Macromolecules

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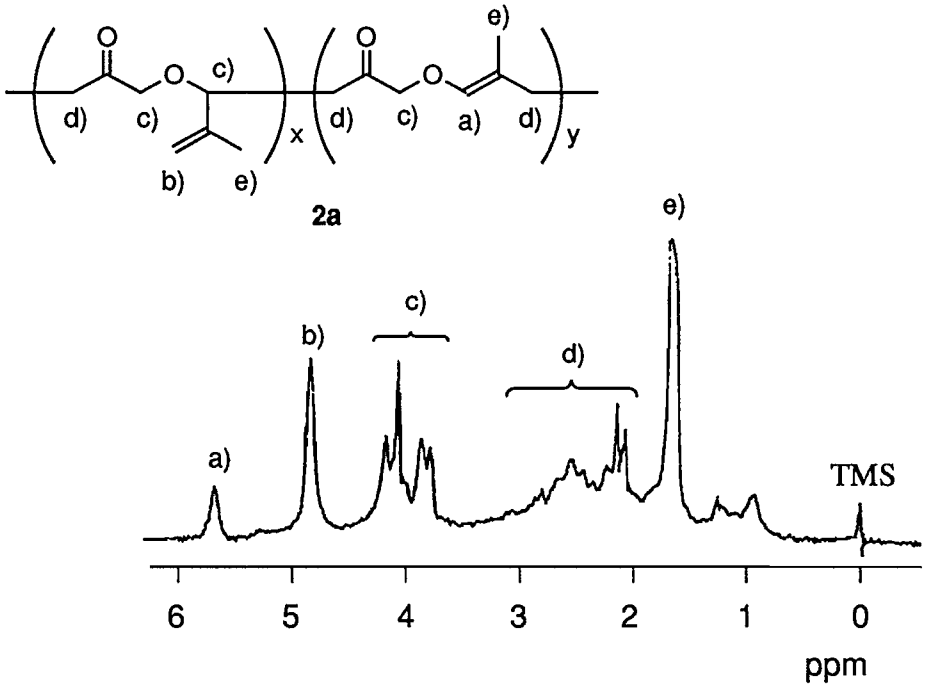


Figure S1. ^{1}H-NMR spectrum (90 MHz, $CDCl_3$) of **2a** obtained by photo-initiated cationic polymerization by **3** at ambient temperature for 1 h.

