## **Supplementary Material**

# Synthesis of β-damascone from 2,6-dimethylcyclohexanone

## Pauline Chaumont-Olive,<sup>a</sup> Kristína Plevová,<sup>a,b</sup> Ana María Collado Pérez,<sup>c</sup> Jorge Sánchez-Quesada,<sup>c</sup> Radovan Šebesta,<sup>b</sup> and Janine Cossy<sup>\*a</sup>

<sup>a</sup>Molecular, Macromolecular Chemistry and Materials, ESPCI Paris, PSL University, CNRS, 75005 Paris Cedex 05, France <sup>b</sup>Comenius University in Bratislava, Faculty of Natural Sciences, Department of Organic Chemistry, Mlynská dolina, Ilkovičova 6, 842 15 Bratislava, Slovakia <sup>c</sup>IFF Benicarló, Technical Department, Av. de Felipe Klein, 2, 12580 Benicarló, Castellón, Spain Email: <u>janine.cossy@espci.fr</u>

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# <sup>1</sup>H and <sup>13</sup>C NMR spectra



<sup>'1</sup>H-NMR spectra of 2,2,6-Trimethylcyclohexan-1-one (2).



<sup>13</sup>C-NMR spectra of 2,2,6-Trimethylcyclohexan-1-one (**2**).



<sup>1</sup>H-NMR spectra of 1-Ethynyl-2,2,6-trimethylcyclohexan-1-ol (**3**) – major diastereomer.



<sup>13</sup>C-NMR spectra of 1-Ethynyl-2,2,6-trimethylcyclohexan-1-ol (**3**) – major diastereomer.



<sup>1</sup>H-NMR spectra of 1-Ethynyl-2,2,6-trimethylcyclohexan-1-ol (**3**) – minor diastereomer.



<sup>13</sup>C-NMR spectra of 1-Ethynyl-2,2,6-trimethylcyclohexan-1-ol (**3**) – minor diastereomer.

### **General Papers**



<sup>1</sup>H-NMR spectra of 1-(2,2,6-Trimethylcyclohex-1-en-1-yl)ethan-1-one (4).



<sup>13</sup>C-NMR spectra of 1-(2,2,6-Trimethylcyclohex-1-en-1-yl)ethan-1-one (4).



 $^1\text{H-NMR}$  spectra of  $\beta\text{-Damascone}.$ 



 $^{13}\mbox{C-NMR}$  spectra of  $\beta\mbox{-Damascone}.$ 



<sup>1</sup>H-NMR spectra of 2,2,6-Trimethylcyclohexylidene hydrazone (6).



<sup>13</sup>C-NMR spectra of 2,2,6-Trimethylcyclohexylidene hydrazone (6).

### **General Papers**



<sup>1</sup>H-NMR spectra of 2-lodo-1,3,3-trimethylcyclohex-1-ene (7).



<sup>13</sup>C-NMR spectra of 2-Iodo-1,3,3-trimethylcyclohex-1-ene (7).



<sup>1</sup>H-NMR spectra of 2,6,6-Trimethylcyclohex-1-ene-1-carbaldehyde (8).



<sup>13</sup>C-NMR spectra of 2,6,6-Trimethylcyclohex-1-ene-1-carbaldehyde (8).

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<sup>1</sup>H-NMR spectra of Methyl 2,6,6-trimethylcyclohex-1-ene-1-carboxylate (9).



<sup>13</sup>C-NMR spectra of Methyl 2,6,6-trimethylcyclohex-1-ene-1-carboxylate (9).



<sup>1</sup>H-NMR spectra of 2,6,6-Trimethylcyclohex-1-ene-1-carboxylic acid (10).



<sup>13</sup>C-NMR spectra of 2,6,6-Trimethylcyclohex-1-ene-1-carboxylic acid (**10**).