

## Supporting Information (9 pages)

# Functionalized Bicyclo[3.3.0]octanes by Enantioselective Transannular Desymmetrization

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All new compounds described were fully characterized by  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR, IR, and mass spectroscopy or microanalysis.

$^{13}\text{C}$  NMR Spectra for compounds **7**, **8**, and **17-22** are enclosed in the following pages. Spectra were recorded on a Bruker DPX400 or AMX500 spectrometer. Spectra for compound **8**, **17**, **19**, **21** and **22** were recorded in  $\text{CDCl}_3$ ; **7** and **18** were recorded in  $d_8$ -toluene at  $90^\circ\text{C}$ ; **20** was recorded in  $\text{CD}_3\text{OD}$ .



















