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Benzocyclotrimeres: Scaffolds for Supramolecular Chemistry

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Benzocyclotrimeres are rigid, cup-shaped and in case enantiopure molecules obtained from the condensation of bicyclic olefins bearing anionic (Br, I) and cationic (Me3Sn, H) leaving groups (Scheme 1).

Scheme 1

Recent methodologies consent highly syn-diastereoselective synthesis of functionalized benzocyclotrimeres, suitable for applications in supramolecular chemistry, such as nanocapsule,\(^1\) nanocages\(^2\) and metal organic-frameworks able to include suitable guests (Figure 1).

Figure 1

References

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