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Structural investigation of Fe(III) and Ga(III) complexes with aromatic hydrazones by ESI MS/MS

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Aroylhydrazones can act as neutral, monoanionic or dianionic ONO tridentate ligands. The coordination abilities of aromatic hydrazones derived from nicotinic acid hydrazide and 4-hydroxybenzaldehyde towards Fe³⁺ and Ga³⁺ will be discussed. Different techniques, like UV-Vis, vibrational spectroscopy and mass spectrometry were used for structural investigation of the complexes in solution and in the solid state. In this work ESI-MS and MS/MS data, including fragmentation pathways of Fe(III) and Ga(III) complexes with aroylhydrazones are presented.

Biography

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