

# Cage-Like Amino Alcohols. Synthesis, Reactions, and Application

L. I. Kas'yan and V. A. Pal'chikov

*Oles' Gonchar Dnepropetrovsk National University, pr. Gagarina 72, Dnepropetrovsk, 49625 Ukraine  
e-mail: palchikoff@mail.ru*

Received April 14, 2009

**Abstract**—The review analyzes methods for the synthesis of amino alcohols containing cage-like norbornene, norbornane, and adamantane fragments. Such reactions of amino alcohols as selective functionalization of hydroxy and amino groups, as well as heterocyclizations with formation of nitrogen- and oxygen-containing heterocycles, are considered. Biological activity of cage-like amino alcohols and their derivatives and their use as ligands in catalytic asymmetric syntheses are discussed.

**DOI:** 10.1134/S107042801001001X