To a stirred solution of a mixture of E/Z isomers 1 (81 mg, 0.22 mmol, 45:55 ratio) in acetone (5 mL) was added a mixture of KMnO₄ (122 mg, 0.77 mmol) and anhydrous MgSO₄ (120 mg) at 10 ºC [1]. After stirring for 10 min reaction was allowed to warm to room temperature. Then another portion of KMnO₄ (25 mg, 0.16 mmol) and anhydrous MgSO₄ (25 mg) was added. After 20 min the crude was filtered over Celite and the clean solution evaporated under reduced pressure to yield a residue which was solved in Et₂O (25 mL). This solution was washed with brine (3×10 mL), dried over anhydrous Na₂SO₄ and the solvent evaporated under reduced pressure to yield a residue (61 mg) which was purified by flash chromatography on silica gel, using a 2:3 hexane/Et₂O mixture as eluent, to give the title compound 2 (50 mg, 0.16 mmol, 73%).

Mp: 66.0-67.4 ºC (white crystals, from hexane).

[a]D = -22.3º (c 1.01 cg·mL⁻¹, CHCl₃).

IR (KBr, n, cm⁻¹): 1722, 1198, 1165 (OOCH), 1696 (CO).

¹H NMR (300 MHz, CDCl₃, d, ppm): 0.79 (3H, s, Me₆-4), 0.86 (3H, s, Me-10), 0.88 (3H, s, Me₆-4), 1.52 (3H, s, Me-8), 2.13 (3H, s, Me-13), 0.93-1.84 (13H, m, H₁,2,3,5,6,7a,9,11), 2.43-2.69 (3H, m, Hb₇, H₁₂), 8.02 (1H, s, OOC).

¹³C NMR (75 MHz, CDCl₃, d, ppm): 39.48 (C₁), 18.17 (C₂), 41.67 (C₃), 33.04 (C₄), 55.50 (C₅), 19.87 (C₆), 39.48 (C₇), 88.99 (C₈), 57.95 (C₉), 39.48 (C₁₀), 19.26 (C₁₁), 46.37 (C₁₂), 208.98 (C₁₃), 29.78 (C₁₆), 21.03 (C₁₇), 33.21 (C₁₈), 21.32 (C₁₉), 15.42 (C₂₀), 160.28 (OOC).

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References and Notes

*Sample availability:* Available from the authors and from MDPI

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