

Benzyl *p*-Nitrophenylcarbonate

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A convenient method for the synthesis of benzyl *p*-nitrophenylcarbonate is described.

BENZYL *p*-nitrophenylcarbonate, being much more reactive than benzyloxycarbonyl chloride, is a useful reagent in peptide synthesis for benzyloxycarbonylation of amino- and hydrazine functions. This reagent has been used previously¹ but neither its physical data nor its method of preparation has been recorded. A convenient method has now been standardized for its synthesis.

A suspension of dry sodium *p*-nitrophenolate (4 g.) in anhydrous benzene (100 ml.) was treated with benzyloxycarbonyl chloride (4.5 g.) and the mixture refluxed for 1 hr under magnetic stirring and left overnight at room temperature. At the end, the mixture was stirred for 10 min. with pyridine (5 ml.) and the organic phase washed with water (3 × 50 ml.) and saturated sodium chloride, respectively, and dried (MgSO₄). The solvent was evaporated *in vacuo*, and the residue crystallized from a small volume of methanol to give benzyl *p*-nitrophenylcarbonate; m.p. 78-79°; yield 6 g. (87.8 per cent) (Found: C, 61.33; H, 4.18; N, 5.32. C₁₄H₁₁NO₅ (273.238) requires C, 61.53; H, 4.05; N, 5.13%).

References

1. NIEDRICH, H., *Chem. Ber.*, **98** (1965), 3451.