Supporting information

Compounds with Direct Gallium–Lanthanum and Gallium–Zinc Bonds

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The electronic structures of **4** and **10** were examined by DFT calculations at the B3LYP/6-31G* and B3LYP/def2-TZVP levels respectively using the Gaussian 03 (Revision B.03) package.[1] After optimization NBO analysis was performed on the basis of the NBO 5.0 code.[2]

References

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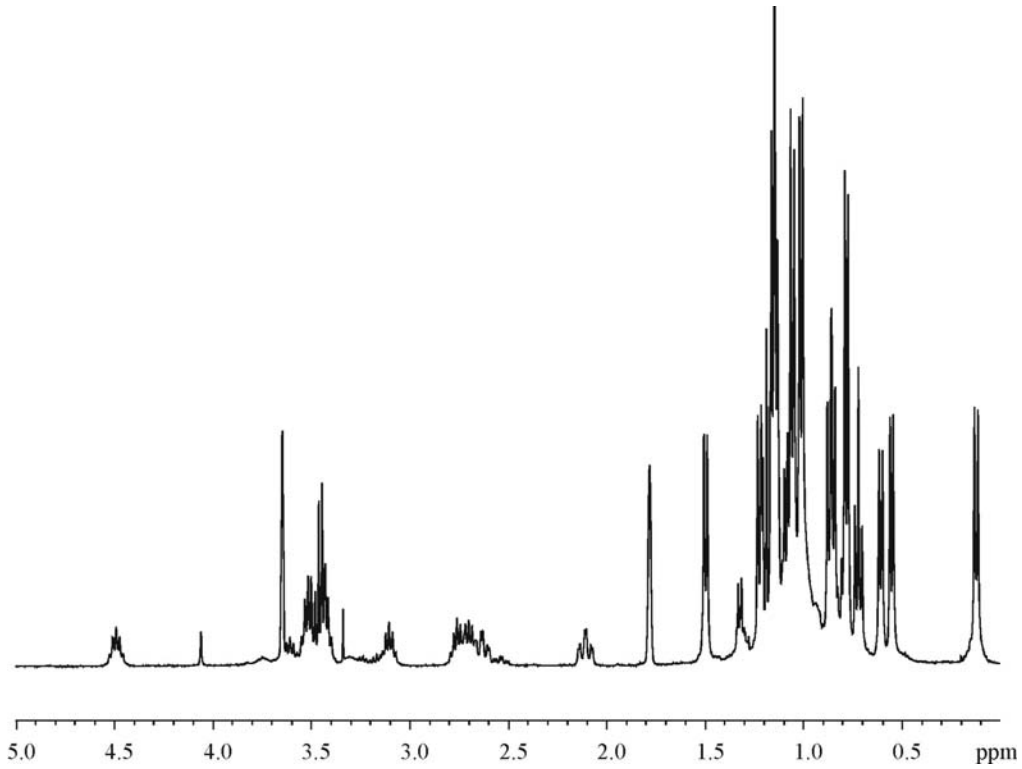
2. NBO 5.0. E. D. Glendening, J. K. Badenhoop, A. E. Reed, J. E. Carpenter, J. A. Bohmann, C. M. Morales and F. Weinhold (Theoretical Chemistry Institute, University of Wisconsin, Madison, WI, 2001).

Aliphatic region of the ^{1}H NMR spectrum of complex 4 (293 K, thf-d_8, 400 MHz)



^{1}H NMR spectrum of complex 6 (293 K, thf-d_8, 400 MHz)