

Supporting Information for

One, Two, and Three Methylene Phosphonic Acid Groups ($-\text{CH}_2\text{PO}_3\text{H}_2$) on a Mesitylene Ring:

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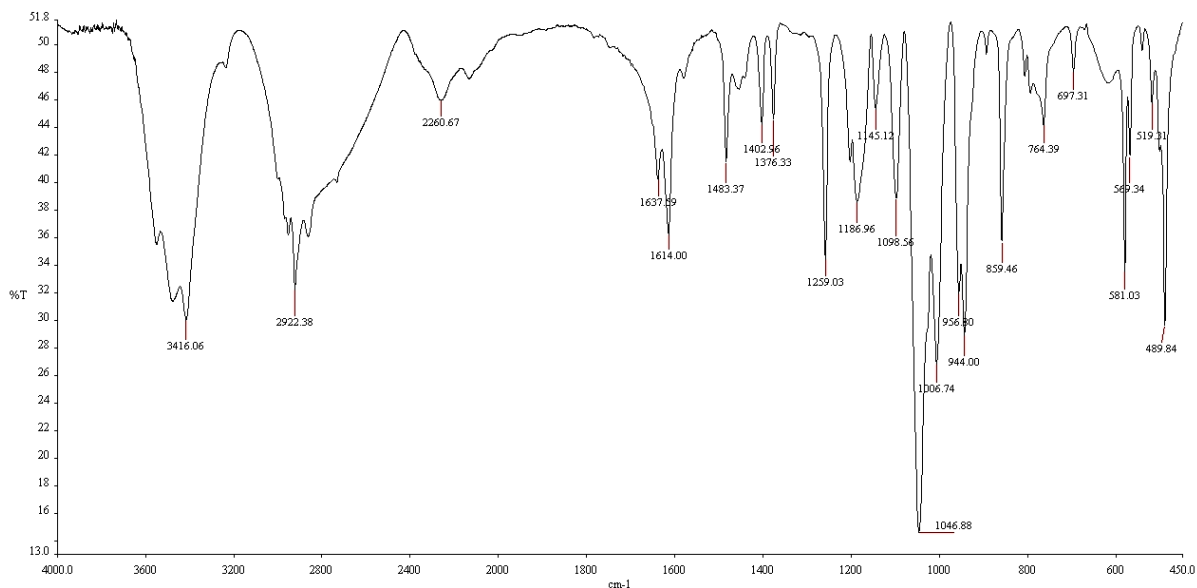


Figure S1. IR spectrum of **1** as KBr diluted disc.

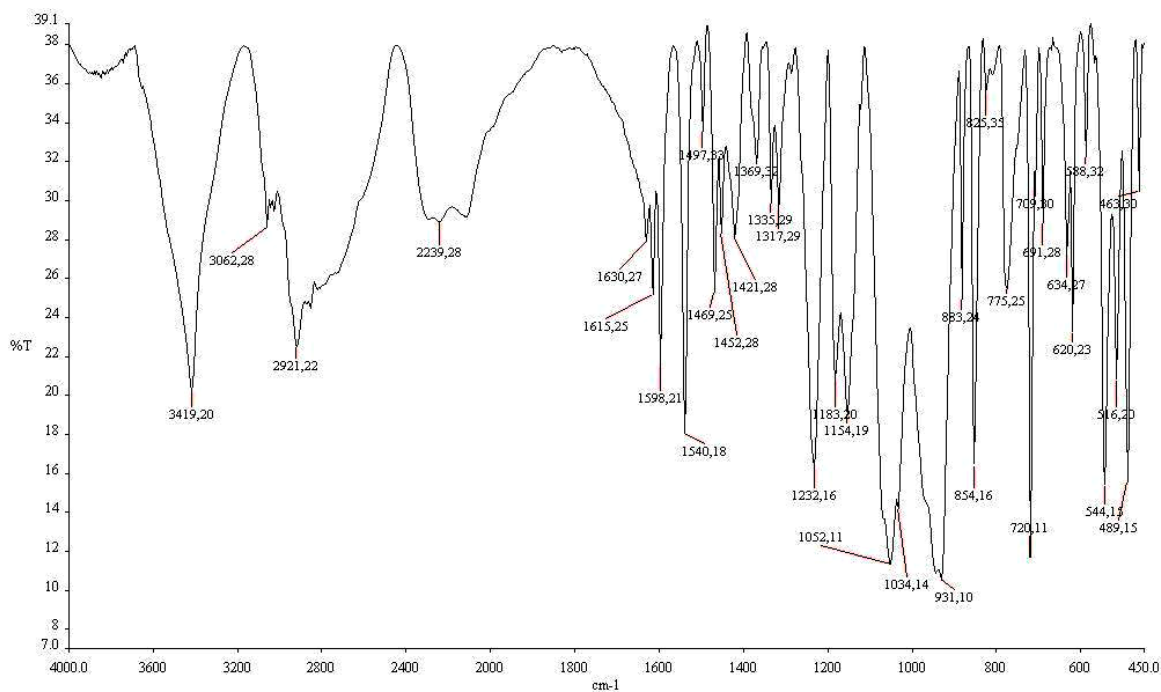


Figure S2. IR spectrum of **2** as KBr diluted disc.

