

theory on the reactivation of inhibited acetylcholinesterase advanced by Wilson (8) may be examined more easily.

Clearly, the photolysis procedure described in this communication may be applicable to the isomerization of other heterocyclic aldoximes and their quaternary derivatives.

- (1) O'Brien, R. D., "Toxic Phosphorus Esters," Academic Press, New York, N. Y., 1960, pp. 102, 201.
- (2) Lüttringhaus, A., *et al.*, U. S. pat. 3,137,702 (June 16, 1964).
- (3) Hackley, B. E., Jr., Poziomek, E. J., and Steinberg, G. M., U. S. pat. 3,135,761 (June 2, 1964).
- (4) Ellin, R. I., and Wills, J. H., *THIS JOURNAL*, **53**, 995 (1964).
- (5) Poziomek, E. J., *et al.*, *J. Am. Chem. Soc.*, **83**, 3916 (1961).

(6) Poziomek, E. J., Ph.D. thesis, University of Delaware, Wilmington, Del., 1961.

(7) Amin, J. H., and De Mayo, P., *Tetrahedron Letters* **1963**, 1585.

(8) Wilson, I. B., *Federation Proc.*, **18**, 752(1959).

EDWARD J. POZIOMEK

Defensive Research Division
Chemical Research and Development Laboratories
U. S. Army Edgewood Arsenal
Edgewood Arsenal, Md.

Received November 18, 1964.

Accepted for publication December 10, 1964.

The author thanks 1st Lt. Lawrence Vaughan for obtaining the NMR spectra and Mr. Harold Klapper for allowing the use of an NMR spectrometer.

Support by the U. S. Army Edgewood Arsenal Chemical Research and Development Laboratories In-House Laboratory Independent Research Program is acknowledged.

Books

REVIEW

The National Formulary. 12th ed. Prepared by the Committee on National Formulary under the supervision of the Council, by the authority of the American Pharmaceutical Association. Published by the American Pharmaceutical Association, 1965. Distributed by Mack Publishing Co., Easton, Pa. xlv + 618 pp. 15 × 23 cm. Price \$10 (Domestic and Foreign).

The twelfth edition of the "National Formulary" represents an innovation in the history of the N.F. For the first time, inclusion of drugs and medicinal chemicals is based solely upon therapeutic merit. Formerly, the extent of use of a particular item was the primary basis of acceptance.

The 783 monographs, 248 of which are new admissions, cover a wide range of therapeutic classifications, and include many new drug entities as well as those whose value has been recognized for some time. In addition, the monographs, including many of those retained from previous editions, incorporate the latest improvements in analytical procedures which utilize recent technical and instrumental developments. These newer techniques make possible an important addition to the official specifications of certain tablets—a test for the uniformity of composition between individual units of the prepared dosage form. This new standard of formulation requires that assays be run on single tablets.

The value of N.F. XII as a reference is enhanced by the inclusion of tables of approximate and exact apothecary and metric equivalents, the latest (1961) table of atomic weights, thermometric equivalents in centigrade (Celsius) and Fahrenheit degrees, an alcoholometric table, a comprehensive synopsis of the federal regulations governing narcotic drugs, and a thorough index.

N.F. XII will be official from September 1, 1965.

NOTICES

Cellular Injury. Ciba Foundation Symposium. Edited by A. V. S. DERUECK and JULIE KNIGHT. Little, Brown and Company, Boston 6, Mass., 1964. xi + 403 pp. 13.5 × 21 cm. Price \$12.

Animal Behaviour and Drug Action. Ciba Foundation jointly with the Co-ordinating Committee for Symposia on Drug Action. Editor for the Co-ordinating Committee, HANNAH STEINBERG. Editors for the Ciba Foundation, A. V. S. DERUECK and JULIE KNIGHT. Little, Brown and Company, Boston 6, Mass., 1964. xiv + 491 pp. 14 × 21 cm. Price \$13.

Steroid Drugs. Vol. II. Index of Biologically Active Steroids. By NORMAN APPELZWEIG. Holden-Day, Inc., 728 Montgomery St., San Francisco, Calif., 1964. ix + 449 pp. 19 × 26 cm. Price \$10.50.

Progress in Industrial Microbiology. Vol. 5. Edited by D. J. HOCKENHULL. Gordon & Breach Science Publishers, 150 Fifth Ave., New York 11, N. Y., 1964. vii + 326 pp. 15.5 × 25 cm. Price \$13.50.

Aetiology of Diabetes Mellitus and its Complications. Ciba Foundation Colloquia on Endocrinology. Vol. XV. Edited by M. P. CAMERON and M. O'CONNOR. Little, Brown and Company, Boston 6, Mass., 1964. xiv + 405 pp. 14 × 21 cm. Price \$12.50.

Actions of Hormones on Molecular Processes. Edited by GERALD LITWACK and DAVID KRITCHEVSKY. John Wiley & Sons, Inc., 605 Third Ave., New York, N. Y., 1964. xi + 583 pp. 15 × 23 cm. Price \$17.