

Synthesis, structure and coordination behavior of N-based ligand

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The design of ligands for selective metal ion coordination is of great interest in many chemical fields. The steric and electronic properties of the ligand influence the chemistry of the metal complex. A multidentate ligand containing Nitrogen was synthesized and its structure was elucidated by elemental analysis, FT-IR, NMR and Mass spectral studies. The coordination behavior of the compound towards metal ion was explored. The N-based ligand was also evaluated for its selective binding to certain cations. This work was supported by the National Research Foundation of Korea (NRF) grant funded by the Ministry of Science, ICT & Future Planning (No. 2012R1A2A1A01009683) and the Ministry of Education (No. 2009-0093816).