Strem Chemicals, Inc.

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Catalog # 15-1168 2-(Di-t-butylphosphino)-3-methoxy-6-methyl-2'-4'-6'-tri-i-propyl-1,1'-biphenyl, min. 98% RockPhos

Note: Patents: US 6,395,916, US 6,307,087

Technical Note

1. Ligand used in the palladium-catalyzed C-O bond forming reactions of secondary and primary alcohols with a range of aryl halides. Heterocyclic halides and, for the first time, electron-rich aryl halides can be coupled with secondary alcohols.

$$R \xrightarrow{\parallel} + HO \xrightarrow{R^1} \qquad \underbrace{\frac{[(\text{allyPdCl})_2], \mathbf{1}}{\text{Cs}_2\text{CO}_3, \text{toluene}}}_{\text{90° C}} \qquad R \xrightarrow{\parallel} Q \xrightarrow{R^1}$$

$$R^1 = \text{alkyl}$$

$$R^2 = \text{alkyl}, H$$

Reference:

1. Angew. Chem. Int. Ed., 2011, 50, 9943.