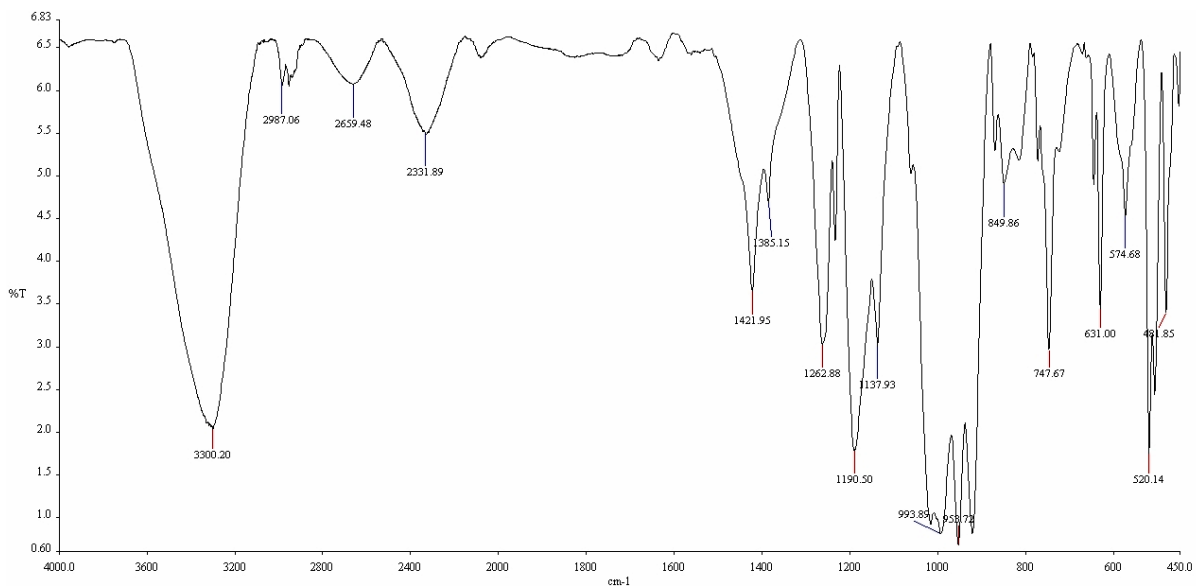


Figure S3. IR spectrum of **3** as KBr diluted disc.

