Preparation of Optically Active α-Amino[3]ferrocenophanes − Building Blocks for Chelate Ligands in Asymmetric Catalysis

Patrick Liptau, Ludger Tebben, Gerald Kehr, Birgit Wibbeling, Roland Fröhlich, and Gerhard Erker*

Keywords: Ferrocenes / Ferrocenophanes / Chelate ligands

We noticed that some mistakes were made in the determination of the Δε and $[\alpha]_D^{20}$ values of compounds ***6*** *and* ***11*** *in our article[1] that need to be corrected. The correct values for* ***6*** *(p. 3597) and* ***11*** *(p. 3598f.) (including the corrected Figure 8, p. 3596) are as follows:*

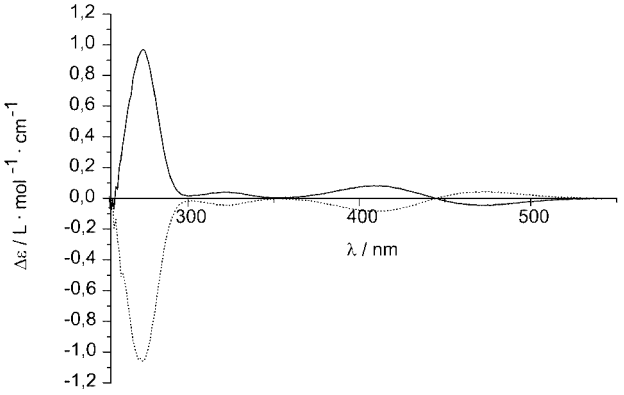

Figure 8. CD spectra of (1*R*,3*R*)-**6** (solid line, 4×10^{-4} g mL^{-1}) and (1*S*,3*S*)-**6** (dotted line, 4×10^{-4} g mL^{-1}) in CH_3CN

(1*S*,3*S*)-**6**: $[\alpha]_D^{20} = -89$ ($c = 2 \times 10^{-3}$ g mL^{-1}, CH_3CN). CD: Δε (λ_{max}) = −1.06 (274), −0.04 (326), −0.08 (412), +0.04 (476) ($c = 4 \times 10^{-4}$ g mL^{-1}, CH_3CN). (1*R*,3*R*)-**6**: $[\alpha]_D^{20} = +91$ ($c = 2 \times 10^{-3}$ g mL^{-1}, CH_3CN). CD: Δε (λ_{max}) = +0.97 (274), +0.04 (326), +0.08 (412), −0.04 (476) ($c = 4 \times 10^{-4}$ g mL^{-1}, CH_3CN).

(1*S*,3*S*)-**11**: $[\alpha]_D^{20} = -109$ ($c = 2 \times 10^{-3}$ g mL^{-1}, CH_3CN). CD: Δε (λ_{max}) = −0.23 (275), +0.02 (334), −0.10 (416), +0.03 (483) ($c = 4 \times 10^{-4}$ g mL^{-1}, CH_3CN). (1*R*,3*R*)-**11**: $[\alpha]_D^{20} = +111$ ($c = 2 \times 10^{-3}$ g mL^{-1}, CH_3CN). CD: Δε (λ_{max}) = +0.23 (275), −0.02 (334), +0.10 (416), −0.02 (483) ($c = 4 \times 10^{-4}$ g mL^{-1}, CH_3CN).

[1] P. Liptau, L. Tebben, G. Kehr, B. Wibbeling, R. Fröhlich, G. Erker, *Eur. J. Inorg. Chem.* **2003**, 3590−3600.

Received October 23, 2003
G. Erker

 DOI: 10.1002/ejic.200300782