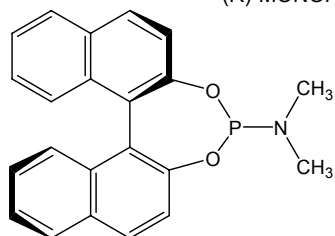


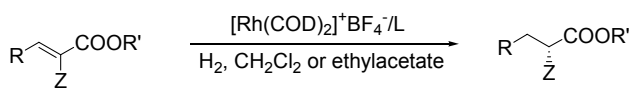
Catalog # 15-1232 (R)-(-)-(3,5-Dioxa-4-phosphacyclohepta[2,1-a;3,4-a']dinaphthalen-4-yl)dimethylamine, min. 97%
(R)-MONOPHOS



Note: Sold in collaboration with DSM for research purposes only. Patent no. WO 02 04466. DSM's MonoPhos™ Ligand Kit component.

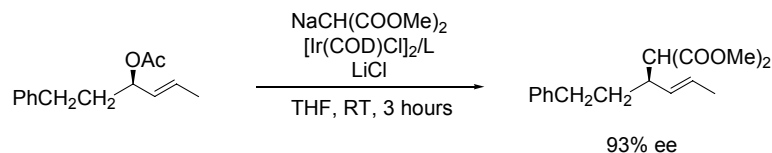
Technical Notes:

1. Ligand used in the enantioselective, rhodium-catalyzed hydrogenation of substituted olefins, such as N-acetyldihydroamino acids, enamides, and unsaturated acids.
2. Ligand used in the enantioselective, iridium-catalyzed allylic substitution of allyl acetates containing only a single substituent in the 1 or 3 position.
3. Ligand use in the rhodium-catalyzed, amide directed, asymmetric hydroboration reaction.
4. Ligand used in asymmetric conjugate addition of aryl boronic acids to dihydronitronaphthalenes.
5. Ligand used in the rhodium-catalyzed asymmetric intramolecular 1,4 addition.



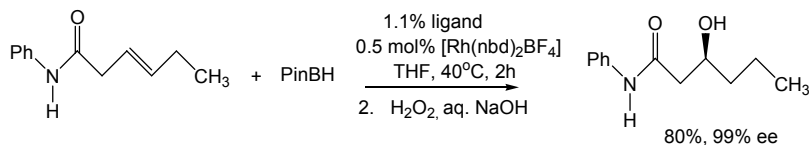
Tech. Note (1)
Ref. (1-3)

R = H, Ph R' = H, CH₃ Z = NHCOCH₃, CH₂COOH >97% ee



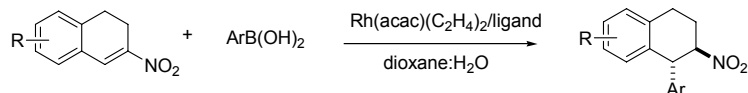
Tech. Note (2)
Ref. (4,5)

93% ee

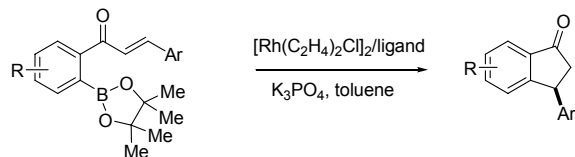


Tech. Note (3)
Ref. (6)

80%, 99% ee



Tech. Note (4)
Ref. (7)



Tech note (4)
Ref. (8)

References:

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