

stereochemistry (general, optical resolution)

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The Origin of π -Facial Diastereoselectivity in Nucleophilic Additions to Chiral Carbonyl Compounds. Part 4. Calculated Transition State Structures for the Addition of Nucleophiles to 2-Methoxypropanal and 2-N,N-Dimethylaminopropanal. — The analysis of the theoretical data for the addition of LiH obtained by calculations using ab initio methods, shows that Coulombic, electronic and steric interactions as well as conformational energies may be dominant for determining the energetically lowest lying transitions states. — (FRENKING, G.; KOEHLER, K. F.; REETZ, M. T.; Tetrahedron 49 (1993) 19, 3983-3994; Fachbereich Chem., Philipps-Univ., W-3550 Marburg, Germany; EN)