



*seeks partner to license*

## **Method of Using Alpha-Substituted Benzylamine Chiral Auxiliary Synthetic Reagents**

The University of Toledo is seeking companies and research organizations interested in licensing technology relating to the use of a family of chiral alpha-substituted benzylamine reagents which have general utility during chemical synthesis for the practical production of nitrogen-containing compounds having enhanced stereochemical purity. The technology provides methods of deploying a family of chiral benzylamine-related reagents during chemical syntheses in an auxiliary manner whereby the chiral benzyl portion of the reagent is subsequently removed in a separate and convenient step that renders the overall process suitable for use in process and larger-scale, manufacturing type chemical manipulations. The technology also allows the asymmetric nature of the benzyl group to be used to bestow an asymmetric bias towards formation, separation or subsequent reactions of the diastereomeric intermediates that result from reaction of the reagents with the racemic modifications of substrates which also possess one or more asymmetric centers.

### **Application:**

Chemical synthesis manipulations directed toward achieving stereocontrol over asymmetric centers that are present in organic molecules having at least one nitrogen atom present within their structures.

**Advantages:** Very practical methodology that deploys environmentally friendly chemicals that are not expensive or exotic chiral inducing substances such that it can be useful for large-scale, manufacturing types of applications as well as for laboratory research syntheses.

Protected by issued patent:

5,977,409

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