
AIM AND OBJECTIVES

With the importance, wide applicability and unique properties of the C_3 symmetric compounds possess in mind, it was decided to explore the chemistry of C_3 symmetric compounds with an aim to study various aspects involved with them. Recent developments in past few years inspired us to further investigate the C_3 symmetric molecules with a different perspective. Starting from various functional derivatives of 1,3,5-trimethyl benzene it was aimed at to incorporate various heteroatoms and heterocycles as binding sites to accommodate potential guest molecules or ions. In this context, C_3 symmetric formyl functionalized molecules developed earlier in our laboratory were kept in mind to build higher generation C_3 symmetric compounds as well as some new heterocyclic pendant groups as a part of tri-armed podands. In addition to tris-formyl intermediates some other tri-functional compounds were also aimed to be prepared and utilized. The new C_3 symmetric targeted compounds were also aimed to be studied for their binding ability with potential guest entities. As heterocyclic compounds are associated with various biological activities, the new C_3 symmetric heterocyclic compounds were planned for screening for their preliminary biological activities.