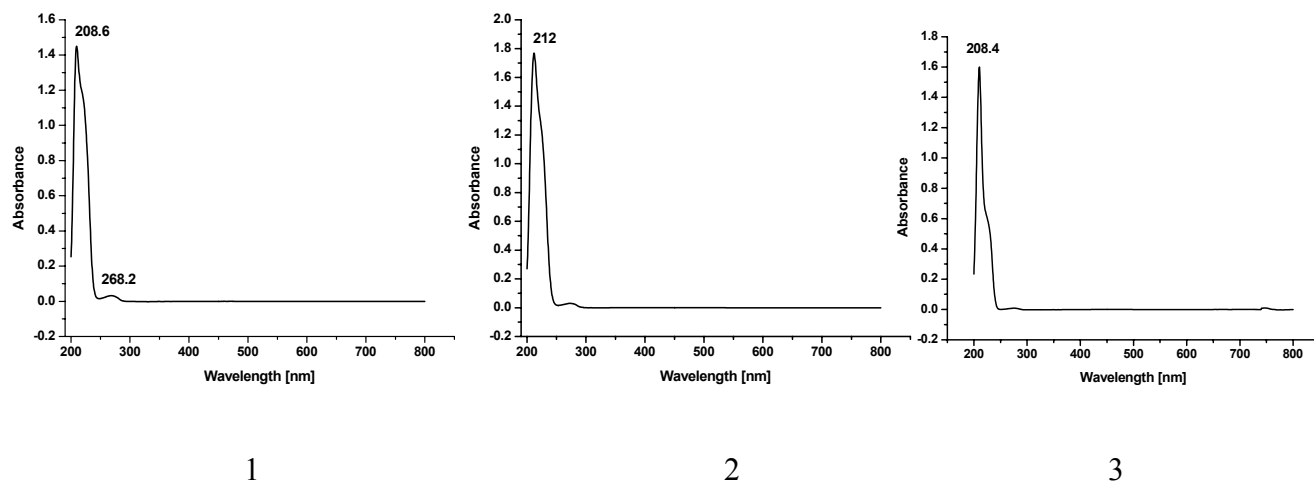
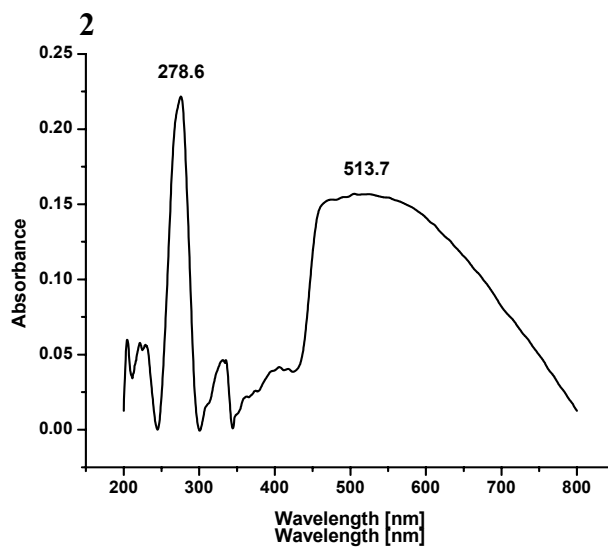
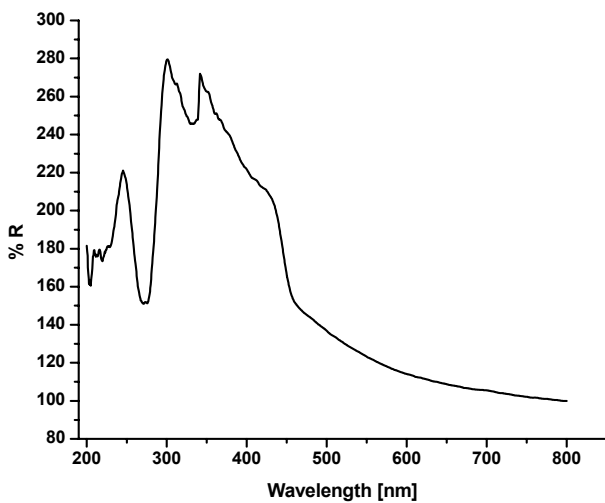
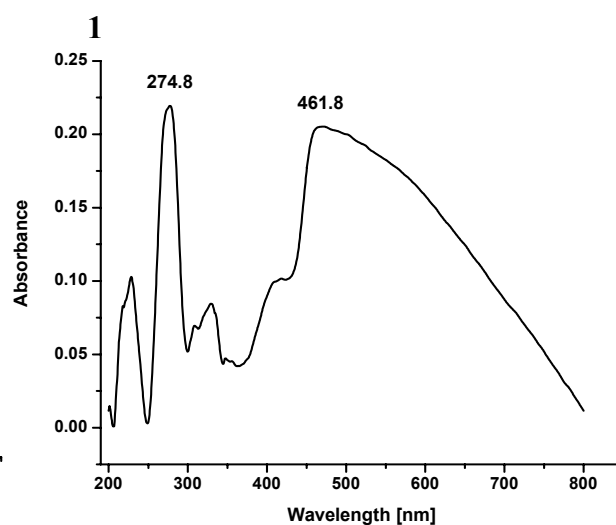
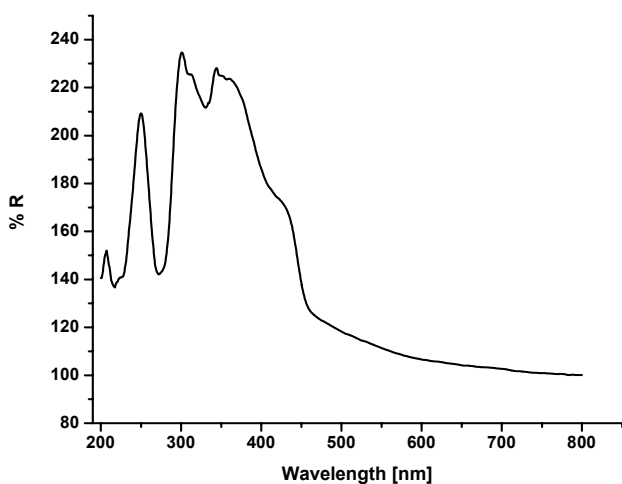
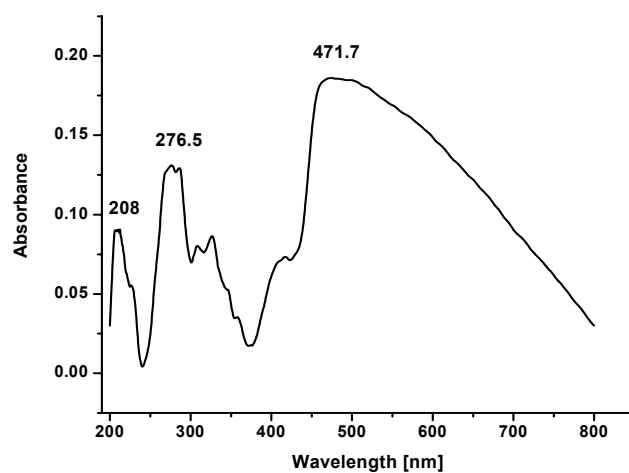
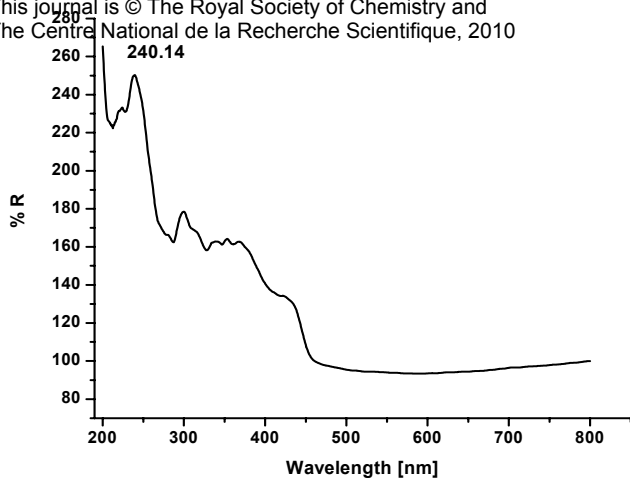


Figure S4. UV-vis spectrum of **1**, **2** and **3** in methanol.



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Figure S5. DR-UV spectra of 1, 2, and 3.

