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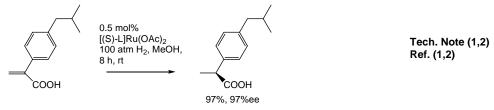
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 $Catalog \ \# \ 44-0095 \quad Chloro[(S)-(-)-2,2'-bis(diphenylphosphino)-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl](p-cymene) ruthenium(II)$ chloride [RuCl(p-cymene)((S)-H₈-binap)]Cl

Note: Manufactured under license of Takasago patent. Takasago BINAP Ru Cymene Catalyst Kit component.

Technical Notes:

- 1. Biaryl bisphosphine ligand. The H₈-BINAP ligand, as the ruthenium complex, catalyzes hydrogenation of unsaturated carboxylic acids to a higher ee than does BINAP. (Ref. 1,2)
- 2. The ruthenium catalyzed hydrogenation of aryl propenoic acid to produce the drug Ibuprofen.



References:

- J. Org. Chem., 1996, 61, 5510.
 Topics Organometal. Chem. 2004, 6, 63 (review).