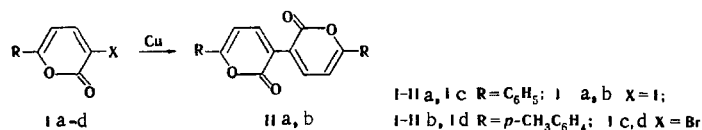


SYNTHESIS OF 3,3'-DI-2-PYRONYLS

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UDC 547.812.5'813.07:543.422.4.6

In the case of Ia-d it was shown that 3-bromo- and 3-iodo-6-aryl-2-pyrones undergo the Ullmann reaction to give the previously inaccessible 6,6'-diaryl-3,3'-di-2-pyronyls (IIa, b).



Some monopyrones are formed along with the dipyronyls.

Compounds Ia-d were heated with freshly activated copper in a ratio of 1:2 in a stream of nitrogen at 170-175° (for 1.5-2 h in the case of the iodides and for 5-6 h in the case of the bromides). The 6-aryl-2-pyrones were extracted with hot heptane; the 6,6'-diaryl-3,3'-di-2-pyronyls were extracted with hot chloroform and recrystallized from dimethylformamide. Compound IIa had mp 300-301.5°. The yields from Ia and Ib were 50 and 31%, respectively. Compound IIb had mp 310-311.5°. The yields from Ic and Id were 47.5 and 30%, respectively.

The structures of the compounds were confirmed by their IR spectra and spectra in the visible region and also by the results of elementary analysis for C and H.

Moscow Technological Institute of the Meat and Dairy Industry. Translated from *Khimiya Geterotsiklicheskikh Soedinenii*, No. 7, p. 998, July, 1976. Original article submitted December 30, 1975.

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