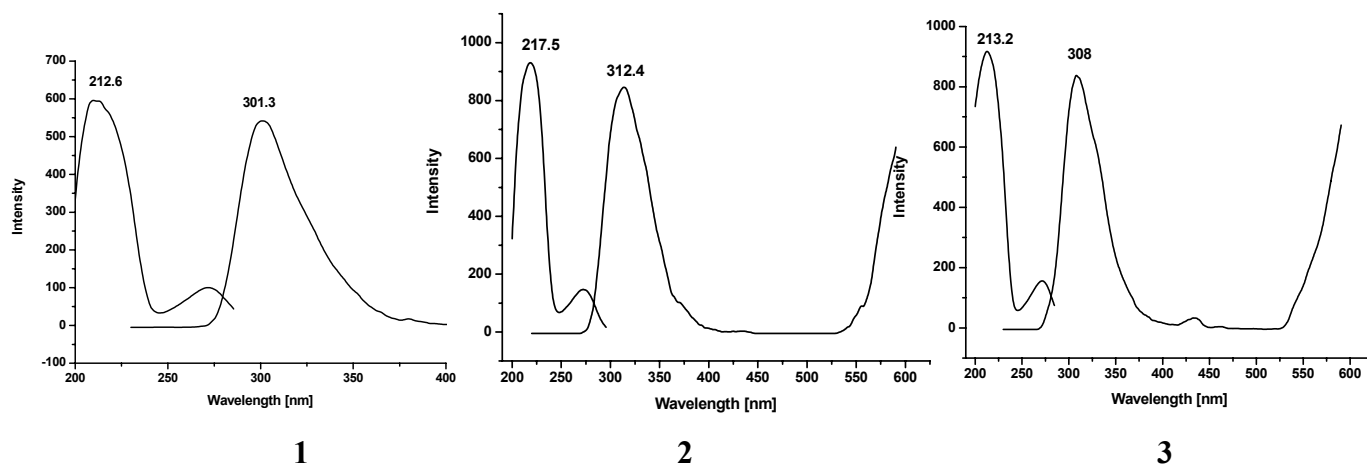


Figure S6. Fluorescence spectra of **1**, **2** and **3** in methanol.

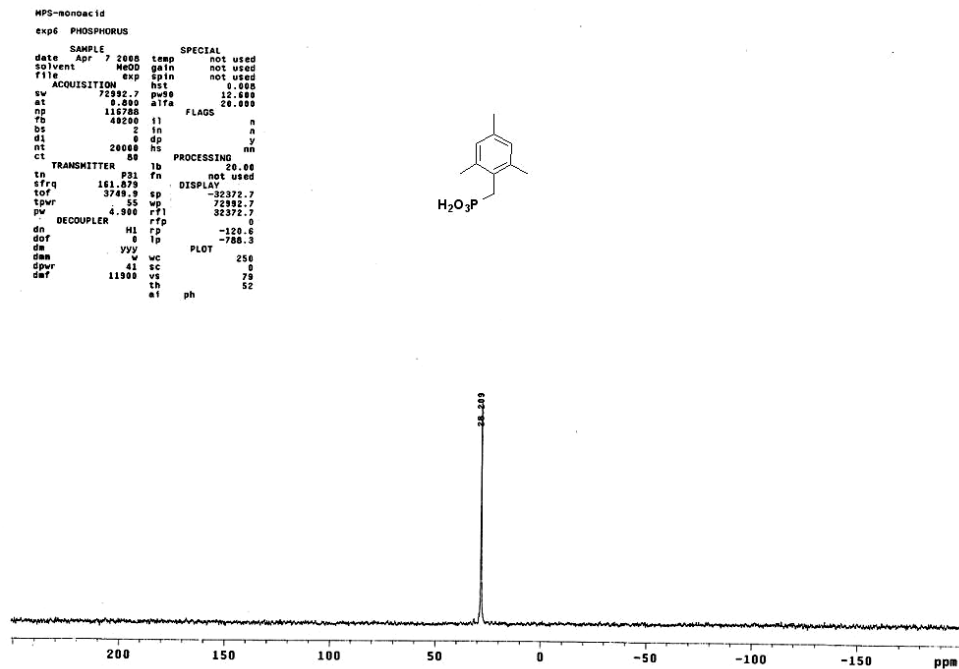


Figure S7. ^{31}P NMR spectrum of **1** in CD_3OD .

