

Supplementary Information

Single Step Reductive Polymerization of Functional 3,4-Propylenedioxythiophenes via Direct C-H Arylation Catalyzed by Palladium Acetate

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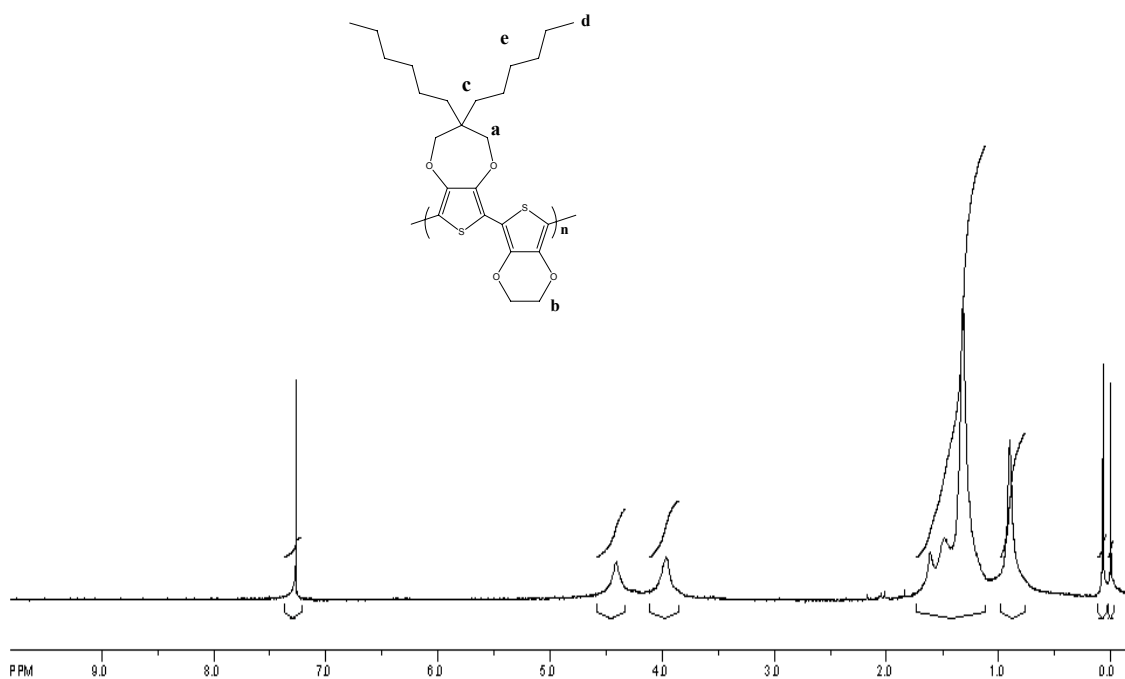


