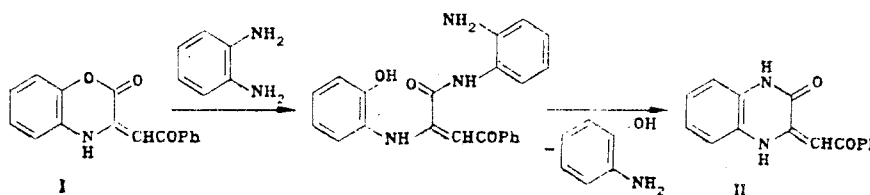


RECYCLIZATION OF 3-PHENACYLIDENE-3,4-DIHYDRO-2H-1,4-BENZOXAZIN-2-ONE UNDER THE INFLUENCE OF o-PHENYLENEDIAMINE

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We have established that refluxing 3-phenacylidene-3,4-dihydro-2H-1,4-benzoxazin-2-one (I) with o-phenylenediamine in dioxane for 12 h gives 3-phenacylidene-1,2,3,4-tetrahydro-2-quinoxalone (II) (89% yield), which was identified by comparison with a genuine sample [1]. The first step in the reaction is probably nucleophilic attack of the C₍₂₎=O group rather than transamination of the enamine fragment of benzoxazinone I, for which the absence of chromatographic traces of quinoxalone II after refluxing 3-phenacylidene-1-phenyl-1,2,3,4-tetrahydro-2-quinoxalone with o-phenylenediamine for many hours may serve as an indirect confirmation.



LITERATURE CITED

1. A. N. Maslivets, L. I. Smirnova, and Yu. S. Andreichikov, *Zh. Org. Khim.*, **24**, 2234 (1988).