

Dey, S.; Jayaraman, N., 2014, "Analysis of conformations of seven-membered septanoside sugars", *Pure Appl. Chem.*, 86, 1401 – 1419.

This article undertakes to review studies of the structural aspects of un-natural carbohydrates, namely, seven-membered septanose sugars. These one carbon higher homologues of the most abundant pyranoside sugars have intrigued the sugar chemists for a few decades now, although a unified view of the structural aspects of this specific class of sugars have not been detailed in any literature documents till date. In our interest in the studies of such sugars, we have not only been fortunate to establish a rugged synthetic methodology to prepare these sugars, but also privileged to determine their solid state and solution phase structures in few cases. As we work more in this area, we find even more interesting and important expansion of this class of sugars in the years ahead.