

## Enantiomerically Pure $C_3$ -Symmetric Tripodal Pyridine Ligands

Hans Adolfsson, Kenneth Wärnmark and Christina Moberg\*

*Department of Organic Chemistry, Royal Institute of Technology, S-100 44 Stockholm, Sweden*

Chiral, optically pure ligands with  $C_3$  symmetry have been prepared from tripyridylmethanol by substitution in the 6-position of the pyridine nuclei and asymmetric modification of the substituents.

---

Chiral ligands with rotational symmetry are presently attracting extensive interest for use in asymmetric reactions catalysed by transition metals. To date, ligands possessing a two-fold axis of symmetry have been the principal objects for study.<sup>1</sup> The high degree of stereocontrol often achieved is believed to

originate from the homotopic nature of the two remaining coordination sites in a square planar complex containing a  $C_2$ -symmetric bidentate ligand, a situation which reduces the number of possible intermediate complexes and, therefore, the number of diastereoisomeric transition states. In an