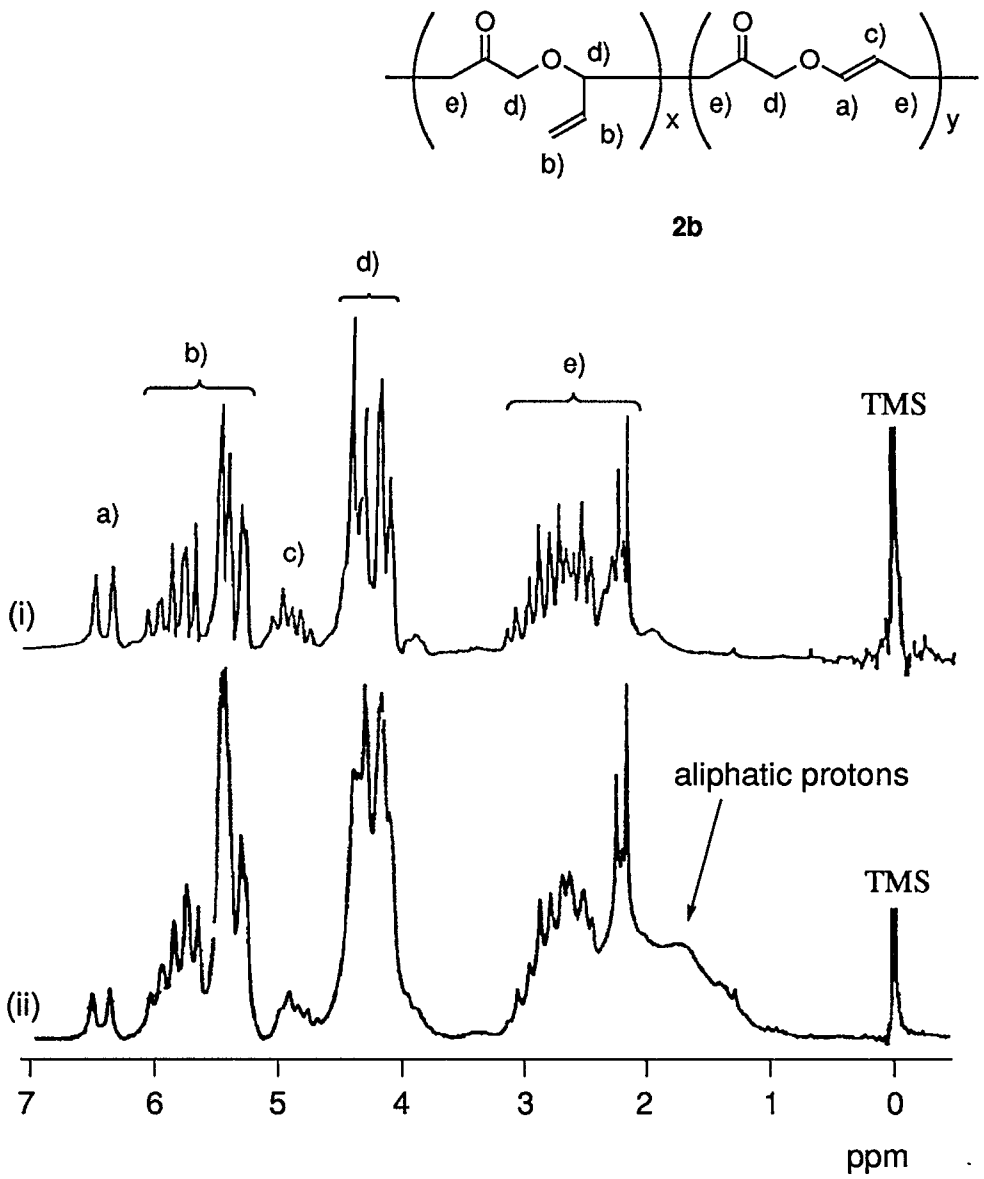


Figure S2. ^{1}H-NMR spectrum (90 MHz, $CDCl_3$) of **2b** obtained by (i) cationic polymerization initiated by methanesulfonic acid at -78 °C and (ii) photo-initiated cationic polymerization by **3** at ambient temperature for 1 h.

Table S1. Heat of Formations of **6** and **7** (Model Structures of Unit I and II of **2**).[a)]

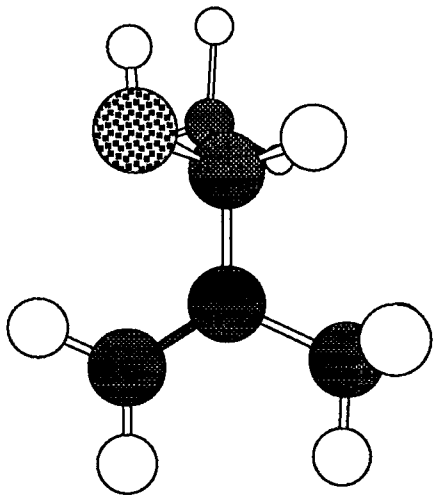
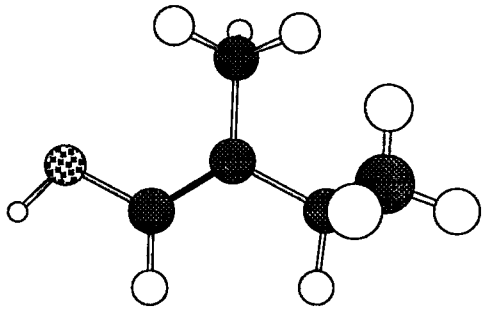
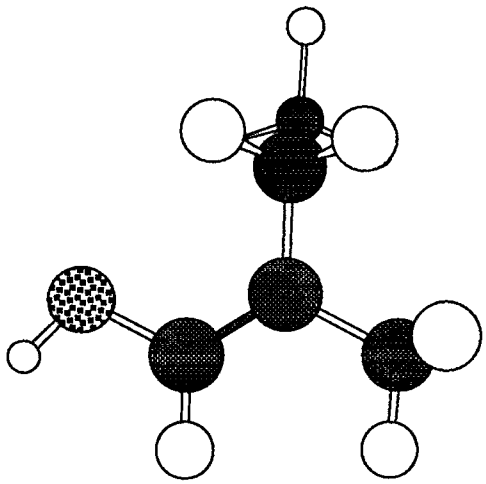
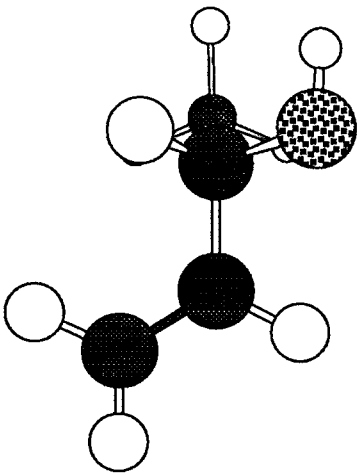
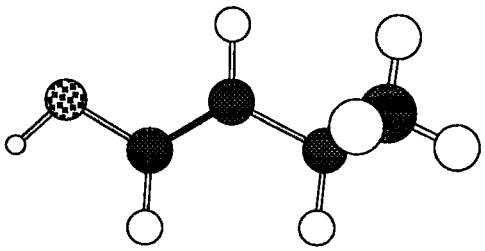
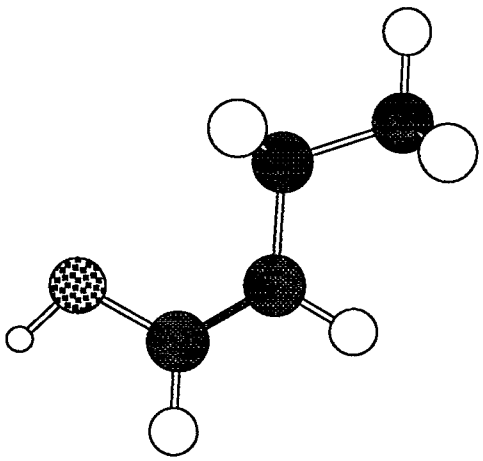
model structure	the most stable structure[b)] (local minimum structure)	heat of formation (kcal/mol)
6a		-46.19
7a-E		-51.47
7a-Z		-51.32

