THIS SHEET HAS BEEN REPLACED

Resolution of racemates of primary and secondary heteroatom-substituted amines by enzyme-catalyzed acylation

Abstract

A process for preparing optically active primary and secondary heteroatom-substituted amines from the corresponding racemates, which comprises

a) enantioselective acylation of a racemic heteroatom-substituted amine with an ester whose acid component carries a fluorine, nitrogen, phosphorus, oxygen or sulfur atom in the vicinity of the carbonyl carbon, in the presence of a hydrolase,

b) separation of the mixture of optically active heteroatom-substituted amine and optically active acylated heteroatom-substituted amine to obtain one enantiomer of the heteroatom-substituted amine,

c) if required isolation of the other enantiomer of the heteroatom-substituted amine from the acylated heteroatom-substituted amine by amide cleavage.