

Alcohol and adhering firmly to regulations adequate to safeguard legitimate alcohol and liquor. They insisted, however, that the proper functioning of business be not interfered with and that business be not obliged to take over policing activities or the func-

tions considered to be the duty of the Government.

The new regulations will not take effect until January 1st, and it is likely that the draft may be changed somewhat after receipt of the report of the council.

## BOOK NOTICES AND REVIEWS.

*Die Riechstoffe und ihre Derivate*, "Aromatic Bodies and Their Derivatives;" *Die Aldehyde*, Volume I, Part Two, edited by Director Alfred Wagner. A. Hartleben's Verlag, Wien and Leipzig, 1929; 362 pages; price, paper-bound, 25 marks.

The present monograph is one of a series of highly specialized treatises on perfumes and allied bodies, edited under the general directorship of Alfred Wagner, editor of the well-known journal, *Die Riechstoffindustrie*. The complete work is planned to consist of three large volumes, the first volume, in three parts, dealing with aldehydes of various kinds; the second volume dealing with phenols and phenol ethers; and the third dealing with alcohols and ethers. The monograph before us is the second part of the first volume and treats of aldehydes of the alicyclic series. This work has been prepared by three authors, Director Alfred Wagner, Chemist Alfons M. Burger and Professor F. Elze. The present work is one of the best of its kind inasmuch as it deals very extensively and in detail with every phase of perfume chemistry. This volume is devoted to the alicyclic aldehydes, and here we have a discussion not only of the common and well-known aldehydes employed in perfume chemistry, such as benzaldehyde, cuminaldehyde and cinnamic aldehydes, but also many rare ones. Eighty-five pages are devoted to the treatment of cyclic aldehydes with saturated side chains; seventy pages are devoted to aromatic mono-aldehydes with unsaturated side chains. Thirty-two pages are devoted to the heterocyclic mono-aldehydes; and there are separate sections dealing with keto-aldehydes and with higher aromatic aldehydes of the fatty acid series. The more important and widely used chemicals belonging to these groups are described in great detail, and this detailed description includes not only a complete exposition of their chemical structure, their preparation, tests for purity, detection in small quantities, and various reactions employed in studying them, but also gives the history of the com-

pounds and their uses and an exhaustive literature of a highly specialized character bearing on the subject. One of the most interesting and valuable features of this work is numerous tables showing the extensive relationships between the various chemical groups. The value of these can be fully appreciated only by specialists in chemistry and then only by those chemists who specialize in this particular department of organic chemistry.

Among the various subjects treated in this book we have the well-known aldehydes such as perillaaldehyde, myrtenal, phellandral, farnesal, cyclocitral, santalol, benzaldehyde, phenylacetaldehyde, hydrocinnamylaldehyde, cuminaldehyde, cinnamylaldehyde,  $\alpha$ -amylaldehyde and  $\alpha$ -furfural. Among the less well-known compounds the following may be mentioned: hexahydrobenzaldehyde, suberenaldehyde, suberanaldehyde, cyclohexylacetaldehyde, cyclohexylidenacetaldehyde, cryptal, camphenilaldehyde, noreksantalol, the toluylaldehyde, *p*-tolylacetaldehyde, ethylbenzaldehyde, hydratopaaldehyde, the dimethylbenzaldehyde, the methylhydrocinnamylaldehyde, methylcinnamylaldehyde, etc.

Even a superficial perusal of this work reveals that the writers are experts in their subject and have drawn not only upon their own extensive practical experience with the compounds studied but have also made an exhaustive study of the literature. The text is printed on excellent paper and, in addition to the many tables already referred to, contains a number of valuable illustrations. This work should appeal especially to chemists, perfumers, pharmacists and others interested in aromatic compounds.—DAVID I. MACHT.

*Aids to the Mathematics of Pharmacy*. By ARTHUR W. LUPTON, M.C., Ph.C., Joint Principal Leeds College of Pharmacy; one time member of the Board of Examiners of the Pharmaceutical Society for England and Wales. Published by William Wood & Company, 156 Fifth Ave., New York. 95 pages. Price