

Supporting Information

N-Methylpyrrole-terminated Polyisobutylene Through End-quenching of Quasiliving Carbocationic Polymerization

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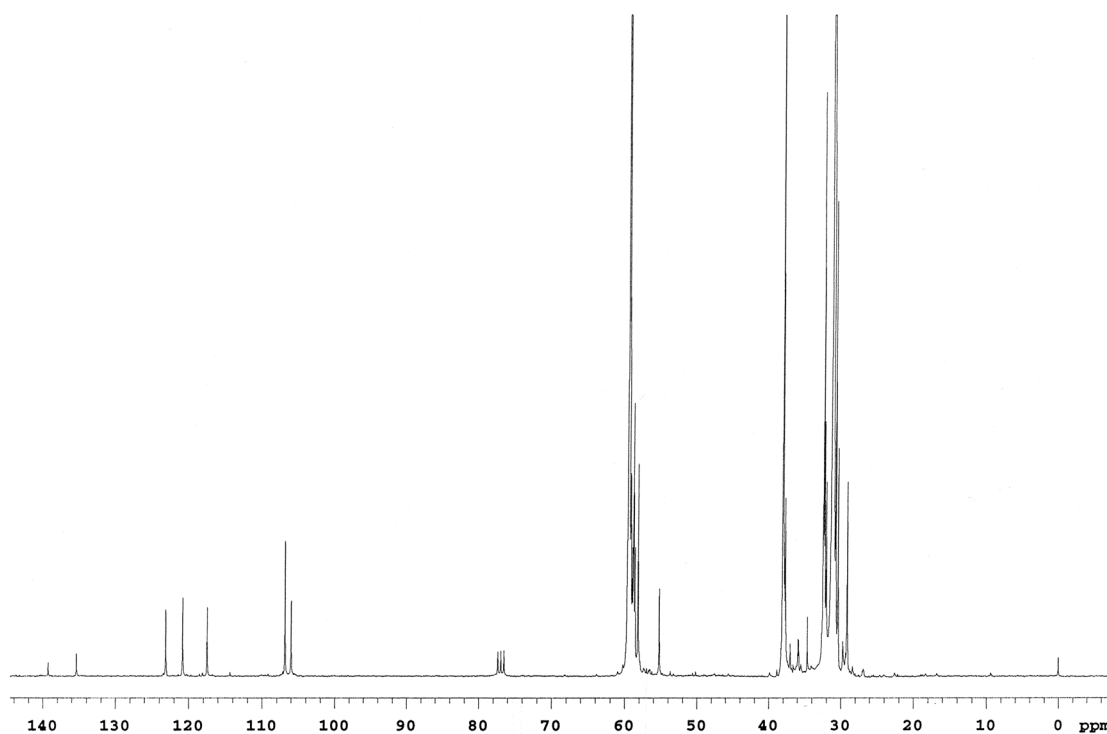


Figure 1. ^{13}C NMR spectrum of 2- and 3-PIB-N-methylpyrrole.

