

Metallkomplexe von biologisch wichtigen Liganden, CXLVIII [1]. Katalytische Peptidsynthese aus Glycinester mit Hilfe von Triflaten und Cloriden der Seltenen Erden, sowie von Metall(III), (IV), (V) und (VI)-Chloriden

Metal Complexes of Biologically Important Ligands, CXLVIII [1]. Synthesis of Peptides from Glycine Ester Catalysed by Triflates and Chlorides of Metal(III, IV, V and VI) Ions

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Formation of di- and triglycine ethylester which were determined by HPLC after derivatisation with dansyl chloride was observed in medium to high yields from CH_2Cl_2 solutions of glycine ethylester in the presence of metal triflates and metal chlorides: FeCl_3 (yield 82%), AlCl_3 (73%), GdCl_3 (56%), $\text{La}(\text{OTf})_3$ (59%), $\text{Sc}(\text{OTf})_3$ (55%), ZrCl_4 (62%), HfCl_4 (60%), VOCl_3 (43%), TaCl_5 (29%). Esters of higher α -amino acid esters (AlaOMe, PheOMe) gave lower yields in peptide formation.

Key words: Peptides Synthesis, Rare Earth Elements, Transition Metals, Catalysts,
 α -Amino Acid Esters