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DIETHYL 2,5-DI [BENZYLOXY] TEREPHTHALATE

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DIETHYL 2,5-DI [BENZYLOXY] TEREPHTHALATE

Submitted by S. Wawzonek* and J. E. Durham
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Repeated fractional crystallization of the crude reaction mixture (9.1 g) from the benzylation of the disodium derivative of 2,5-dicarbethoxycyclohexane-1,4-dione [D. Y. Chang and M. C. Chan, J. Org. Chem., 39, 976 (1974)] gave 2.6 g of pure trans-2,5-dibenzyl-2,5-dicarbethoxycyclohexane-1,4-dione and 2.7 g of the pure cis-isomer, both known compounds. Preparative layer chromatography of the combined mother liquors on silica gel with methylene chloride as the developing solvent, yielded 0.09 g of diethyl 2,5-di[benzyloxy]terephthalate, mp. 95-96°; IR(Nujol) 5.95(CO); NMR(CDCl₃) δ1.30 (t, 6H, 2CH₂CH₃), 4.32 (q, 4H, 2CH₂CH₃), 5.10 (s, 4H, 2OCH₂), 7.10-7.50 (m, 2C₆H₅ and 2CH); m/e 434.

Anal. Calcd. for C₂₆H₂₆O₆: C, 71.86; H, 6.04.

Found: C, 72.21; H, 5.95.