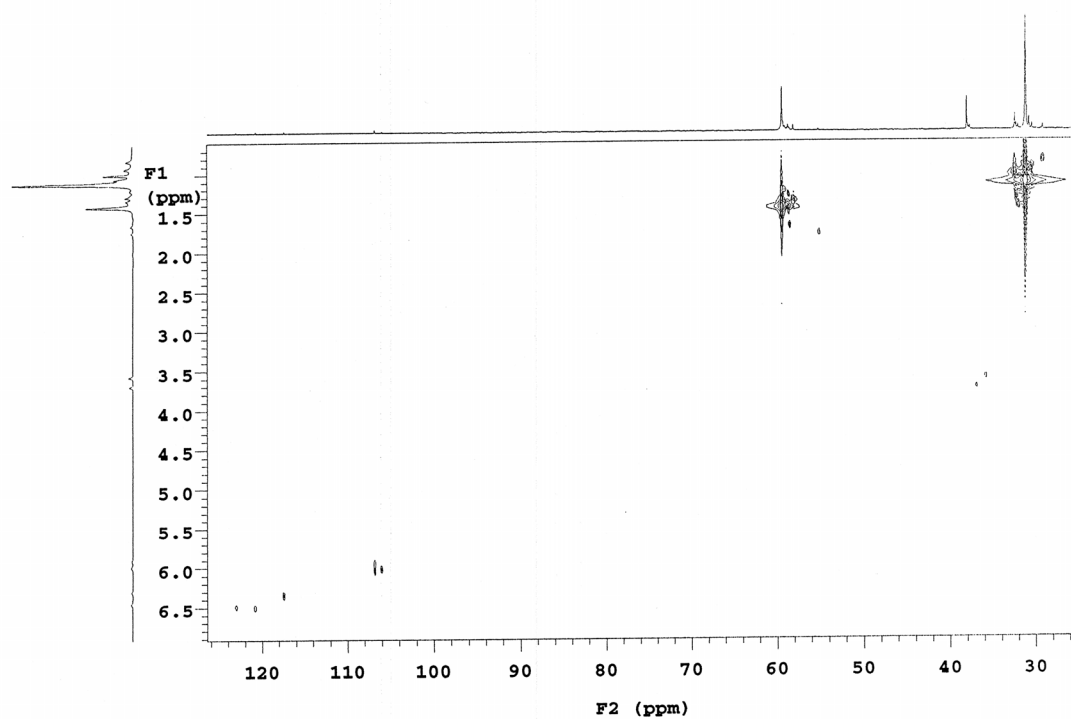


Figure 2. ^1H - ^{13}C heteronuclear correlation (HETCOR) NMR spectrum of 2- and 3-PIB-N-methylpyrrole.

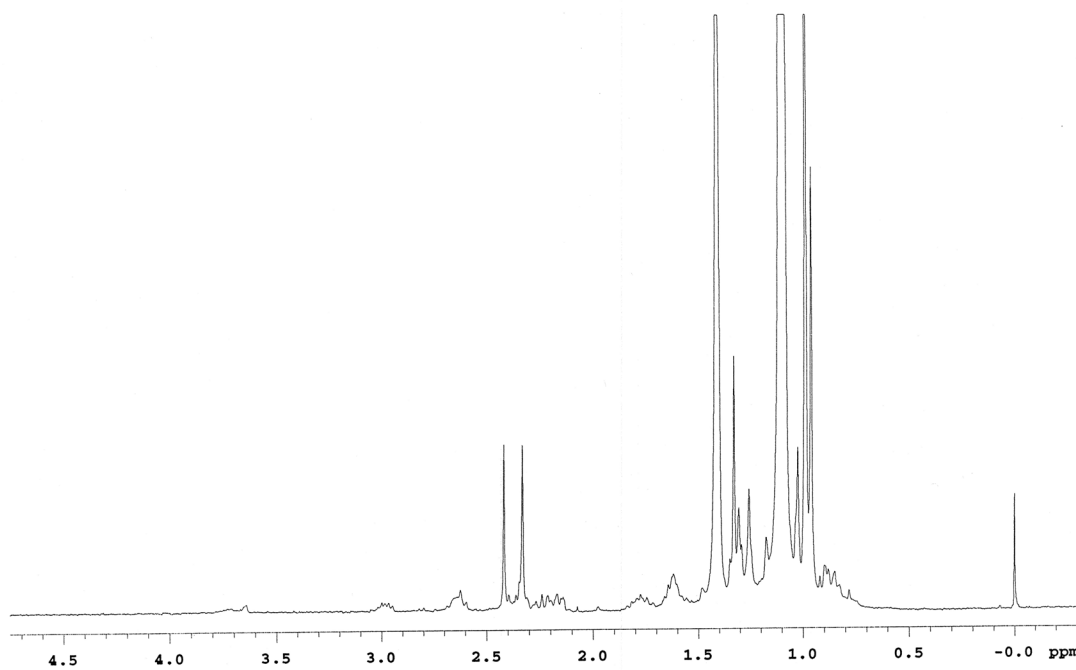


Figure 3. ^1H NMR spectrum of 2- and 3-PIB-N-methylpyrrolidine.