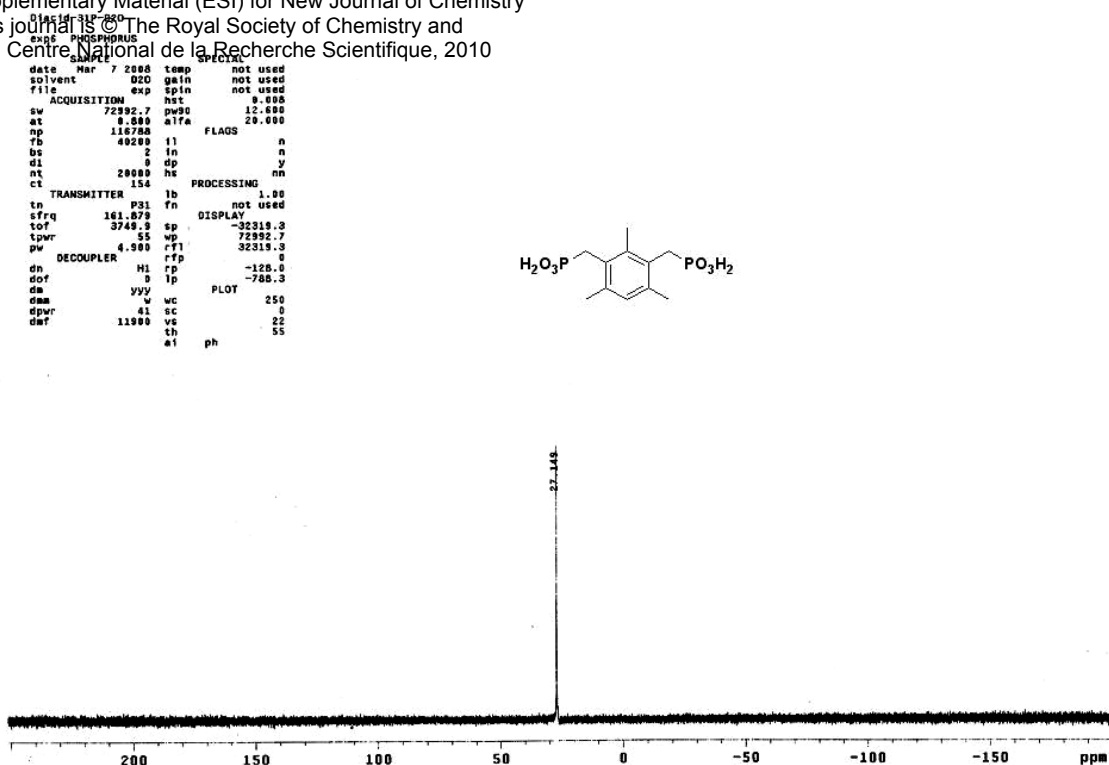


Figure S8. ^{31}P NMR spectrum of **2** in D_2O .

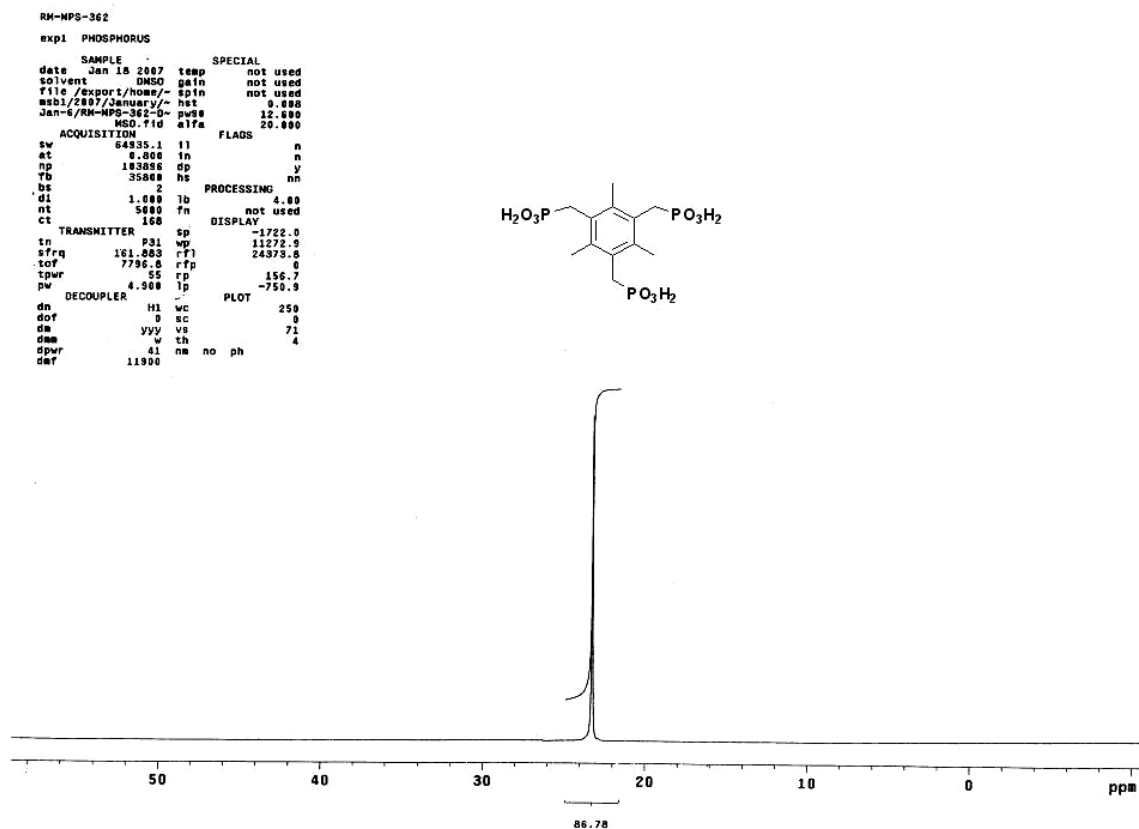


Figure S9. ^{31}P NMR spectrum of **3** in D_2O .

