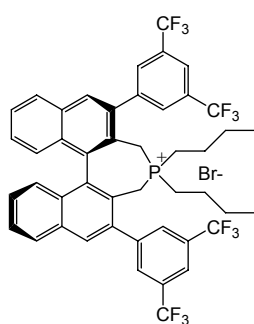


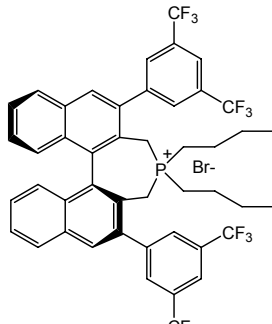


Maruoka Chiral Phase-Transfer Phosphonium Organocatalyst Kit

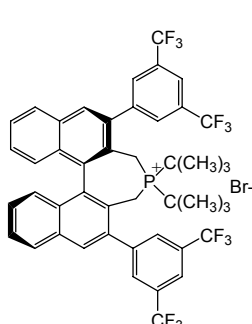
metals · inorganics · organometallics · catalysts · ligands · custom synthesis · cGMP facilities · nanomaterials



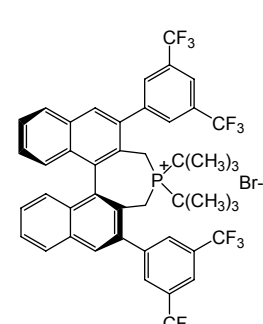
15-1457
R-MARUOKA CAT P-NB



15-1458
S-Maruoka CAT P-NB



15-1464
R-MARUOKA CAT P-TB



15-1465
S-MARUOKA CAT P-TB

96-3750 Maruoka Chiral Phase-Transfer Phosphonium Organocatalyst Kit

1 kit

NEW→

Contains 50mg unit size of the following items listed below.
Components available for individual sale.

15-1457

NEW→

(11bR)-(+)-4,4-Dibutyl-2,6-bis[3,5-bis(trifluoromethyl)phenyl]-4,5-dihydro-3H-dinaphtho [2,1-c:1',2'-e]phosphepinium bromide, 99% R-MARUOKA CAT P-NB
[C₄₆H₃₈F₁₂P]⁺Br⁻; FW: 929.65; white xtl.; [α]_D +29.8° (c 0.5, CHCl₃); m.p. 262-263°

50mg
250mg

Technical Note:

- See 15-1458.

15-1458

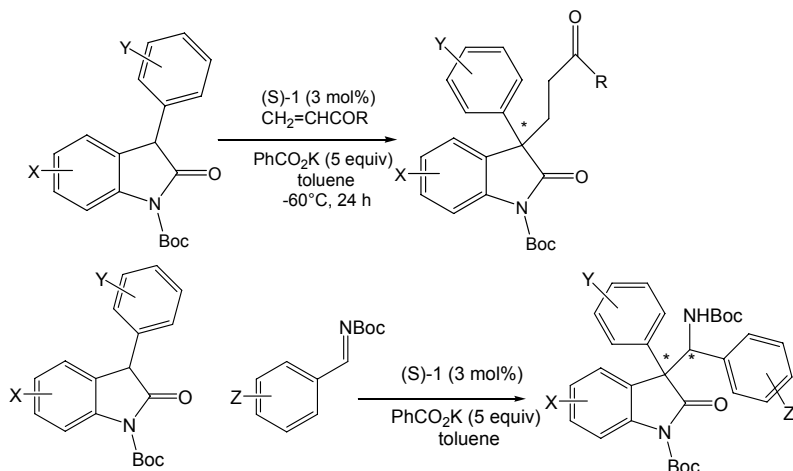
NEW→

(11bS)-(-)-4,4-Dibutyl-2,6-bis[3,5-bis(trifluoromethyl)phenyl]-4,5-dihydro-3H-dinaphtho [2,1-c:1',2'-e]phosphepinium bromide, 99% S-Maruoka CAT P-NB [1110813-90-5]
[C₃₆H₃₀F₁₂P]⁺Br⁻; FW: 929.65; white xt.; m.p. 262-263°

50mg
250mg

Technical Note:

- Chiral, phase-transfer catalyst for the asymmetric Michael and Mannich reactions of 3-aryloxindoles.



Tech. Note (1)
Ref. (1)

Tech. Note (1)
Ref. (1)

Reference:

- Angew. Chem. Int. Ed., 2009, 48, 4559.