Figure 1. ¹H NMR of P1-a in CDCl₃

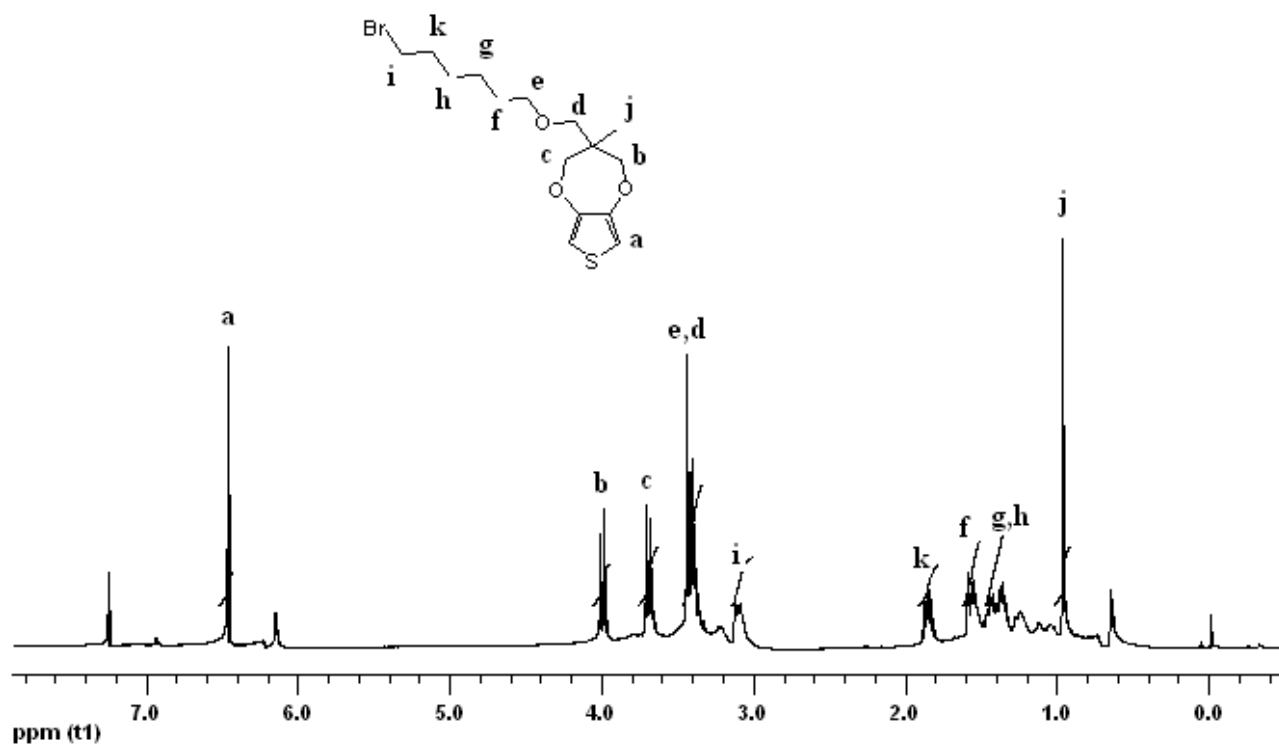


Figure 2. ^1H NMR of **3d** in CDCl_3

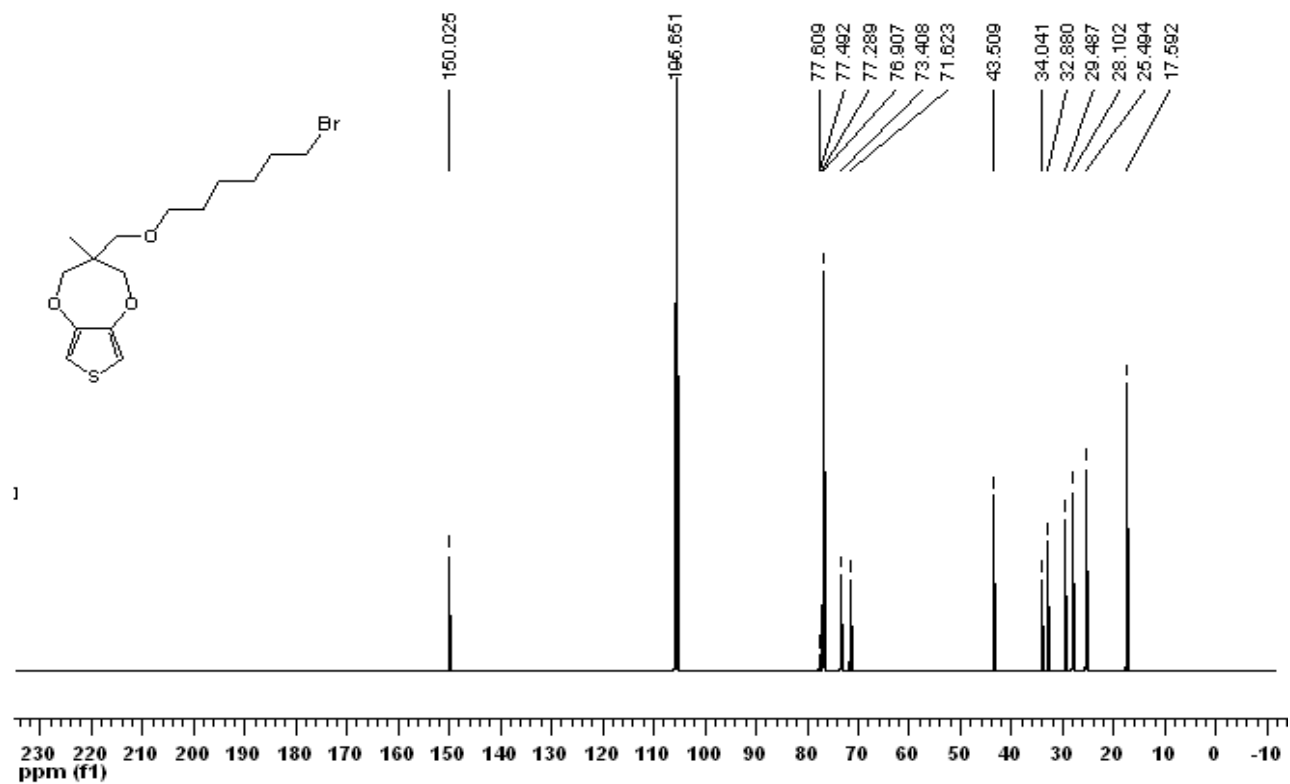


Figure 3. ^{13}C NMR of 3d in CDCl_3

