figure S10. $^{13}\text{C}\{^1\text{H}\}$ NMR (Acetone- d_6 , 300 MHz) of **6**.

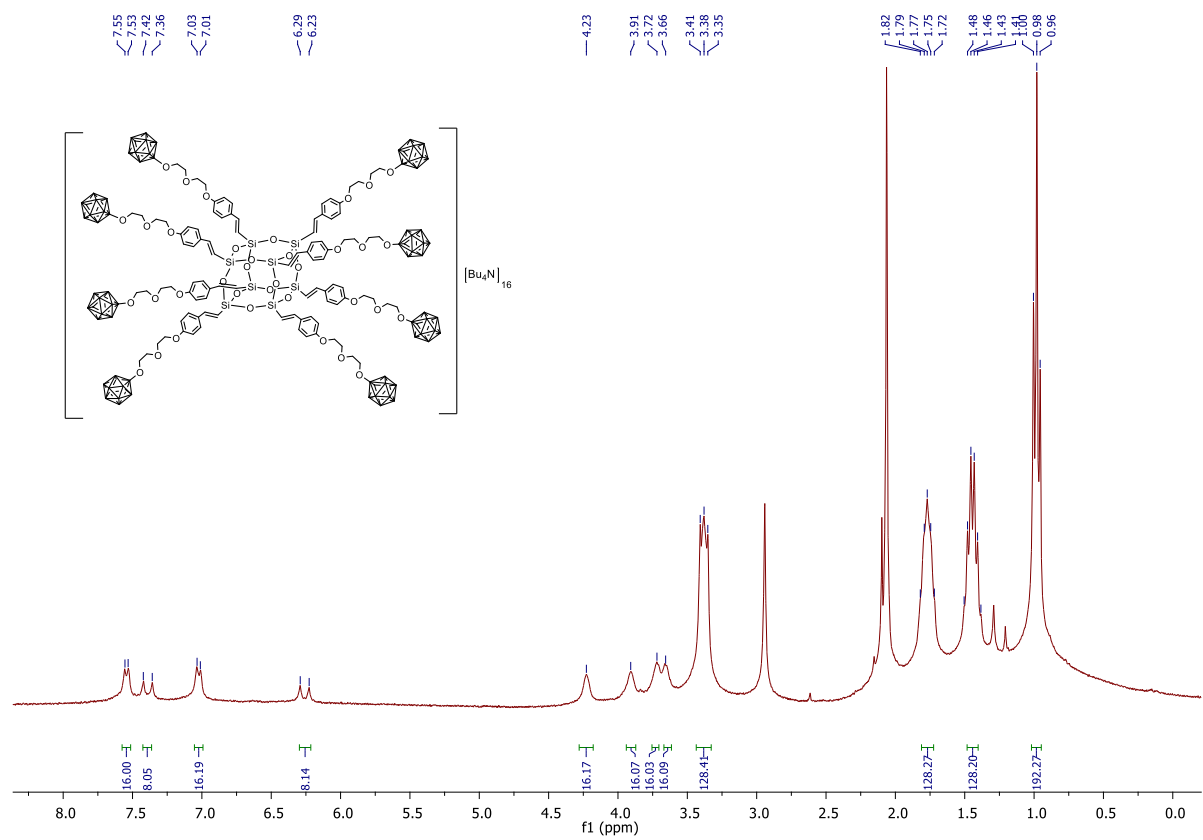


Figure S11. ^1H NMR (Acetone- d_6 , 300 MHz) of **T₈-B₁₂**.