15-1464

NEW→

(11bR)-(+)-4,4-Di-t-butyl-2,6-bis[3,5-bis(trifluoromethyl)phenyl]-4,5-dihydro-3H-dinaphtho [2,1-c:1',2'-e]phosphepinium bromide, 99% R-MARUOKA CAT P-TB
[C₄₆H₃₈F₁₂P]⁺Br⁻; FW: 929.65; white xtl.; [α]_D -13.8° (C 0.5, CHCl₃); m.p. 202-204°

50mg
250mg

Technical Note:

- See 15-1458.

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Email: enquiries@strem.co.uk

15-1465

NEW→

(11bS)-(-)-4,4-Di-t-butyl-2,6-bis[3,5-bis(trifluoromethyl)phenyl]-4,5-dihydro-3H-dinaphtho[2,1-c:1',2'-e]phosphzepinium bromide, 99% S-MARUOKA CAT P-TB
 [C₄₆H₃₈F₁₂P]⁺Br⁻; FW: 929.65; white xtl.; [α]_D +14.3° (c 0.5, CHCl₃); m.p. 202-203°

50mg
250mg

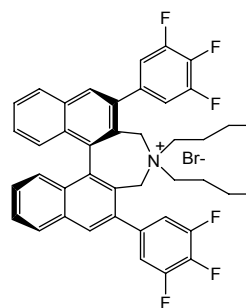
Technical Note:

- See 15-1458.

Also available

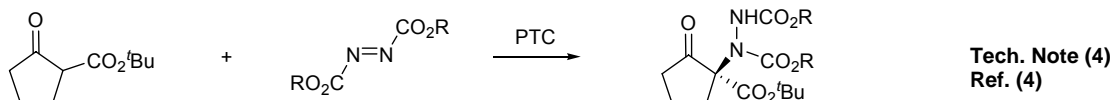
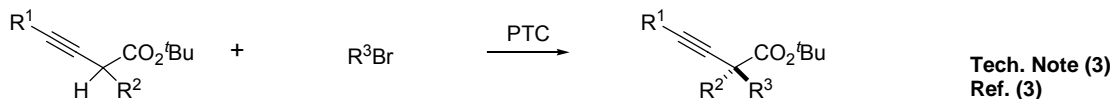
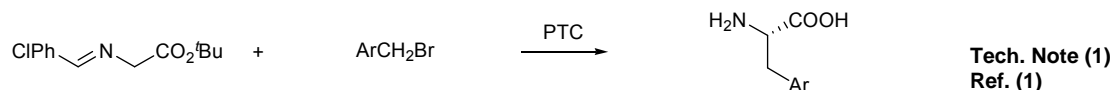
07-0380

(11bR)-4,4-Dibutyl-2,6-bis(3,4,5-trifluorophenyl)-4,5-dihydro-3H-dinaphtho[2,1-c:1',2'-e]azepinium bromide [887938-70-7]
 [C₄₂H₃₆F₆N]⁺Br⁻; FW: 748.64; brown powdr.
 Note: Sold in collaboration with Nagase for research purposes only.
 US Patent 6,340,753.

50mg
250mg

Technical Notes:

- 2nd Generation Maruoka chiral phase transfer catalyst, for enantioselective alkylation of α-amino acid derivatives, that is easily recovered for recycle by extraction with fluorous solvent.
- Catalyst for asymmetric conjugate addition of α-substituted-α-cyanoacetates to α,β-unsaturated acetylenic esters.
- Phase transfer catalyzed enantioselective α-alkylation.
- Asymmetric amination of β-keto esters.



References:

- Tetrahedron Asymm.*, **2006**, 17, 603.
- J. Am. Chem. Soc.*, **2007**, 129, 1038.
- Angew. Chem. Int. Ed.*, **2009**, 48, 5014.
- Tetrahedron Lett.*, **2009**, 50, 3280.

07-0381

(S)-4,4-Dibutyl-2,6-bis(3,4,5-trifluorophenyl)-4,5-dihydro-3H-dinaphtho[7,6,1,2-cde]azepinium bromide [851942-89-7]
 [C₄₂H₃₆F₆N]⁺Br⁻; FW: 748.64; brown powdr.
 Note: Sold in collaboration with Nagase for research purposes only. US Patent 6,340,753.

50mg
250mg

Technical Note:

- See 07-0380.

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