

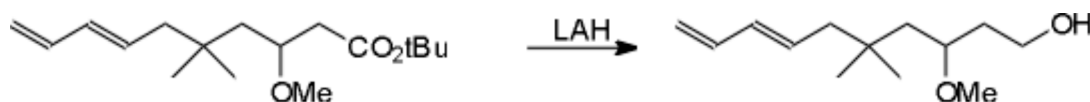
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### 3-Methoxy-5,5-dimethyl-7(E),9-decadien-1-ol

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**Scheme**

To a slurry of LAH (65 mg, 1.7 mmol) in ether (4 ml) at 0 °C under Ar, the diene ester [1] (487 mg, 1.7 mmol) in ether (5 ml) was added dropwise. After addition was complete, the reaction was quenched with sat aq Na<sub>2</sub>SO<sub>4</sub>. The solution was filtered and the solids were washed with ether (5 x 10 ml). The combined organic layers were dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to give, after flash chromatography (1 : 1 pet ether : ether) the title alcohol as a colorless oil, 354 mg, in 97 percent yield.

<sup>1</sup>H NMR (CDCl<sub>3</sub>): δ: 6.29 (dt, J = 16.9, 10.3Hz, 1H), 6.01 (dd, J = 15.3, 10.7Hz, 1H), 5.71 (dt, J = 15.3, 7.5Hz, 1H), 5.12 (d, J = 16.9Hz, 1H), 4.93 (d, J = 10.3Hz, 1H), 3.81 (m, 1H), 3.69 (m, 1H), 3.48 (m, 1H), 3.30 (s, 3H), 2.37 (bm, 2H), 1.99 (d, J = 7.6Hz, 2H), 1.88 (m, 1H), 1.60 (m, 2H), 1.28 (dd, J = 14.7, 4.0Hz, 1H), 0.90 (s, 3H), 0.88 (s, 3H).

IR (CH<sub>2</sub>Cl<sub>2</sub>): 3610, 3490, 2930, 1645, 1600, 1460, 1420, 1385, 1075, 1005, 895.

MS (m/e): 212 (M<sup>+</sup>, 8), 197, 180, 167, 143, 136, 124, 108, 89 (100).

HRMS: calc. for C<sub>13</sub>H<sub>24</sub>O<sub>2</sub>: 212.1776; found: 212.1774.

### References and Notes

1. Smith, D. *tert*-Butyl 3-methoxy-5,5-dimethyl-7(E),9-decadienoate *Molecules* **1997**, *2*, M34.

*Sample Availability*: No sample available.

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