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

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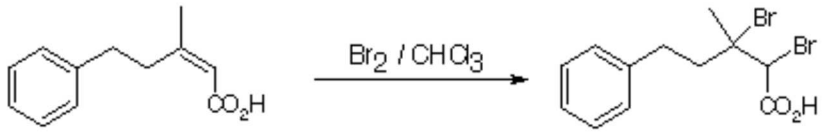

The general part of the experimental section [1] has been presented elsewhere. To a stirred solution of (*Z*)-3-methyl-5-phenyl-2-pentenoic acid (0.575 g, 3 mmol) in dry chloroform (10 ml) was added a solution of bromine (0.2 ml, 4 mmol) in dry chloroform (3 ml) dropwise. The mixture was stirred at room temperature for 16 hours and evaporated under reduced pressure to yield 2(*R,S*),3(*S,R*)-2,3-dibromo-3-methyl-5-phenyl-2-pentenoic acid (1.05 g, 99%) as an orange solid.

M.p. 115-8°

UV (ethanol) 206 (11390) nm.

IR ($CDCl_3$) 3300-2800(bs, OH), 1723 (s, C=O) cm^{-1}.

^{1}H-NMR (90 MHz, $CDCl_3$) 1.81-3.14 (4H, m, 2xCH_2), 1.96 (3H, s, CH_3), 4.69 (1H, s, -CHBr), 6.96-7.44 (5H, m, ArH), 9.68 (1H, bs, COOH).

^{13}C-NMR (15 MHz, $CDCl_3$) 29.67 (CH_3), 32.40, 41.36 (CH_2), 54.93 (CHBr), 66.36 (C3), 126.1, 128.4, 128.4 (ArCH), 140.6 (quat, C1'), 172.3 (quat, C1).

EI-MS 352(M^++4, 1%), 350(M^++2, 2), 348 (M^+, 2), 146(17), 145(67), 143(27), 131(28), 129(35), 128(23), 115(16), 105(16), 103(13), 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.