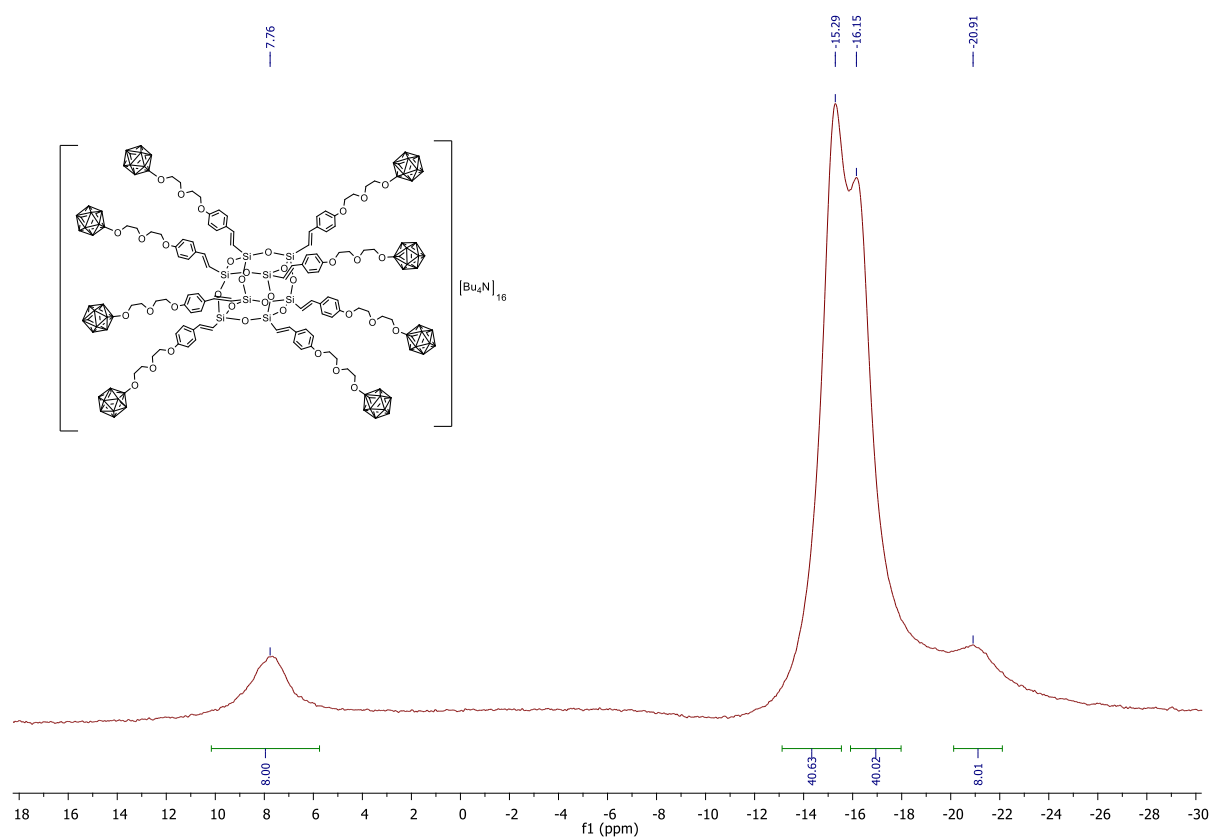


Figure S12. $^{11}\text{B}\{^1\text{H}\}$ NMR (Acetone-d_6 , 300 MHz) of $\text{T}_8\text{-B}_{12}$.

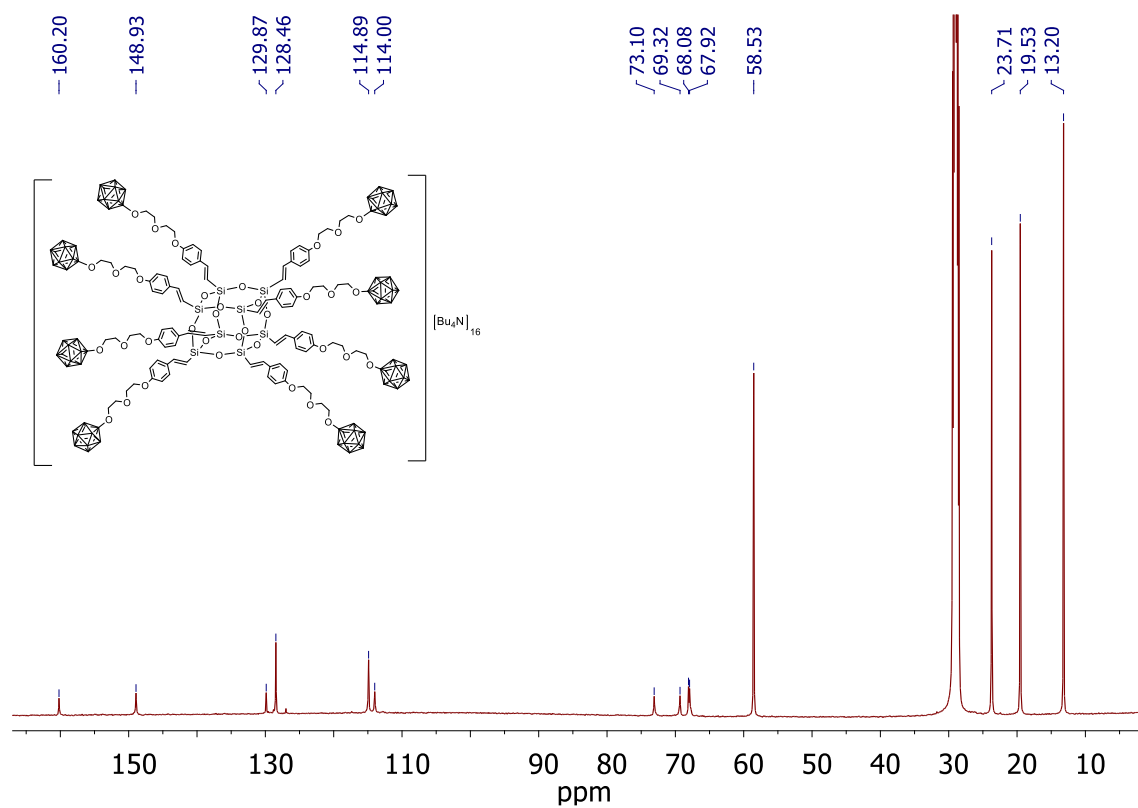


Figure S13. $^{13}C\{^1H\}$ NMR (Acetone- d_6 , 300 MHz) of **T₈-B₁₂**.

