

Muktha, B.; Srinivas, O.; Amresh, M.; Guru Row, T. N.; Jayaraman, N., Sekar, S., 2003, "An Exclusive CH- π interaction as a surrogate of OH-O interactions of natural sugars: Evidence of complete preservation of molecular packing pattern by 1,2,3,4,6-*penta-O*-benzoyl- β -D-mannopyranose", *Carbohydr. Res.*, 338, 2005 – 2011.

In a programme aimed at studies of sugar conformation and structure, the single crystal X-ray structure of mannose perbenzoate and the analysis of non-covalent intermolecular interactions is reported in this work. It is quite intriguing and revealing that our analysis of the crystal structure shows that the non-covalent intermolecular forces as promoted by weak C-H... π interactions very closely mimic the O-H...O interactions of just free sugars. This report is important for those working in the area of not only sugar synthesis and studies, but also those working in sugar conformation and modeling.