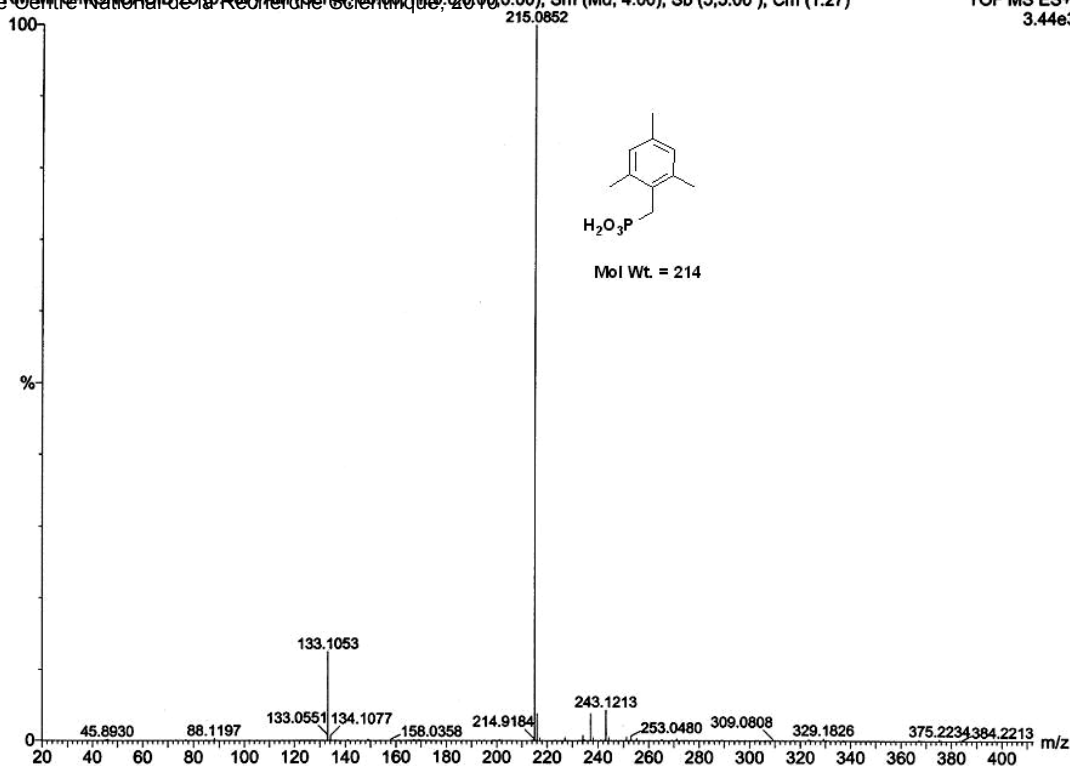
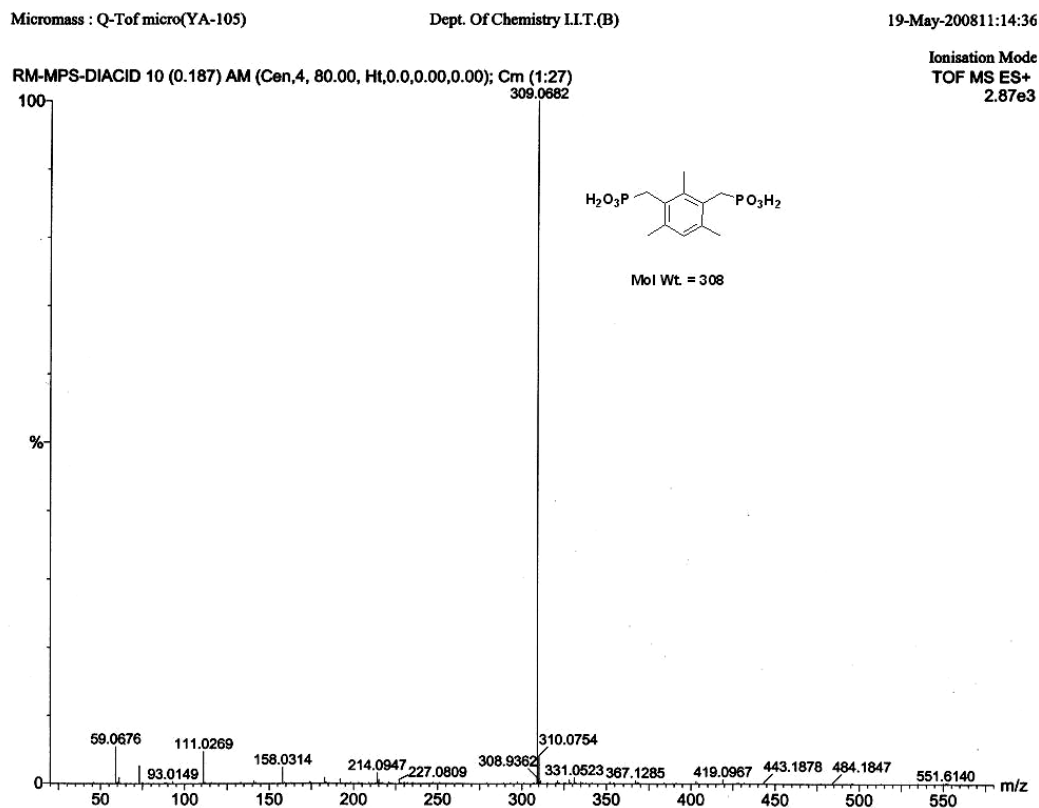


Figure S10. Mass spectrum of 1.



S11. Mass spectrum of 2.