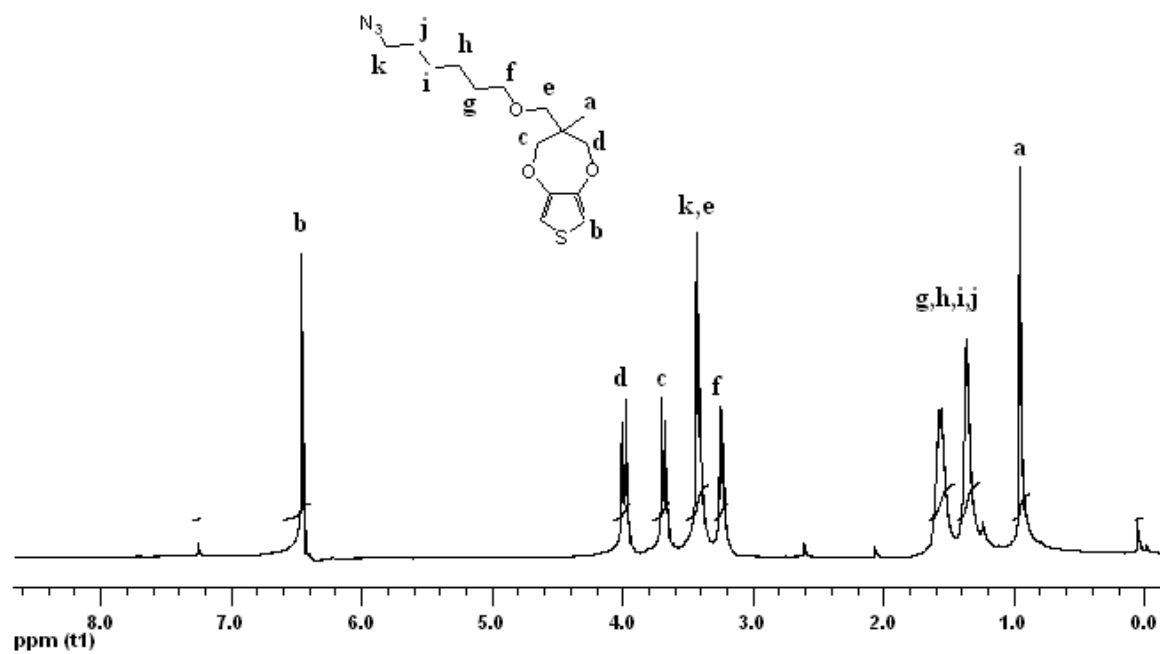


Figure 4. ^1H NMR of **3e** in CDCl_3

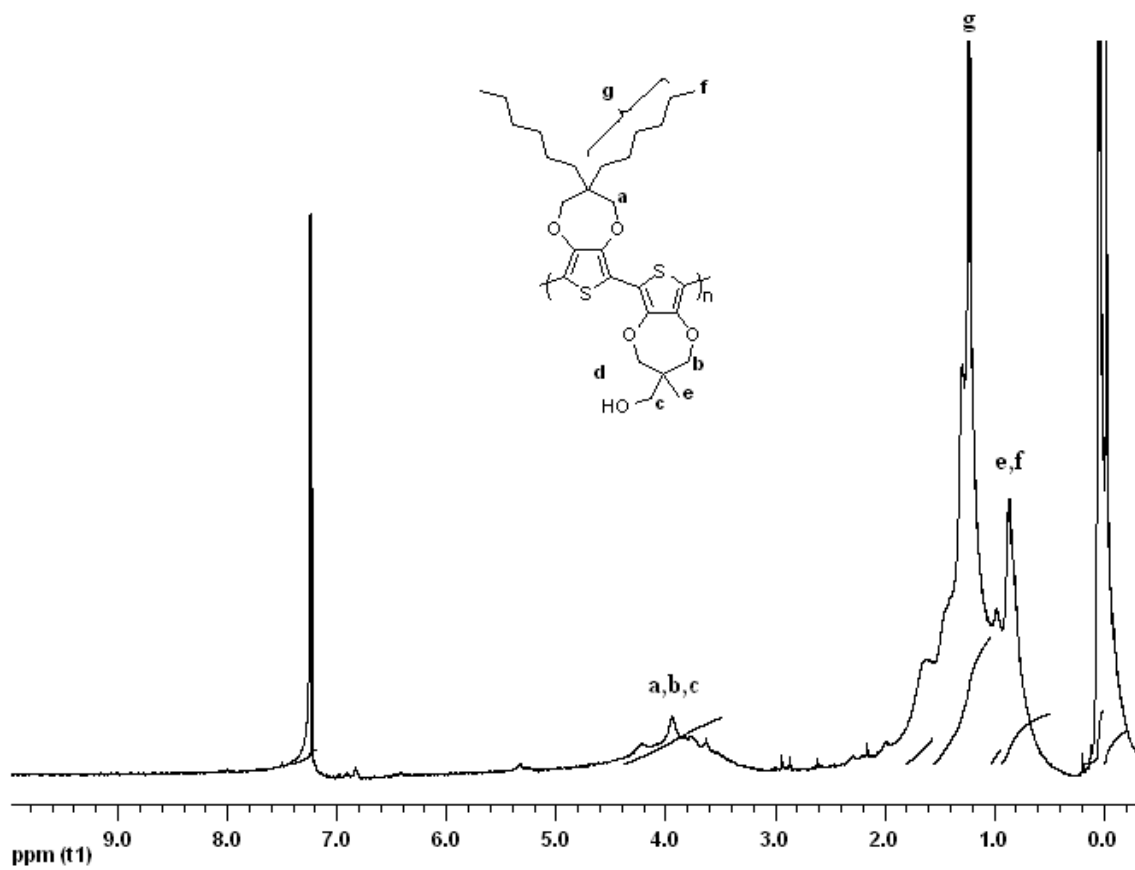


Figure 5. ^1H NMR of P3a in CDCl_3