Table S1. (continued)

model structure	the most stable structure[b)] (local minimum structure)	heat of formation (kcal/mol)
6b		-37.75
7b-E		-43.61
7b-Z		-42.66

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.

Table S2. Coefficient of LUMO of **8** (Model Structure of Terminal Oxyallyl Cation **5**).[a)]

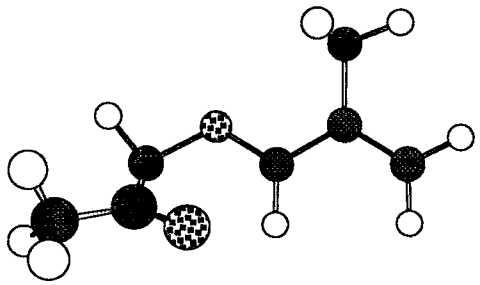
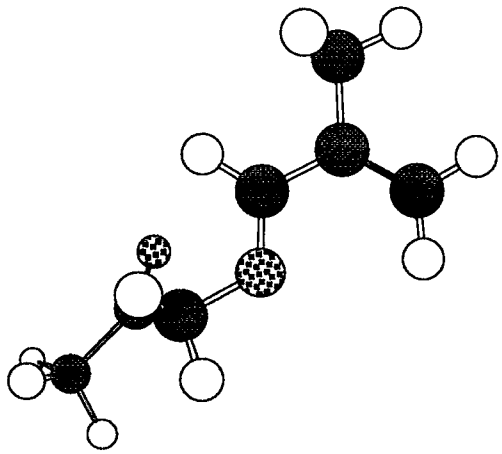
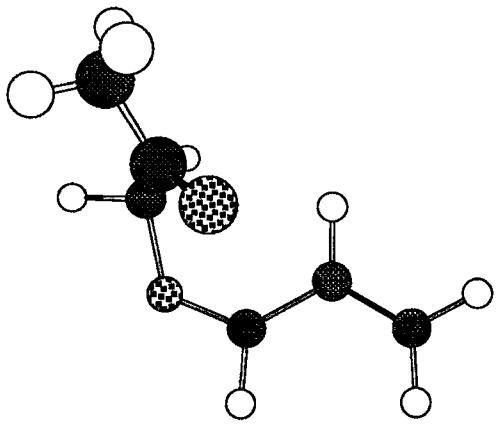
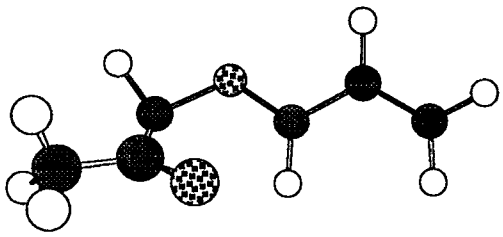
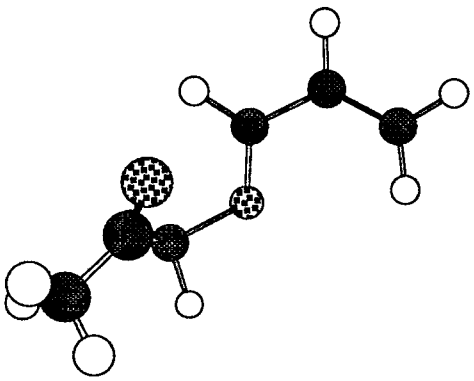
model structure	most stable structure[b)] (local minimum structure)	heat of formation (kcal/mol)	coefficient of LUMO α-position	coefficient of LUMO γ-position
8a-E		118.12	0.7314	-0.5552
8a-Z		118.10	0.7352	-0.5529
8b-E		126.96	0.7170	-0.5688
		127.00	0.7284	-0.5581

Table S2. (Continued)

model structure	most stable structure[b)] (local minimum structure)	heat of formation (kcal/mol)	coefficient of LUMO α-position	coefficient of LUMO 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.