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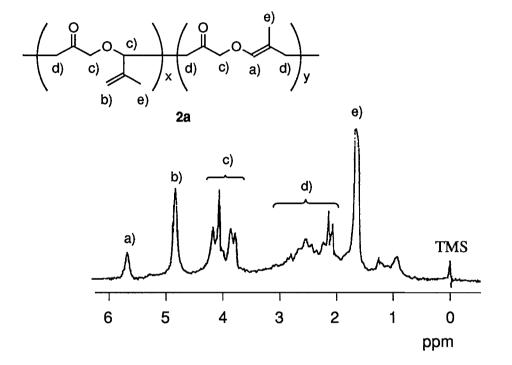


Figure S1. ¹H-NMR spectrum (90 MHz, $CDCl_3$) of **2a** obtained by photo-initiated cationic polymerization by **3** at ambient temperature for 1 h.

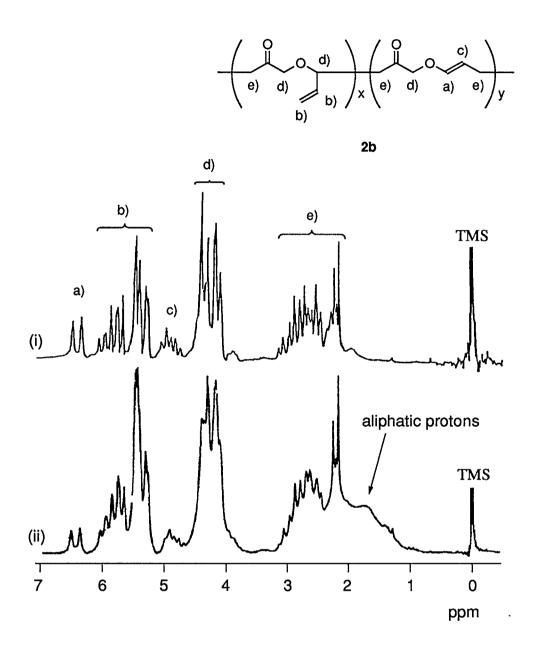
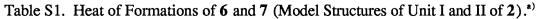
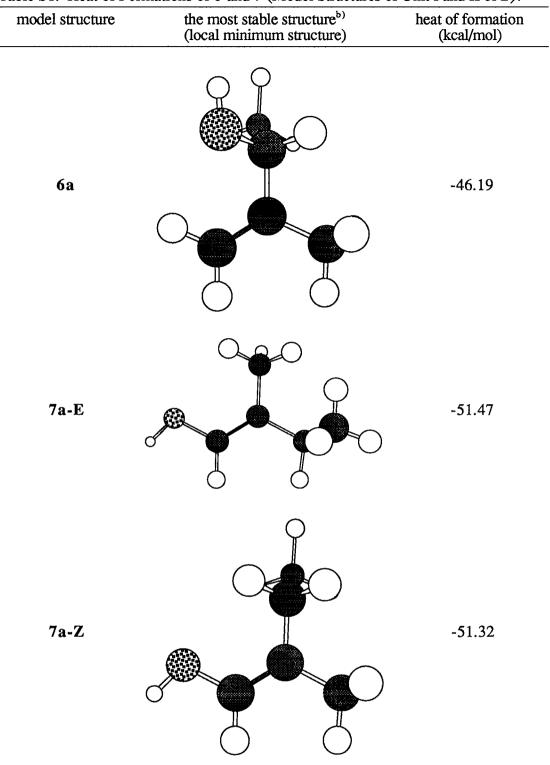


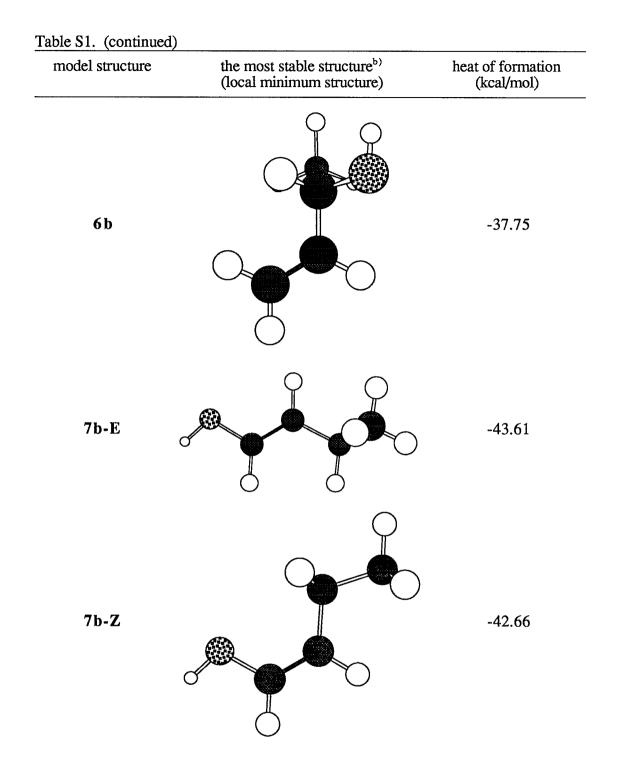
Figure S2. ¹H-NMR spectrum (90 MHz, CDCl₃) of **2b** obtained by (i) cationic polymerization initiated by methanesulfonic acid at -78 °C and (ii) photo-initiated cationic polymerization by **3** at ambient temperature for 1 h.

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a) Calculations were carried out using program MOPAC with PM3 hamiltonian with PRECISE key word. b) structures were placed as -C=C-C- plane was parallel to the paper.

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model	most stable structure ^{b)}	heat of formation		nt of LUMO
structure	(local minimum structure)	(kcal/mol)	α -position	γ-position
8a-E		118.12	0.7314	-0.5552
8a-Z		118.10	0.7352	-0.5529
8b-E		126.96	0.7170	-0.5688
		127.00	0.7284	-0.5581

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Table S2.	(Continued)
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model	most stable structure ^{b)}	heat of formation	coefficient of LUMO	
structure	(local minimum structure)	(kcal/mol)	α -position	γ-position
8b-Z		128.07	0.7266	-0.5646

a) Calculations were carried out using program MOPAC with PM3 hamiltonian with PRECISE key word. b) structures were placed as $-C=C-C^+$ plane was parallel to the paper.