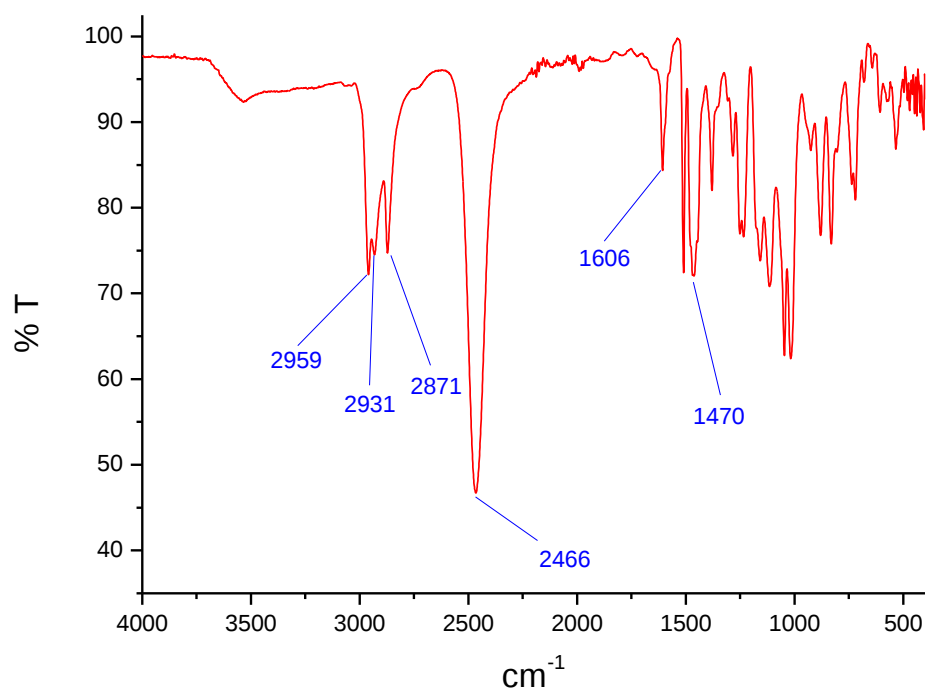


Figure S14. FTIR-ATR spectrum of **4**.

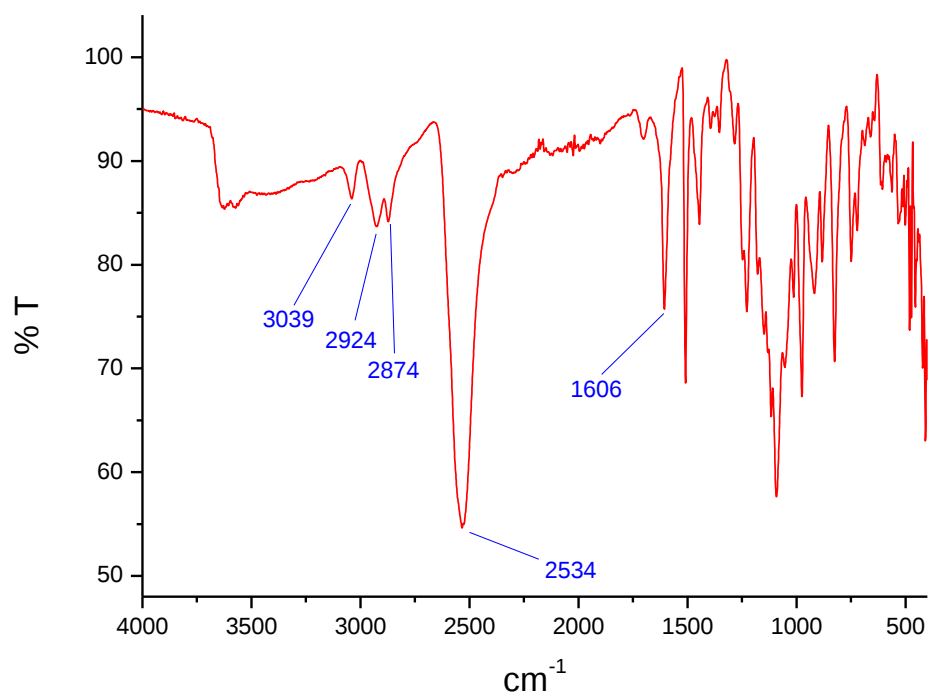


Figure S15. FTIR-ATR spectrum of 5.