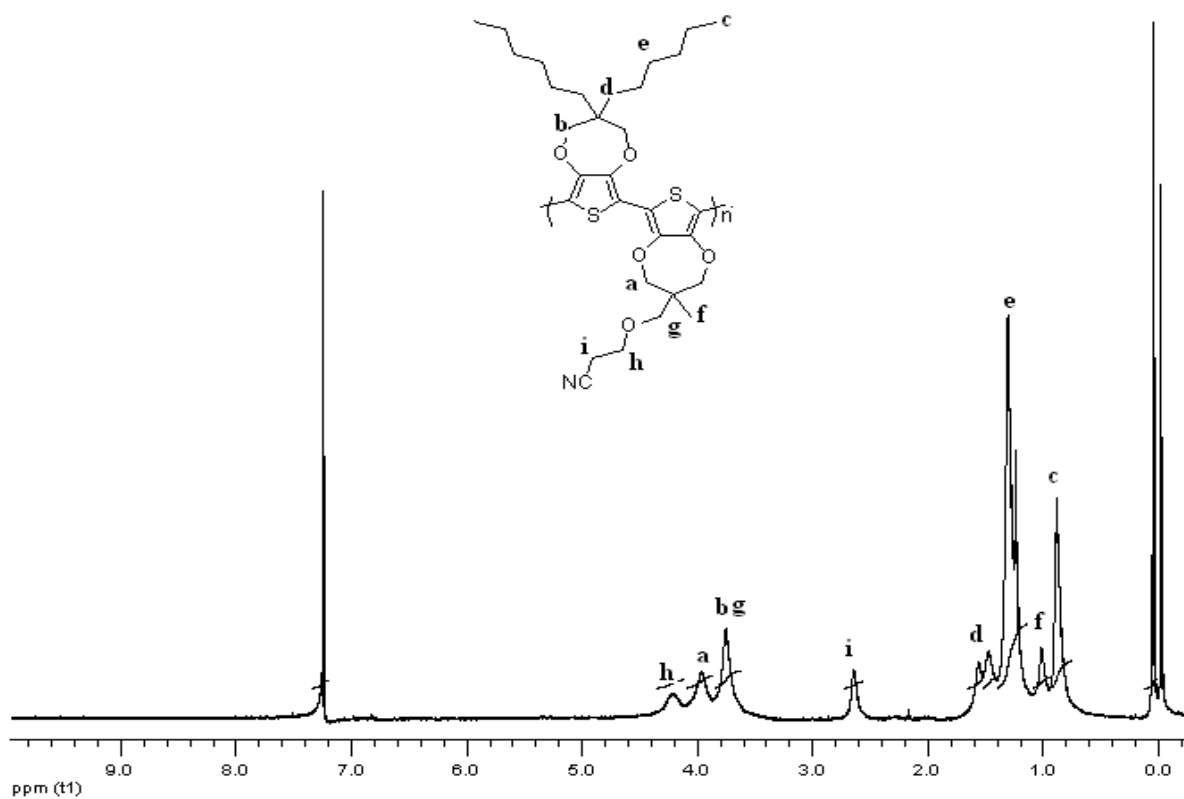


Figure 6. ^1H NMR of P3b in CDCl_3

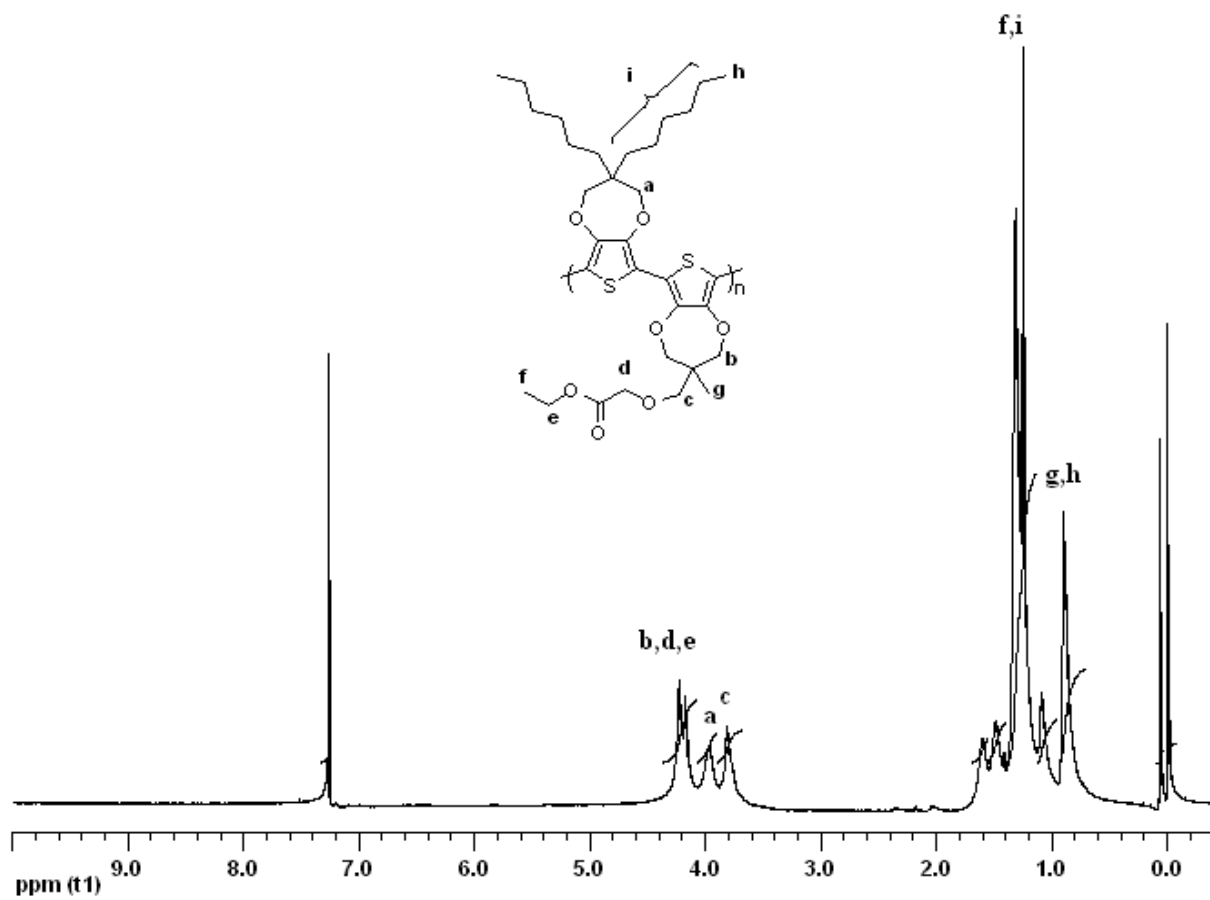


Figure 7. ^1H NMR of P3c in CDCl_3

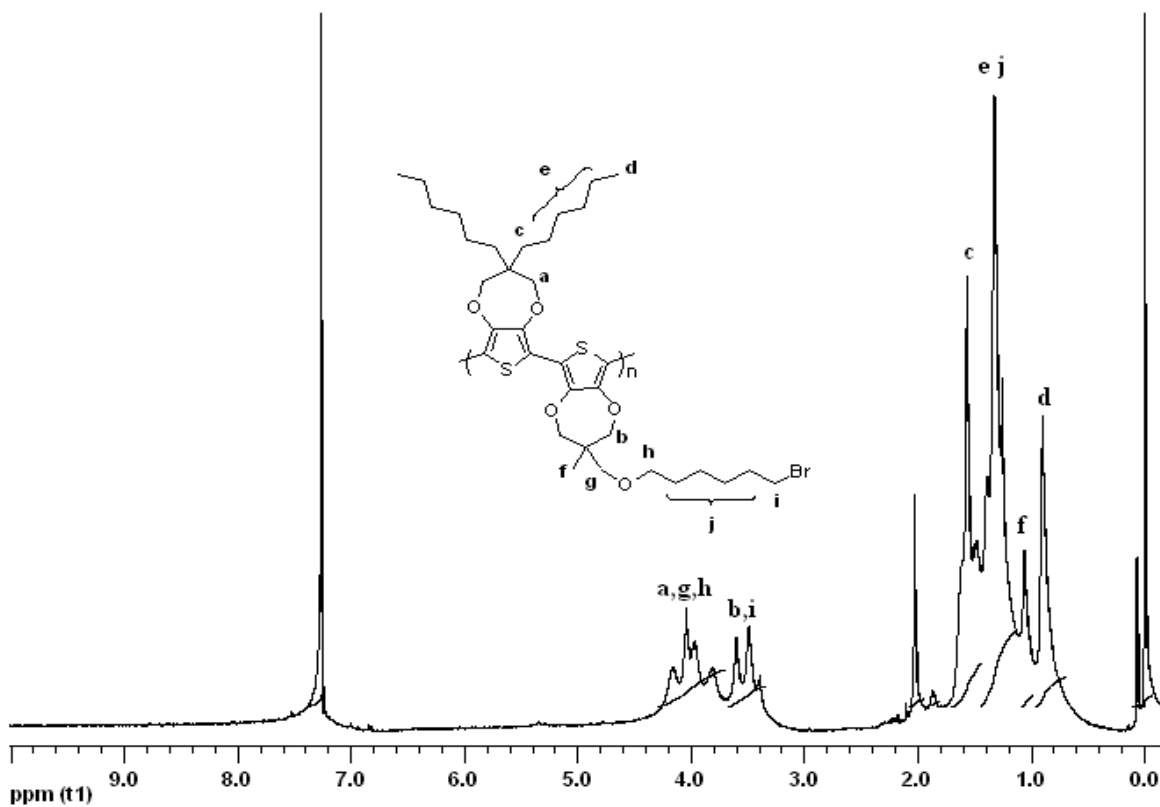


