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
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Dibenzotetraaza[14]annulenes: versatile ligands for transition metal chemistry

[Philip Mountford](#)

Abstract

This article presents an overview of the chemistry of metal complexes of dibenzotetraaza[14]annulenes, highlighting some of the recent developments. The title tetraazamacrocycles are related to the porphyrin family, with a similar 'hole size' and typically possess a non-planar, saddle-shaped conformation. This similarity to the porphyrins means that these synthetic macrocycles are of bioinorganic relevance. Their unique characteristics make them interesting ligands in their own right. In early transition metal chemistry, dibenzotetraaza[14]annulenes have been studied as potential alternatives to the ubiquitous porphyrins, while later transition metal derivatives can mimic certain biological systems and act as catalysts. The dibenzotetraaza[14]annulenes have also recently allowed advances in structural organometallic and coordination compounds, including the stabilisation of new metal complexes.

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