

**Metallkomplexe mit biologisch wichtigen Liganden, CXXIV [1].  
NMR-spektroskopische Bestimmung des Enantiomerenverhältnisses  
von  $\alpha$ -Aminosäuren mit Hilfe eines chiralen orthometallierten  
Palladiumkomplexes**

Metal Complexes of Biologically Important Ligands, CXXIV [1].  
NMR-Spectroscopic Determination of the Enantiomeric Ratio of  $\alpha$ -Amino Acids  
by Use of a Chiral Orthometallated Palladium Complex

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Metal Complexes,  $^1\text{H}$  NMR Data

The chiral orthometallated palladium complex (S)-[Pd{C<sub>6</sub>H<sub>4</sub>(CH(CH<sub>3</sub>)N(CH<sub>3</sub>)<sub>2</sub>)-C,N}Cl]<sub>2</sub> (**1**) can be used as a reagent for the determination of the enantiomeric ratio of  $\alpha$ -amino acids. By reaction of **1** with mixtures of several D- and L- $\alpha$ -amino carboxylates diastereoisomers of the  $\alpha$ -amino acidato complexes **2a** - **g** are obtained.  $^1\text{H}$  NMR determination of the ratio of the diastereoisomers provides the D/L-ratio of the used D- and L- $\alpha$ -amino carboxylates and is therefore a simple method for the determination of the enantiomeric ratio of  $\alpha$ -amino acids.