Chiral phosphite-oxazolines: a new class of ligands for asymmetric Heck reactions

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Elemental analysis for compounds 4-9.

Anal. Calcd. For $C_{48}H_{58}NO_7P$: C, 72.80; H, 7.38; N, 1.77. Found: C, 72.61; H, 7.39; N, 1.72.

Anal. Calcd. For $C_{45}H_{60}NO_7P$: C, 71.31; H, 7.98; N, 1.85. Found: C, 71.44; H, 7.89; N, 1.88.

Anal. Calcd. For $C_{46}H_{62}NO_7P$: C, 71.57; H, 8.10; N, 1.81. Found: C, 71.64; H, 8.05; N, 1.78.

Anal. Calcd. For $C_{42}H_{46}NO_9P$: C, 68.19; H, 6.27; N, 1.89. Found: C, 68.09; H, 6.31; N, 1.81.

Anal. Calcd. For $C_{32}H_{26}NO_7P$: C, 67.72; H, 4.62; N, 2.47. Found: C, 67.84; H, 4.66; N, 2.39.

Anal. Calcd. For $C_{38}H_{42}NO_7PSi_2$: C, 64.11; H, 5.95; N, 1.97. Found: C, 64.19; H, 5.91; N, 1.89.

LIGAND 4

LIGAND 5

LIGAND 6

LIGAND 6

LIGAND 7

LIGAND 7

LIGAND 8

LIGAND 8

LIGAND 9

LIGAND 9