

Title	Synthetic studies on aminocyclohexanols and its related compounds
Sub Title	
Author	小川, 誠一郎(Ogawa, Seiichiro)
Publisher	慶應義塾大学藤原記念工学部
Publication year	1964
Jtitle	Proceedings of the Fujihara Memorial Faculty of Engineering Keio University (慶應義塾大学藤原記念工学部研究報告). Vol.17, No.66 (1964.) ,p.80(36)- 80(36)
JaLC DOI	
Abstract	
Notes	Summaries of Doctor and Master Theses Master of Engineering, 1964 Applied Chemistry
Genre	Departmental Bulletin Paper
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=KO50001004-00170066-0036

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Synthetic Studies on Aminocyclohexanols and its Related Compounds

Seiichiro OGAWA*

The interest in inosamine and inosadamine has been stimulated by their occurrence in certain antibiotics. There are many antibiotics which have analogous structures and antibiotic activities such as Kanamycin, neomycin A, B, C, paromomycin, zygomycin etc. It is remarkable that they all have deoxystreptamine to which two or three different kinds of aminosugars are bonded by α -glycosidic linkage. So it is desirable to study the relationship between chemical structure and antibiotic activity with model compounds of simpler structure. For this purpose 2-amino-cyclohexy-D-glucosaminides have been synthesized and their antibiotic activities have been investigated. The author have synthesized all three predicted diastereomers of 2-amino-1, 3-cyclohexanediol and one of the predicted four isomers of 2,3-diaminocyclohexanol. Their configurations have been established by means of their proton magnetice resonanc spectra.

*小川 誠 一 郎