

Metallkomplexe mit biologisch wichtigen Liganden, CXX [1]. Halbsandwich-Komplexe von Ruthenium(II) und Iridium(III) mit 3-(3-Pyridyl)-D-alaninat

Metal Complexes of Biologically Important Ligands, CXX [1]. Half Sandwich Complexes of Ruthenium(II) and Iridium(III) with R-3-(3-Pyridyl)-D-alaninate

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The reactions of the chloro bridged complexes $[(p\text{-cymene})\text{RuCl}_2]_2$ and $[(\text{C}_5\text{Me}_5)\text{IrCl}_2]_2$ with the anion of 3-(3-pyridyl)-D-alanine (L) afford the N,O-chelate complexes $(p\text{-cymene})\text{-Ru(L)(Cl)}$ (**1**) and $(\text{C}_5\text{Me}_5)\text{Ir(L)(Cl)}$ (**2**). Abstraction of chloride from **1** and **2** using AgSbF_6 gives the dimers $[(p\text{-cymene})\text{Ru}(\mu\text{-L})_2\text{Ru}(p\text{-cymene})]^{2+}(\text{SbF}_6)_2$ (**3**) and $[(\text{C}_5\text{Me}_5)\text{Ir}(\mu\text{-L})_2\text{Ir}(\text{C}_5\text{Me}_5)]^{2+}(\text{SbF}_6)_2$ (**4**) with coordination of the pyridine N atom. Complex **4** is formed in high diastereomeric excess. The structure of $(\text{C}_5\text{Me}_5)\text{Ir}(\mu\text{-L})_2\text{Ir}(\text{C}_5\text{Me}_5)]\text{Cl}_2$ (**5**) which contains the $\text{S}_{\text{Ir}}\text{R}_{\text{C}}\text{R}_{\text{C}}\text{R}_{\text{Ir}}$ diastereoisomer in the crystal was determined by X-ray diffraction.