Figure 8. ^1H NMR of P3d in CDCl_3

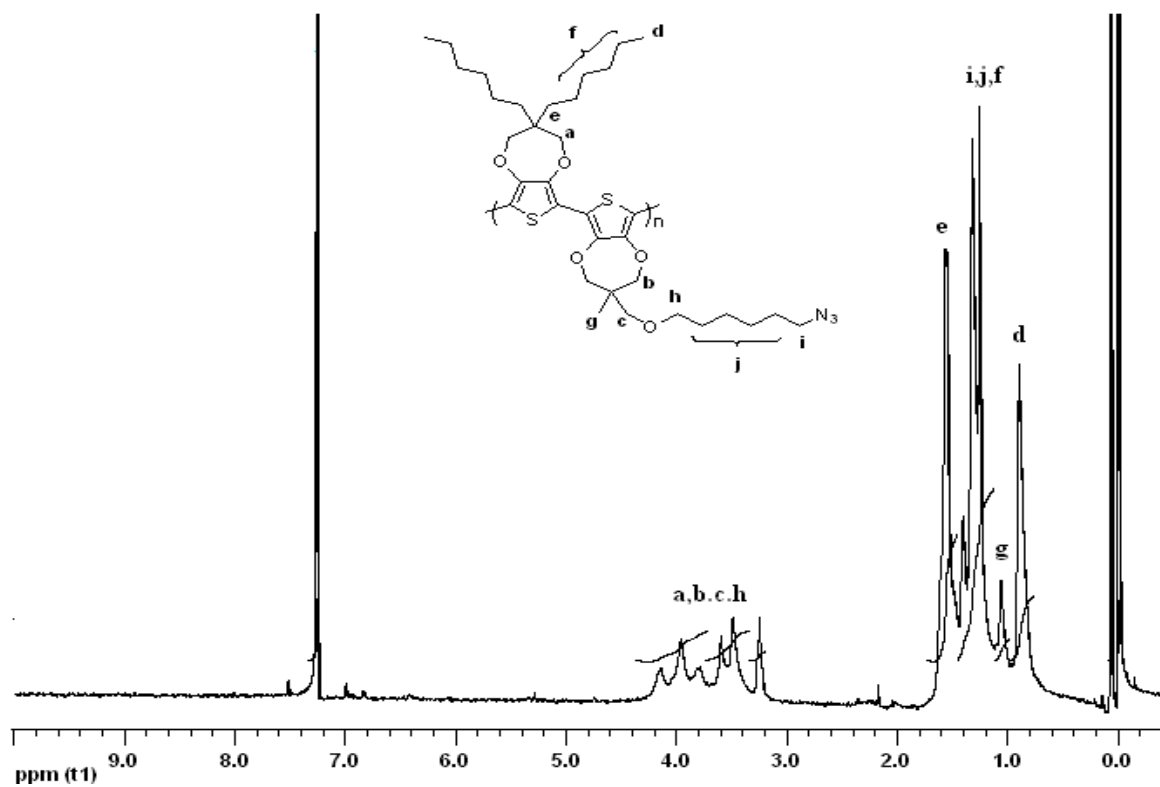


Figure 9. ^1H NMR of P3e in CDCl_3

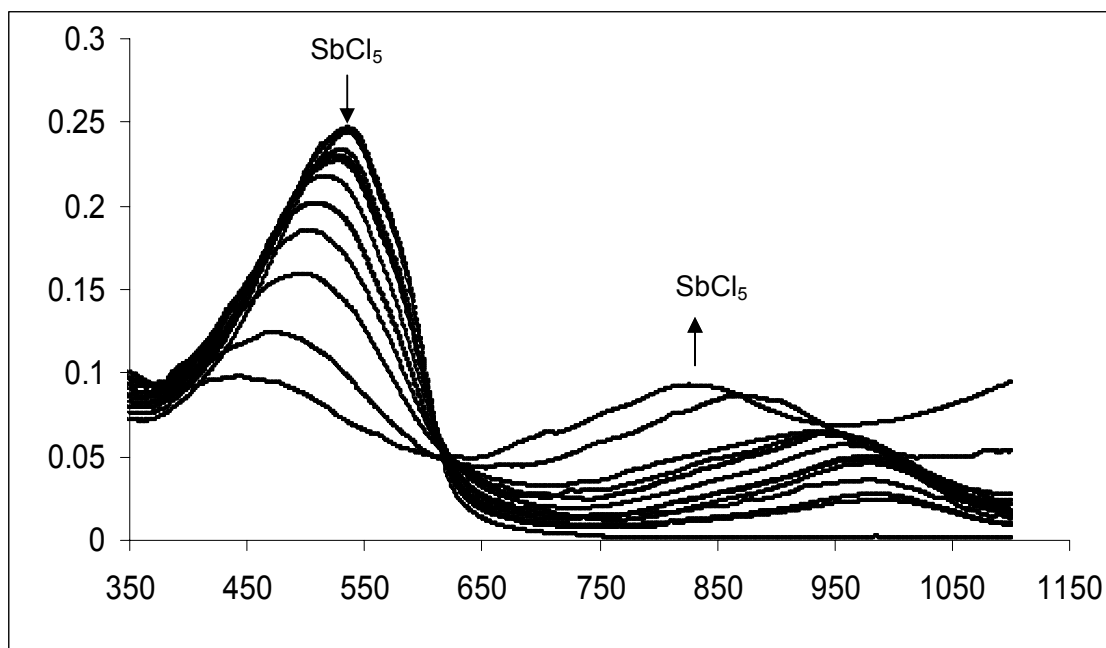


Figure 10: Solution doping of P1a