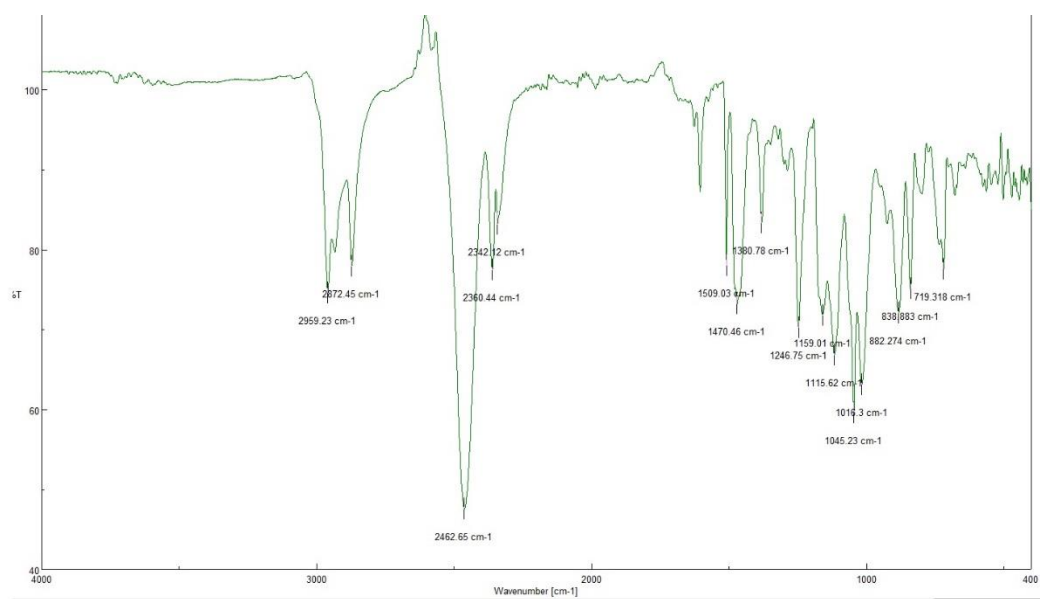


Figure S16. FTIR-ATR spectrum of **6**.

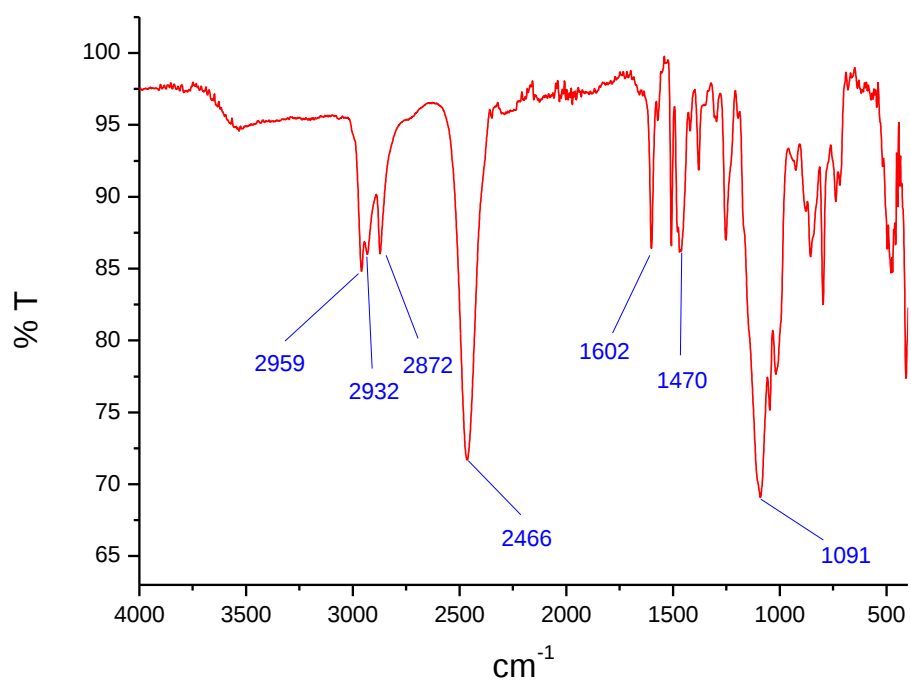


Figure S17. FTIR-ATR spectrum of T₈-B₁₂.