

Synthesis of *Iso*-amylcyclopentane.—*Iso*-amylcyclopentane was prepared by methods similar to those used by Chavanne and Becker in the synthesis of ethylcyclopentane.¹ *Iso*-amylcyclopentanol was prepared from cyclopentanone and *iso*-amyl bromide by a Grignard reaction; this alcohol was dehydrated with *p*-toluenesulfonic acid and the resulting cyclopentene was hydrogenated with platinum black as a catalyst.

The following physical constants were determined: *iso*-amylcyclopentanol—colorless, oily liquid, pleasant odor, b. p. 101° at 17 mm., $d_4^{26} = 0.8848$, $n_D^{26} = 1.4549$; *iso*-amylcyclopentene—colorless, mobile liquid, petroleum-like odor, b. p. 168–170° at 760 mm., $d_4^{25} = 0.8010$, $n_D^{25} = 1.4467$; *iso*-amylcyclopentane—colorless, mobile liquid, petroleum-like odor, b. p. 168–170° at 760 mm., $d_4^{25} = 0.7837$, $n_D^{25} = 1.4321$.

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NEW BOOKS

Volumetric Analysis. By I. M. KOLTHOFF, Professor of Analytical Chemistry at the University of Minnesota, with the collaboration of Dr. Ing. H. MENZEL, Dresden. Translated by N. HOWELL FURMAN, Ph.D., Associate Professor of Analytical Chemistry, Princeton University. Vol. II. Practical Volumetric Analysis. John Wiley and Sons, Inc., 440 Fourth Avenue, New York, 1929. xiv + 552 pp. 18 figs. 15 × 23.5 cm. Price \$5.00.

This book represents, beyond all question, a scholarly, interesting and valuable contribution to the literature of analytical chemistry and one which deserved translation. The original intention had been to write merely a treatise on the underlying theories of titration methods with the idea that H. Beckurt's revision of F. Mohr's well-known book would still serve as a text-book of practical methods, but since the publication of the Beckurt book there has been such a marked development in this branch of analytical chemistry that it seemed wise to write a new, critical and comprehensive work. The text of Beckurt, however, has been used freely in the preparation of this new book. To give some idea of the thoroughness with which Dr. Kolthoff has combed the journal literature, it may be mentioned that there are about one thousand footnotes and in one case more than fifty references are given in a single footnote. There is hardly a paper written during the last fifteen years on volumetric procedure that does not receive consideration or mention.

The book is not intended as a text for beginners. The discussion presupposes a considerable knowledge of chemical principles and only rarely are the directions given in sufficient detail for the beginner to follow.

¹ Chavanne and Becker, *Bull. soc. chim. Belg.*, **36**, 591 (1927).