

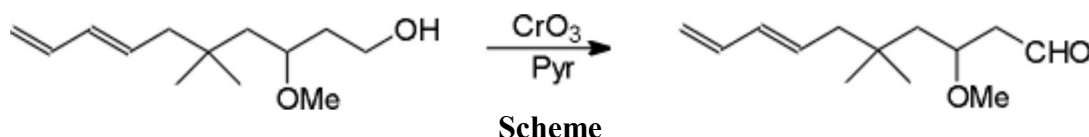
Molecules **1997**, *2*, M36

3-Methoxy-5,5-dimethyl-7(E),9-decadienal

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Using the Collins oxidation procedure previously described [1], the title aldehyde was prepared from the diene alcohol [2] as a colorless oil in 76% yield.

¹H NMR (CDCl₃): d: 9.78 (t, J = 2.2Hz, 1H), 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), 3.76 (m, 1H), 3.29 (s, 3H), 2.59 (bs, 1H), 2.56 (bs, 1H), 2.0 (dd, J = 7.3, 2.9Hz, 1H), 1.57 (dd, J = 14.6, 7.9Hz, 1H), 1.26 (dd, J = 14.6, 3.3Hz, 1H), 0.92 (s, 3H), 0.89 (s, 3H).

IR (CDCl₃): 2955, 2930, 2825, 1720, 1600, 1460, 1360, 1105, 1070, 1005, 880.

MS (m/e): 210 (M⁺, 3), 192, 141, 134, 111, 108, 99, 93, 87 (100), 59.

HRMS: calc. for C₁₃H₂₂O₂: 210.1620; found: 210.1619.

References and Notes

1. Smith, D. tert-Butyl-3-methoxy-5,5-dimethyl-7-oxo-heptanoate, *Molecules* **1997**, *2*, M32.
2. Smith, D. 3-Methoxy-5,5-dimethyl-7(E),9-decadien-1-ol, *Molecules* **1997**, *2*, M35.

Sample Availability: No sample available.

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