in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.

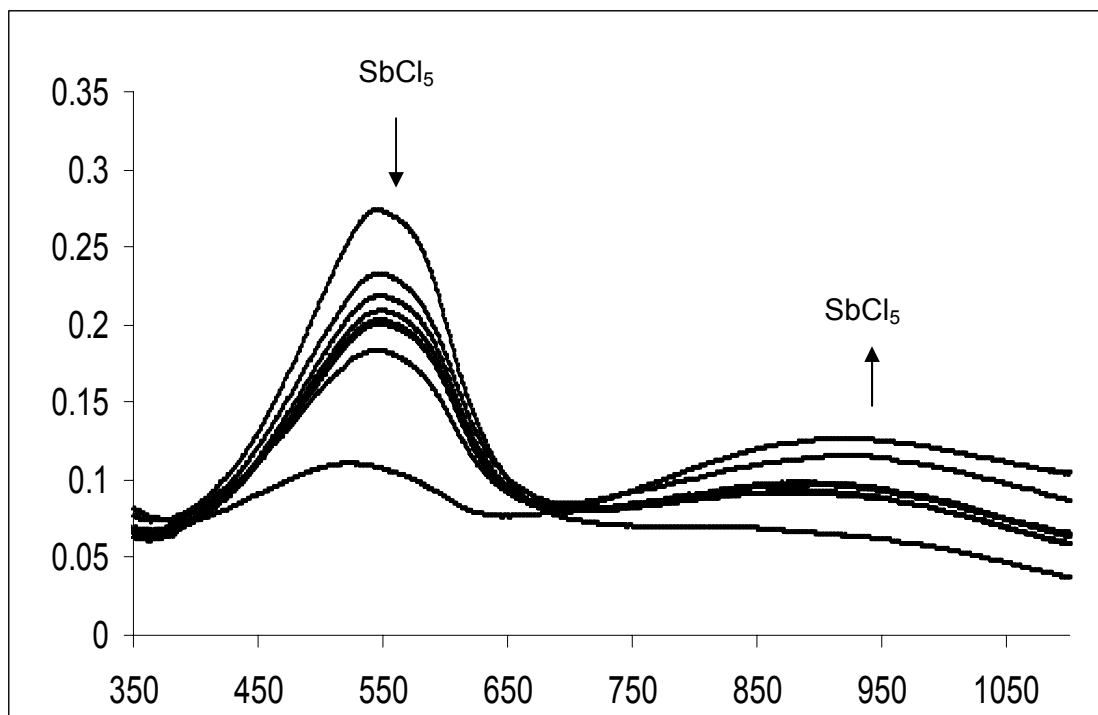


Figure 11 : Solution doping of P3a in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.

