Cycloalkylphenyl derivatives
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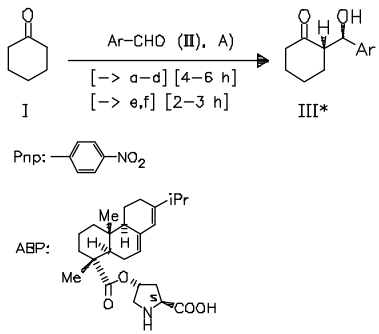
A New Organocatalyst Derived from Abietic Acid and 4-Hydroxy-L-proline for Direct Asymmetric Aldol Reactions in Aqueous Media. — The new catalyst efficiently catalyzes the aldol reaction between aromatic aldehydes and ketones with only 1 mol% loading. The reaction goes extremely fast (2-6 h) in water and affords the products in high yields with good diastereoselectivities and excellent enantioselectivities. — (BHOWMICK, S.; KUNTE, S. S.; BHOWMICK*, K. C.; Tetrahedron: Asymmetry 25 (2014) 18-19, 1292-1297, http://dx.doi.org/10.1016/j.tetasy.2014.07.012 ; Dep. Chem., Visva-Bharati Univ., Bolpur 731 235, West Bengal, India; Eng.) — L. Grundl



a Ar: —Tol 86% (84% d.e., 95% e.e.)
b Ar: 89% (92% d e., 98% e e.)
c Ar: 91% (92% d.e., >99% e.e.)
d Ar: —Pnp 89% (94% d.e., 99% e.e.)
e Ar: 97% (84% d.e., >99% e.e.)
f Ar: 95% (94% d e., 95% e e.)