

Synthesis of α -aminophosphine oxides with chiral phosphorus and carbon atoms

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Abstract

Lipophilic α -aminophosphine oxides are good extractants for liquid and membrane extraction. Optically active α -aminophosphine oxides, containing chiral centers in their structure, can provide selective means for transfer of stereoisomers through supported liquid membranes. We have developed a method for synthesis of such carrier compounds based on a three-component Kabachnik-Fields reaction. Copyright © Taylor & Francis Group, LLC.

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Keywords

α -Aminophosphine oxide, Chiral phosphorus atom, Kabachnik-Fields reaction, Membrane extraction, Stereoselective membrane transport