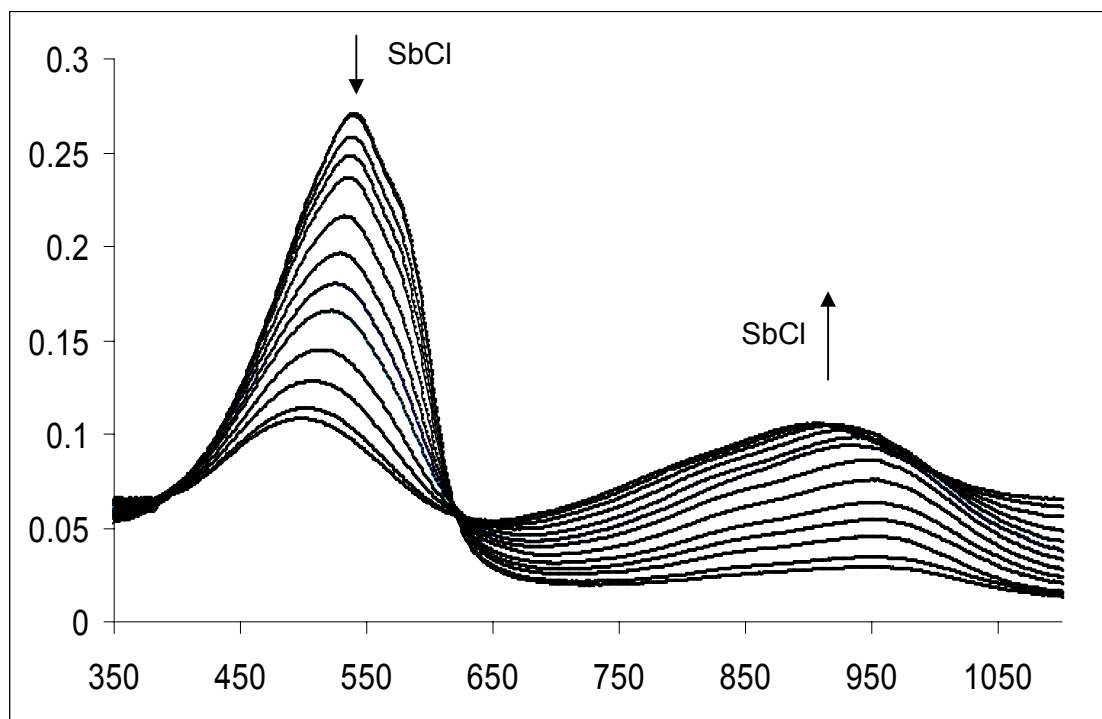


Figure 12 : Solution doping of P3b in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.

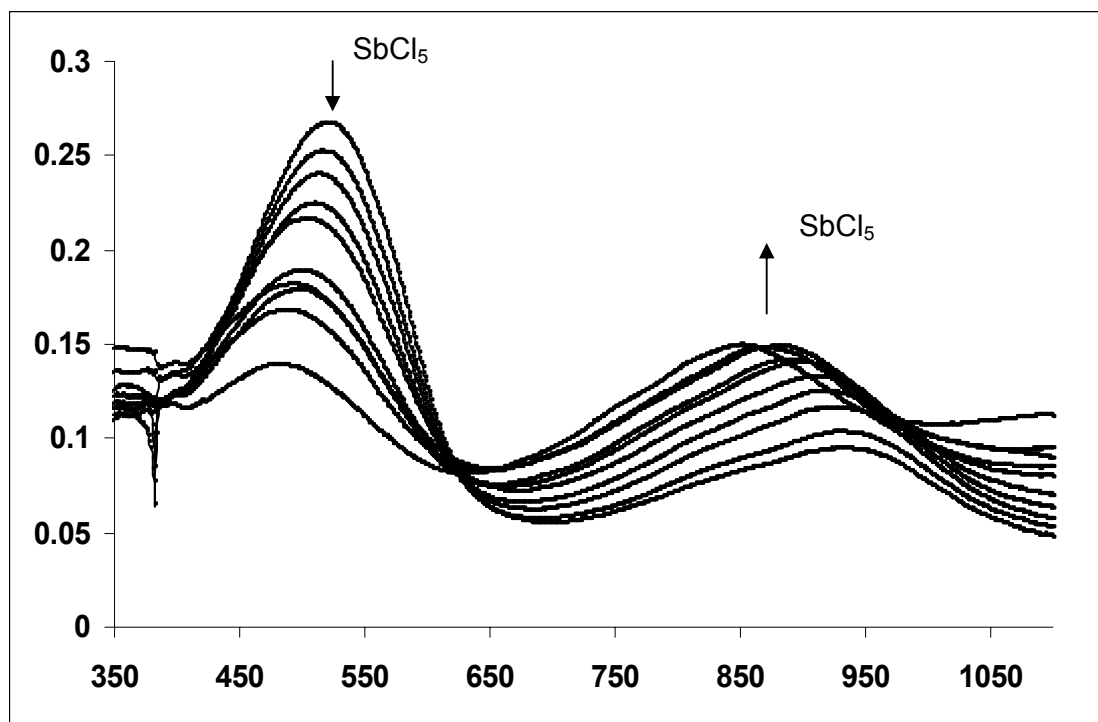


Figure 13 : Solution doping of P3c in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.

