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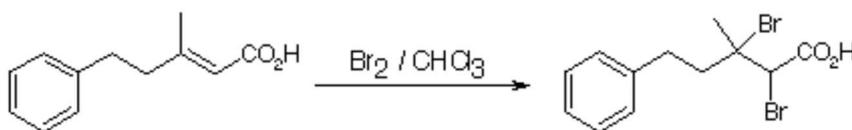
2(S,R),3(R,S)-2,3-Dibromo-3-methyl-5-phenyl-2-pentanoic Acid

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The general part of the experimental section [1] has been presented elsewhere. To a stirred solution of (*E*)-3-methyl-5-phenyl-2-pentenoic acid (2.26 g, 12 mmol) in dry chloroform (50 ml) was added a solution of bromine (0.75 ml, 15 mmol) in dry chloroform (5 ml) dropwise. The mixture was stirred at room temperature for 16 hours and evaporated under reduced pressure to yield 2(*S,R*),3(*R,S*)-2,3-dibromo-3-methyl-5-phenyl-2-pentenoic acid (4.18 g, 100%) as yellow plates from chloroform/light petroleum.

M.p. 115-8°

UV (ethanol) 206 (11360) nm.

IR (CDCl₃) 3260-2758(bs, OH), 1728 (s, C=O) cm⁻¹.

¹H-NMR (90 MHz, CDCl₃) 2.03-2.40 (2H, m, CH₂), 2.06 (3H, s, CH₃), 2.70-3.03 (2H, m, CH₂), 4.66 (1H, s, -CHBr), 7.02-7.40 (5H, m, ArH), 10.22 (1H, bs, COOH).

¹³C-NMR (15 MHz, CDCl₃) 26.75 (CH₃), 31.88, 45.91 (CH₂), 51.75 (CHBr), 65.77 (C3), 126.3, 128.5, 128.6 (ArCH), 140.5 (quat, C1'), 172.2 (quat, C1).

EI-MS 352(M⁺+4, 3%), 350(M⁺+2, 6), 348 (M⁺, 4), 146(40), 145(68), 143(36), 131(40), 129(36), 128(37), 115(30), 105(30), 103(30), 92(49), 91(100).

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References and Notes

1. Moloney, M.G.; Pinhey, J.T.; Stoermer, M.J. "Vinyl Cation Formation by Decomposition of Vinyl-lead Triacetates. The reactions of Vinylmercury and Vinyltin Compounds with Lead Tetraacetate." *J. Chem. Soc. Perkin Trans. 1* **1990**, *10*, 2645.

Sample Availability: No sample available.

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