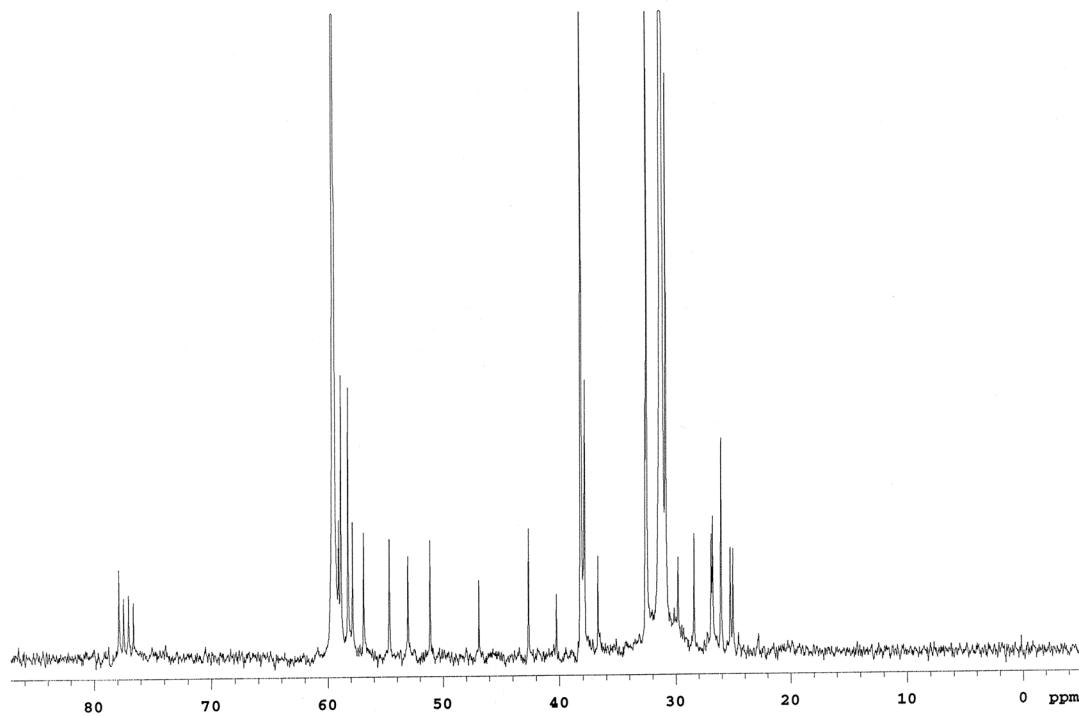


Figure 4. ^{13}C NMR spectrum of 2- and 3-PIB-N-methylpyrrolidine.