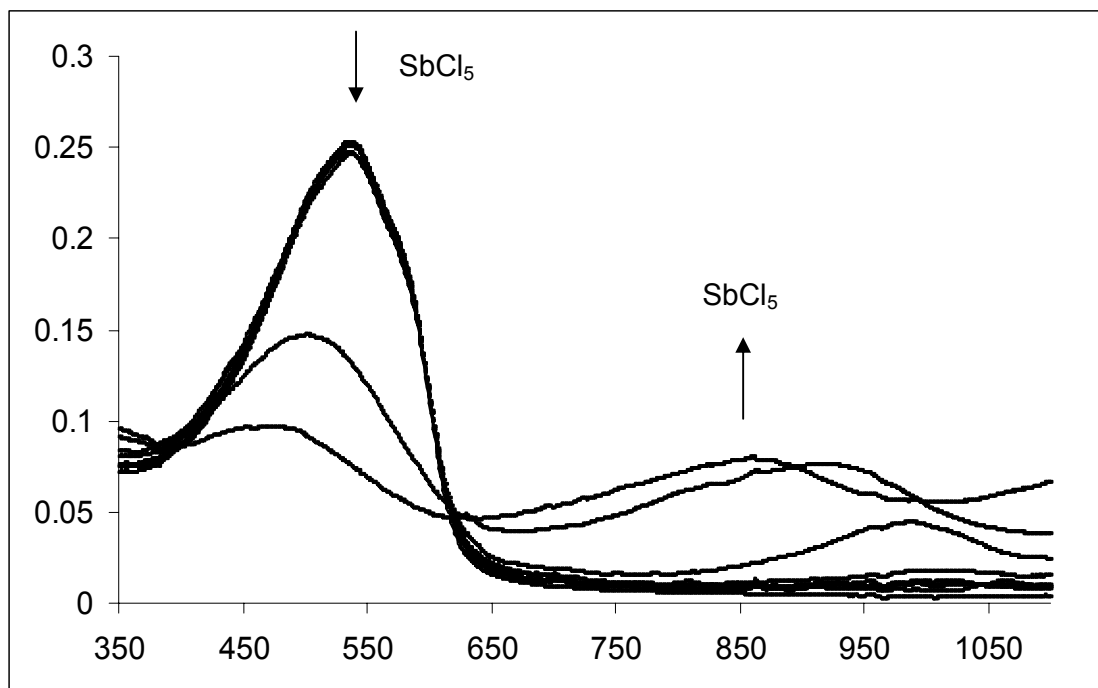


Figure 14 : Solution doping of P3d in CHCl_3 using SbCl_5 as studied by UV-vis Spectroscopy.

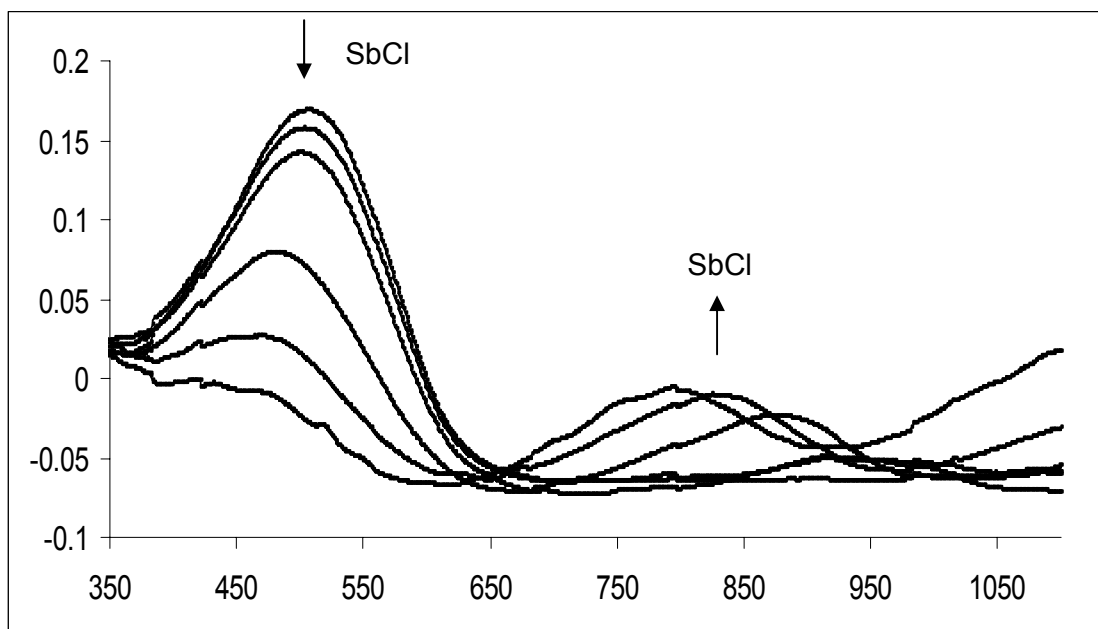


Figure 15: Solution doping of P3e in CHCl₃ using SbCl₅ as studied by UV-vis Spectroscopy.