Yu. V. Maevskii and S. V. Sokolovskaya

UDC 547.824'828.07

In a study of the properties of dichloropentadienyl ketones we found that they form the corresponding 2-pyridone derivatives under the conditions of the Leuckart-Wallach reductive amination.

Thus 6-phenyl-2-pyridone with mp 196-197° (from benzene) (mp 197° [1]) was synthesized in 57% yield by heating 11 mmole of 1,1-dichloro-5-phenyl-1,3-pentadien-5-one with 56 mmole of formamide and 22 mmole of sodium bicarbonate at 160-170° for 6 h. Found %: C 77.17; H 5.25; N 8.35.  $C_{11}H_9NO$ . Calculated %: C 77.17; H 5.30; N 8.18. Similarly (by heating at 160-170° for 4.5 h), 6-(3,4-dimethoxyphenyl)-2-pyridone with mp 189-190° (from acetone) was obtained from 1,1-dichloro-5-(3,4-dimethoxyphenyl)-1,3-pentadien-5-one. Found %: C 67.00; H 5.50; N 6.02.  $C_{13}H_{13}NO_3$ . Calculated %: C 67.52; H 5.66; N 6.06. The synthesized compounds do not depress the melting points of samples of pyridones obtained from the appropriate 2-pyrones [2].

## LITERATURE CITED

- 1. J.A. Zeben, Ber., 29, 1673 (1896).
- 2. Yu. V. Maevskii and S. V. Sokolovskaya, Khim, Geterotsikl, Soedin, (1971) (in press).

Moscow Technological Institute of the Meat and Dairy Industry. Translated from Khimiya Geterotsiklicheskikh Soedinenii, No. 4, p. 567, April, 1971. Original article submitted August 18, 1970.

© 1973 Consultants Bureau, a division of Plenum Publishing Corporation, 227 West 17th Street, New York, N. Y. 10011. All rights reserved. This article cannot be reproduced for any purpose whatsoever without permission of the publisher. A copy of this article is available from the publisher for \$15.00.