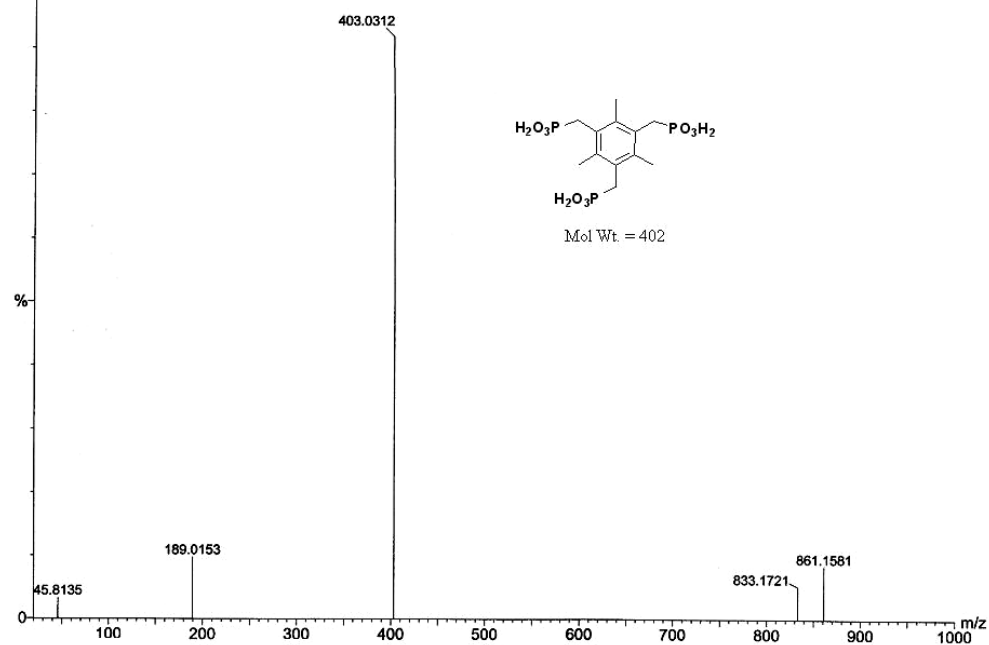


Figure S12. Mass spectrum of 3.

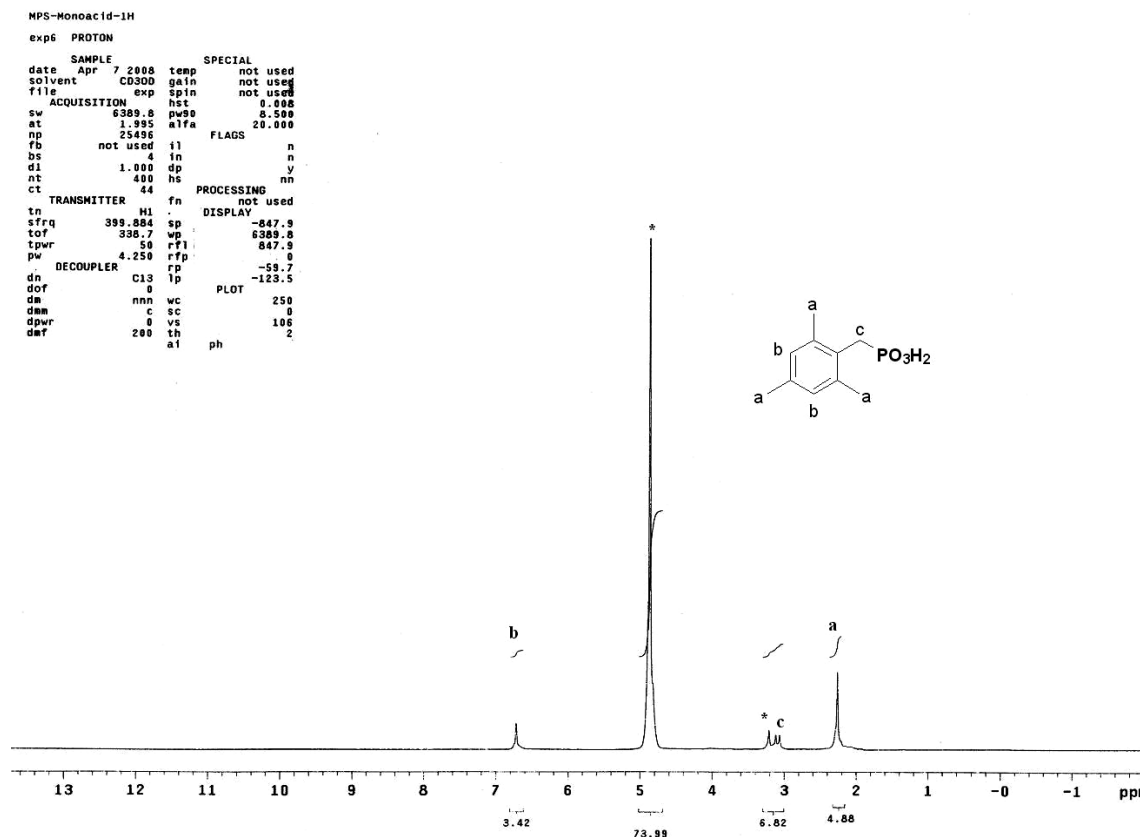


Figure S13. ¹H NMR spectrum of 1 in CD₃OD.

