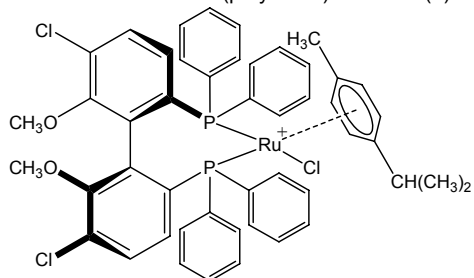


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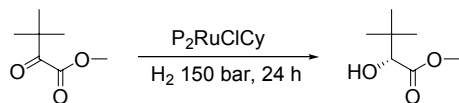
Catalog # 44-0121 Chloro[(R)-(+)-5,5'-dichloro-6,6'-dimethoxy-2,2'-bis(diphenylphosphino)-1,1'-biphenyl]
(p-cymene)ruthenium(II) chloride CH₂Cl₂ adduct



Note: Sold in collaboration with Lanxess for research purposes only. The product and its uses fall within the scope of US patents 5,710,339 and 5,801,261 and is sold with the right to use such product for research only.

Technical Notes:

1. Catalyst for asymmetric hydrogenation of α and β -keto esters.
2. Catalyst for asymmetric hydrogenation of α,β unsaturated acids.²



100% conv
95.8% ee

Tech. Note (1)
Ref. (1)

References:

1. EP1160237 (2001).
2. US5801261 (1998).