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(54) Title: C1-SYMMETRIC BISPHOSPHINE LIGANDS AND THEIR USE IN THE ASYMMETRIC SYNTHESIS OF PREGABALIN

(57) Abstract: Materials and methods for preparing (S)-(+)-3-(aminomethyl)-5-methylhexanoic acid and structurally related compounds via enantioselective hydrogenation of prochiral olefins are disclosed. The methods employ novel chiral catalysts, which include C_1-symmetric bisphosphine ligands bound to transition metals.

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