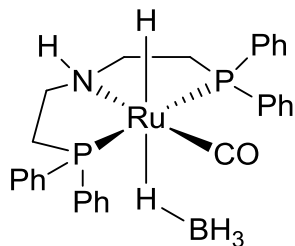


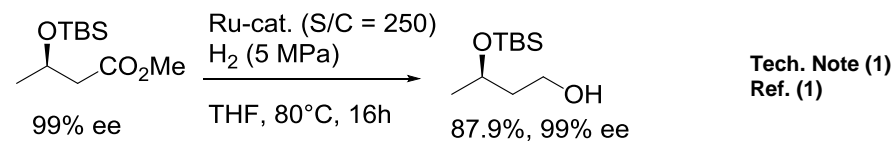
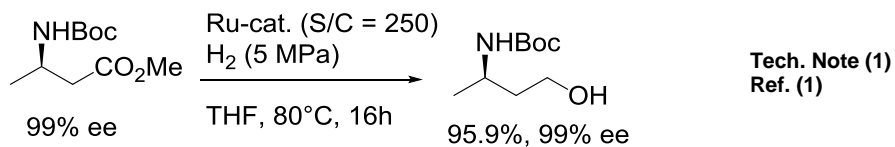
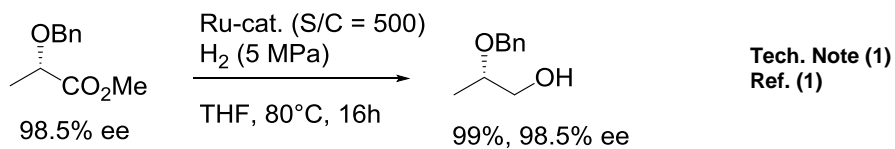
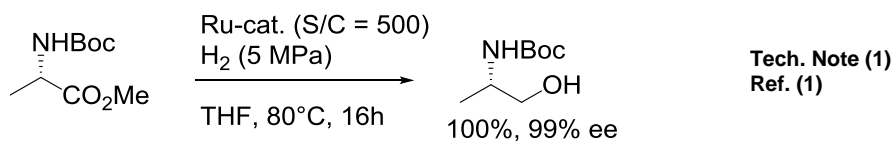
Catalog # 44-0074 Carbonylhydrido(tetrahydroborato)[bis(2-diphenylphosphinoethyl)amino]ruthenium(II), min.98% Ru-MACHO®-BH



Note: Sold in collaboration with Takasago. US. Pat. 8471048.

Technical Notes:

1. Catalyst used for hydrogenation of esters without addition of base.
2. See [44-0071](#).



Reference:

1. US. Pat. 8471048.