STEREOCHEMISTRY ABSTRACTS

































Tetrahedron: Asymmetry 1991, 2, 643 K. Mikami, M. Terada, Y. Motoyama and T. Nakai E.e. = 85% (Not isolable. The % ee was determined after reduction) Source of chirality: Asymmetric Synthesis Absolute configuration: 1(S), 4a(R), 9a(R) (supposed on the basis of analogy with general method) C15H14O3 Tetrahedron: Asymmetry 1991, 2, 643 K. Mikami, M. Terada, Y. Motoyama and T. Nakai E.e. = 85% (by NMR analysis after conversion to MTPA ester) Source of chirality: Asymmetric Synthesis Absolute configuration: 1(S), 4a(R), 9(S), 9a(S), 10(S)(supposed on the basis of analogy with general method) ÔCH₄ ΗŌ C15H18O3 Tetrahedron: Asymmetry 1991, 2, 647 K. Maruoka, H. Banno, and H. Yamamoto E.e. = 88%Ph $[a]_{D}^{24}$ -38.5 (c 0.5, CHCl₃) Source of chirality: asymmetric Claisen rearrangement Č(=O)SiMe₃ Absolute configuration: 3S C14H20OSi (S)-3-phenyl-1-(trimethylsilyl)-4-penten-1-one Tetrahedron: Asymmetry 1991, 2, 647 K. Maruoka, H. Banno, and H. Yamamoto E.e. = 91%Ph $[a]_{D}^{24}$ -23.7 (c 0.5, CHCl₃) Source of chirality: asymmetric Claisen rearrangement Ċ(=O)GeMea Absolute configuration: 3S C₁₄H₂₀OGe (S)-3-phenyl-1-(trimethylgermyl)-4-penten-1-one







P. von Matt and A. Pfaltz



C₁₂H₁₇NO 3-Methyl-5-phenylpentanamide

P. von Matt and A. Pfaltz



C₁₃H₁₉NO N,3-Dimethyl-5-phenylpentanamide

P. von Matt and A. Pfaltz



C14H21NO N-Ethyl-3-methyl-5-phenylpentanamide

Tetrahedron: Asymmetry 1991, 2, 691

E.e. = 95.1 % (by HPLC analysis of the corresponding (R)-1-naphthyl)ethylamide)

 $[\alpha]_{D} = +17.6$ (c 1.0, CHCl₃, 23°C)

Source of chirality: asymmetric synthesis

Absolute configuration R (assigned by optical rotation according to the literature)

Tetrahedron: Asymmetry 1991, 2, 691

E.e. = 98.7 % (by HPLC analysis of the corresponding (R)-1-naphthyl)ethylamide)

 $[\alpha]_{D} = +18.4$ (c 1.0, CHCl₃, 23°C)

Source of chirality: asymmetric synthesis

Absolute configuration R (assigned by optical rotation according to the literature)

Tetrahedron: Asymmetry 1991, 2, 691

E.e. = 94.8 % (by HPLC analysis of the corresponding (R)-1-naphthyl)ethylamide)

 $[\alpha]_{D} = +14.7$ (c 1.0, CHCl₃, 23°C)

Source of chirality: asymmetric synthesis

Absolute configuration R (assigned by optical rotation according to the literature)

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C₁₅H₂₃NO N-Isopropyl-3-methyl-5-phenylpentanamide Tetrahedron: Asymmetry 1991, 2, 691

E.e. = 93.5 % (by HPLC analysis of the corresponding (R)-1-naphthyl)ethylamide)

 $[\alpha]_{D} = +9.6$ (c 1.0, CHCl₃, 23°C)

Source of chirality: asymmetric synthesis

Absolute configuration R (assigned by optical rotation according to the literature)

P. von Matt and A. Pfaltz

CMe₃

C₁₆H₂₅NO N-tert-Butyl-3-methyl-5-phenylpentanamide Tetrahedron: Asymmetry 1991, 2, 691

E.e. = 92.0 % (by HPLC analysis of the corresponding (R)-1-naphthyl)ethylamide)

 $[\alpha]_{D} = +8.9$ (c 1.0, CHCl₃, 23°C)

Source of chirality: asymmetric synthesis

Absolute configuration R(assigned by optical rotation according to the literature)

P. von Matt and A. Pfaltz

,CH₃

C11H15NO N-Methyl-3-phenylbutanamide

Tetrahedron: Asymmetry 1991, 2, 691

E.e. = 92.3 % (by HPLC analysis of the corresponding (R)-1-naphthyl)ethylamide)

 $[\alpha]_{D} = +38.2$ (c 1.0, CHCl₃, 23°C)

Source of chirality: asymmetric synthesis

Absolute configuration S(assigned by optical rotation according to the literature)

C. Bolm

C. Bolm



Tetrahedron: Asymmetry 1991, 2, 701

Ee = 86% (by HPLC analysis) Absolute configuration: R Source of chirality: asymmetric synthesis

C17H18O 1,3-Diphenylpentanone

Tetrahedron: Asymmetry 1991, 2, 701

Ee = 98% (by HPLC analysis) Absolute configuration: S Source of chirality: asymmetric synthesis

C16H19NO 2,2-Dimethyl-1-(6-phenyl-pyridin-2-yl)propanol

Tetrahedron: Asymmetry 1991, 2, 701



C. Bolm

Ee = 98% (by HPLC analysis) Absolute configuration: S Source of chirality: asymmetric synthesis

C20H21NO 2,2-Dimethyl-1-[6-(naphth-2-yl)-pyridin-2-yl]propanol