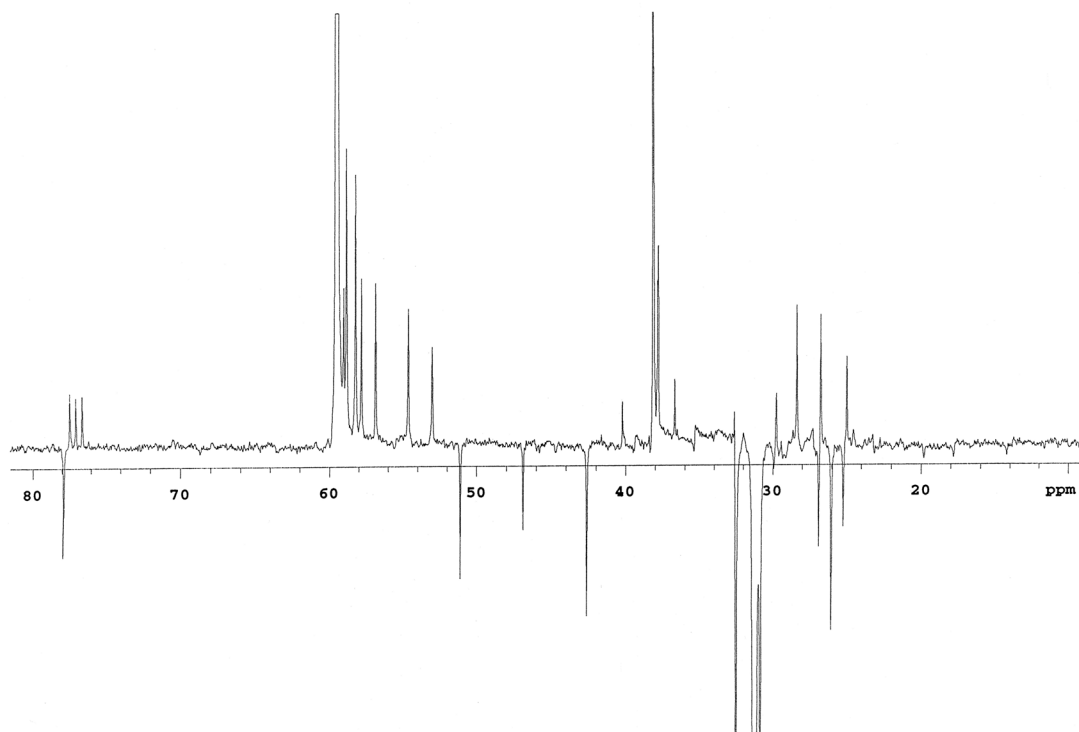


Figure 5. APT NMR spectrum of 2- and 3-PIB-N-methylpyrrolidine.

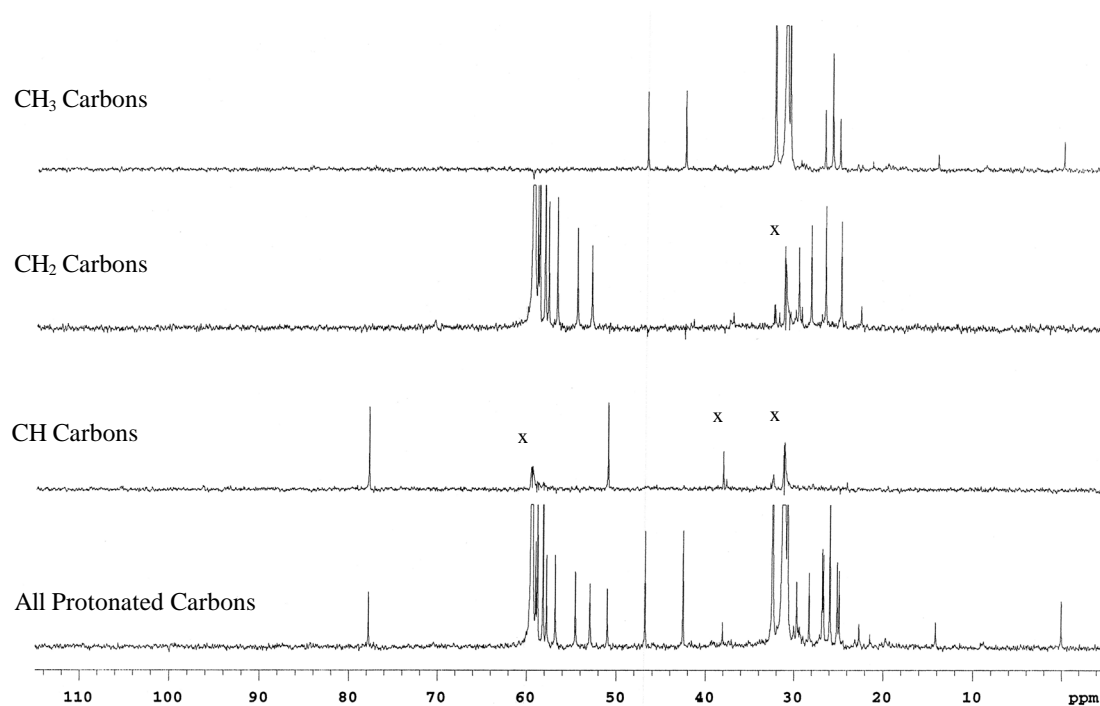


Figure 6. DEPT NMR spectrum of 2- and 3-PIB-N-methylpyrrolidine (x denotes spurious peaks resulting from poor subtraction of the edited spectra).

