

Regioselective Conversion of Anhydro Sugars into Halohydrins and X-Ray Study

Syed Tasadaque A. Shah^a, Raid J. Abdel-Jalil^a, Khalid M. Khan^b, Angelica M. Heinrich^a, Markus Richter^c, and Wolfgang Voelter^a

^a Abteilung für Physikalische Biochemie des Physiologisch-chemischen Instituts der Universität Tübingen, Hoppe-Seyler Straße 4, D-72076 Tübingen, Germany

^b HEJ Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan

^c Institut für Anorganische Chemie der Universität Tübingen, Auf der Morgenstelle 18, D-72076 Tübingen, Germany

Reprint requests to Prof. Dr. Dr. h. c. mult. Wolfgang Voelter. Fax: 0049-7071-293348.
E-mail: wolfgang.voelter@uni-tuebingen.de

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A rapid, easy, regio- and stereoselective synthesis of 3-halo-3-deoxy sugars using titanium tetrahalides is described. To fully confirm the stereochemistry of the synthetic products, the X-ray structure of benzyl 3-chloro-3-deoxy- β -L-xylopyranoside was determined.

Key words: Anhydro, Bromodeoxy, Chlorodeoxy and Iododeoxy Sugars, Titanium Tetrahalides