

NITRILIUM DERIVATES OF *NIDO*-CARBORANE IN SYNTHESIS OF TRANSITIONAL METAL COMPLEXES

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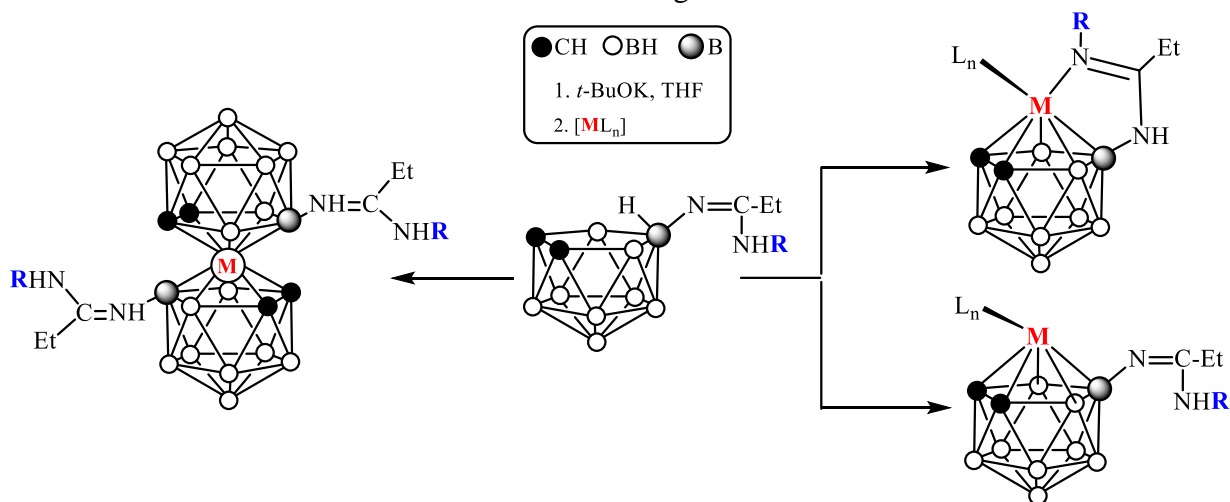
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Nitrilium derivatives of *nido*-carborane can be used as universal precursors in the synthesis of various types of compounds such as imidates, thioimidates, amidines, *etc.*¹

Deprotonated form of *nido*-carborane (dicarbollide dianion) can be used as a η^5 -ligand for the obtaining of half-sandwich or sandwich complexes depending on the nature of transitional metal. The *nido*-carborane derivatives with substituent carrying *O*- or *N*-donor function(s) allow obtaining unusual metal complexes in which the metal center is coordinated by open *nido*-carborane frame in η^5 -manner along with the coordination by oxygen or nitrogen atom(s) of side substituent in κ^1 - or κ^2 -manner².

In this work, various types of structures of transition metal complexes (Fe, Ru, Rh) obtained from *nido*-carborane derivatives with an amidine fragment in the side substituent are discussed³.



References

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