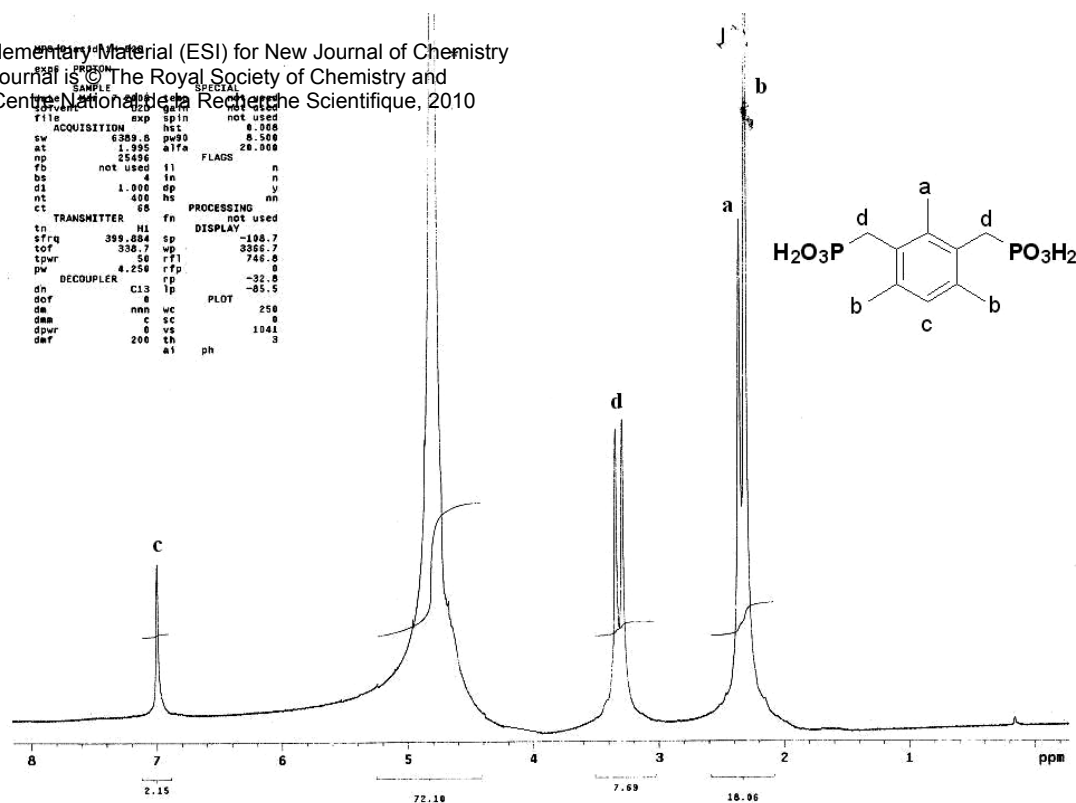


Figure S14. ¹H NMR spectrum of 2 in D₂O.

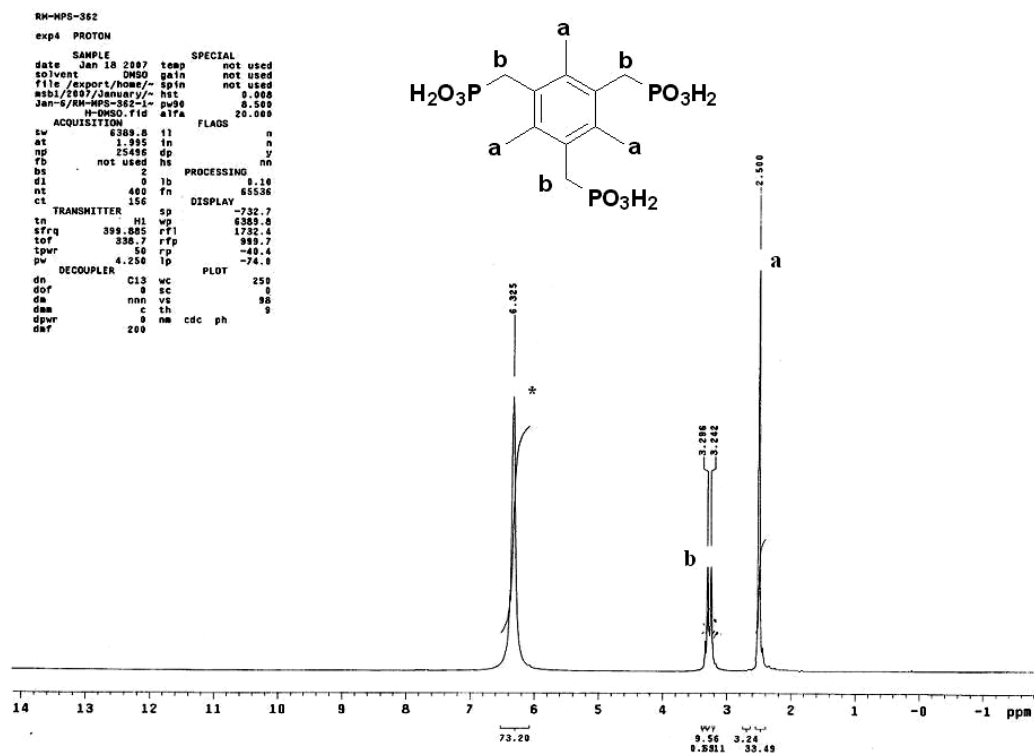


Figure S15. ¹H NMR spectrum of 3 in DMSO (*d*₆).