**Rh₂(DOSP)₄ and Rh₂(PTAD)₄**

C-H Activation by means of Metal-Carbenoid-Induced C-H Insertion

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**45-2100 Rh₂(R-DOSP)₄**

shown

**45-2070 Rh₂(R-PTAD)₄**

shown

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Tetrakis[(R)-(+)·N-(p-dodecylphenylsulfonyl)prolinato]dirhodium(II) Rh₂(R-DOSP)₄

[C₂₃H₃₆NOS₄]₄Rh₂; FW: 1896.22; green pwd.; [α]D +165° (c 0.1, CHCl₃)

Note: Sold under license for research purposes.

Technical Notes:
1. Catalyst used for tandem asymmetric cyclopropanation/Cope rearrangement.
2. Catalyst used for an asymmetric [4 + 3] cycloaddition.

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Tetrakis[(S)-(-)-N-(p-dodecylphenylsulfonyl)prolinato]dirhodium(II) Rh₂(S-DOSP)₄

[C₂₃H₃₆NOS₄]₄Rh₂; FW: 1896.22; green pwd.; [α]D -165° (c 1.0, CHCl₃)

Note: Sold under license for research purposes.

Technical Note:
1. See 45-2100.

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Tetrakis[(R)-(-)-(1-adamantyl)-(N-phthalimido)acetato]dirhodium(II) Rh₂(R-PTAD)₄

[C₈₀H₈₀N₄O₁₆]₄Rh₂; FW: 1559.32; green pwd.; [α]D -40.6 (c 0.067, CHCl₃)

Note: Sold for research purposes only. US Patent Application 11/606,782.

Technical Note:
1. See 45-2070.

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Tetrakis[(S)-(+)-(1-adamantyl)-(N-phthalimido)acetato]dirhodium(II) $\text{Rh}_2(\text{S-PTAD})_4$ [909389-99-7]

$\text{C}_{80}\text{H}_{80}\text{N}_4\text{O}_{16}\text{Rh}_2$; FW: 1559.32; green pwdr.; $[\alpha]_D +39.1$ (c 0.2, CHCl$_3$)

Note: Sold for research purposes only. US Patent Application 11/606,782.

Technical Notes:
1. Enantioselective reactions of carbenoids and olefins.
2. Enantioselective C–H insertion reactions of carbenoids.
3. Enantioselective oxygen transfer from diazosulfonylamidines.

References: