

## Resolution and determination of the absolute configuration of 3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxaldehyde.

### Autorzy

A. Kłys

J. Zakrzewski

Lucjan B. Jerzykiewicz

### Rok wydania

2003

### Czasopismo

Tetrahedron-Asymmetry

### Numer woluminu

14

### Strony

3343-3346

### DOI

10.1016/j.tetasy.2003.09.007

### Kolekcja

Naukowa

### Język

Angielski

### Typ publikacji

Artykuł

### Streszczenie

Racemic 3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxaldehyde **1** was resolved via the formation of diastereomeric dioxolanes with (S)-(+)-1-phenyl-1,2-ethanediol. Four stereoisomers were separated by column chromatography. The absolute configuration of one of them (2''R, 4''S,1R) was established by X-ray diffraction. Acid hydrolysis of the dioxolanes afforded quantitatively (R)- and (S)-enantiomers of **1**. Optical rotatory dispersion (ORD) spectra of both enantiomers are also reported. Resolved via the formation of diastereomeric acetals with (S)-(+)-1-phenyl-1,2-ethanediol.

### Adres publiczny

<https://doi.org/10.1016/j.tetasy.2003.09.007>

### Strona internetowa wydawcy

<http://www.elsevier.com>