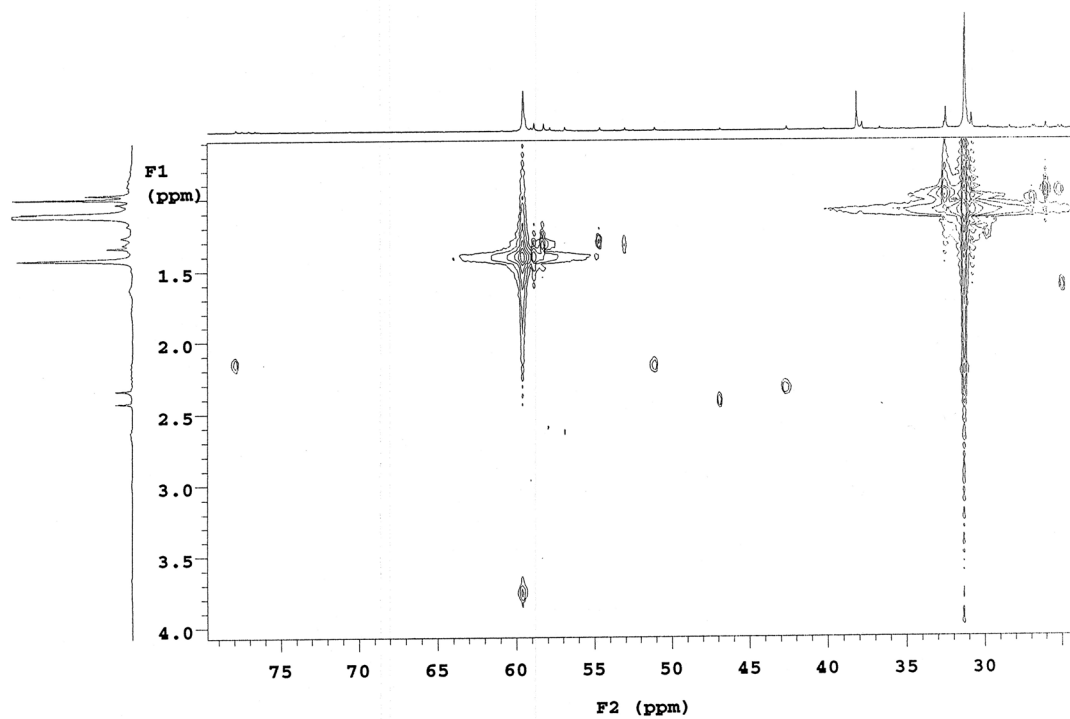


Figure 7. ¹H-¹³C heteronuclear correlation (HETCOR) NMR spectrum of 2- and 3-PIB-N-methylpyrrolidine.

Table 1. Partial Chemical Shift Assignment for 2- and 3-PIB-N-methylpyrrolidine

^{13}C Chemical Shift (ppm)	Assignment	^1H Chemical Shift (ppm)
77.78	CH	2.17, m
59.45	PIB-CH ₂	1.41, s
58.77	CH ₂	
58.14	CH ₂	
57.74	CH ₂	
56.78	CH ₂	
54.54	CH ₂	
52.92	CH ₂	
51.00	CH	2.17, m
46.78	N-CH ₃	2.42, s
42.51	N-CH ₃	2.33, s
40.13	C	
38.07	PIB-C	
36.59	C	
32.51	C	
32.40	CH ₃	
31.18	PIB-CH ₃	1.11, s
29.66	CH ₂	
28.27	CH ₂	
26.78	CH ₃	
26.66	CH ₂	
25.94	CH ₃	
25.12	CH ₃	
24.89	CH ₂	