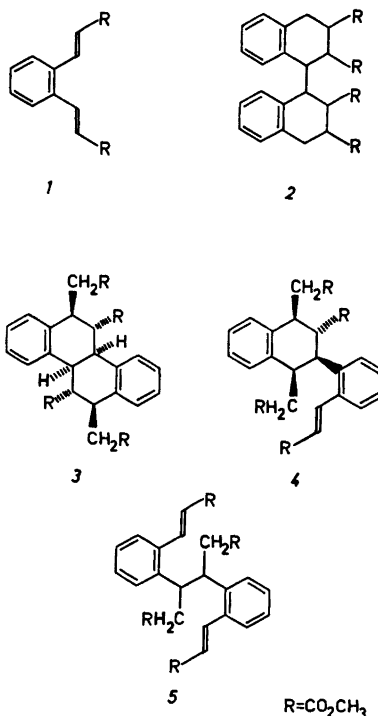


Salemink, C. A. *Recl. Trav. Chim. Pays-Bas* 88 (1969) 1263.

5. Feigl, F. *Spot Tests in Inorganic Analysis*, Elsevier, New York 1972, p. 388.
6. Broxton, T. J., Deady, L. W. and Pang, Y. T. *J. Am. Chem. Soc.* 99 (1977) 2268.
7. Emmert, B. and Groll, M. *Chem. Ber.* 86 (1953) 208.
8. Linstead, R. P. and Weedon, B. C. L. *Qualitative Organic Chemical Analysis*, Butterworths Scientific Publications, London 1956, p. 6.

Received November 21, 1977.

twenty isomeric forms (sixteen enantiomeric pairs and four *meso* forms). This prompted us to perform an X-ray crystallographic study<sup>2</sup> in order to establish the stereostructure of the hydrocyclodimer. It appeared that the previous structural assignment, based on NMR data, was wrong and that the correct structure is the even more interesting one of 3 (tetramethyl *cis*-4b,5,6,10b,11,12-hexahydrochrysene-*cis*-



## Electrohydrocyclodimerization of Dimethyl Benzene-1,2-diacrylate; Correction of the Structure of the Hydrocyclodimer

JAN ANDERSSON,<sup>a,\*</sup> LENNART EBERSON<sup>a</sup> and CHRISTER SVENSSON<sup>b</sup>

<sup>a</sup> Division of Organic Chemistry 1 and <sup>b</sup> Division of Inorganic Chemistry 2, Chemical Center, University of Lund, P.O. Box 740, S-220 07 Lund, Sweden

We have recently<sup>1</sup> commented upon the fact that the cathodic reduction of dimethyl benzene-1,2-diacrylate (1) seems to yield a single isomer of the hydrocyclodimer 2, in spite of the fact that it, in principle, can exist in

5,11-carboxylate-6,12-diacetate) which is indeed not easily distinguishable from 2 on the basis of the usual array of spectroscopic techniques.

In the course of preparing crystals suitable for X-ray analysis two other hydrodimers (comprising 38% of the total amount of hydrodimer; see Ref. 1) were isolated and subjected to an X-ray crystallographic study.<sup>2</sup> The one obtained from fractionated crystallization from ethyl acetate turned out to be 4 in which one ring closure has occurred whereas the one obtained from methanol had the structure of the simple hydrodimer, 5, as the *meso* form.

1. Andersson, J. and Ebersson, L. *Chem. Commun.* (1976) 565.
2. Albertsson, J., Oskarsson, Å. and Svensson, C. *Acta Crystallogr. To be published.*

Received January 7, 1978.

\* Present address: Department of Chemistry, University of Chicago, Chicago, Illinois, U.S.A.