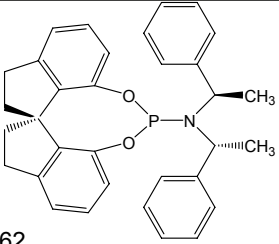
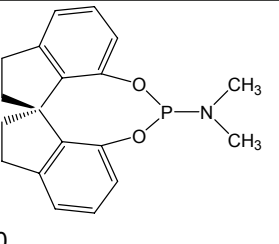
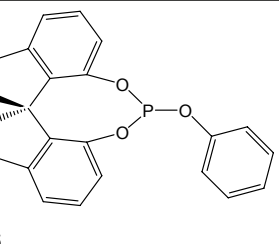
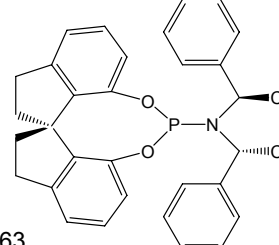
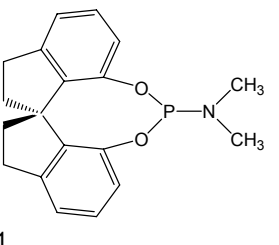
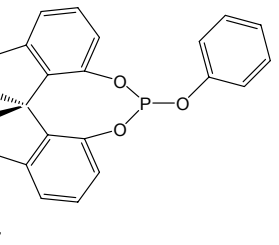


STREM Spiro Monophosphite and Monophosphoramidite Ligand Kit

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 <p>15-5162</p>	 <p>15-5150</p>	 <p>15-5156</p>
 <p>15-5163</p>	 <p>15-5151</p>	 <p>15-5157</p>

96-0065 Spiro Monophosphite and Monophosphoramidite Ligand Kit – for asymmetric catalytic hydrogenations and other transformations
Contains a 100mg unit of each of the items listed below.
Components available for individual sale. 1 kit

15-5162 (11aR)-(+)-10,11,12,13-Tetrahydrodiindenodiphosphite bis((R)-1-phenylethyl)amine, min. 98% (R)-SIPHOS-PE [500997-69-3] 100mg
500mg

Technical Notes:

- Ligand used for the asymmetric palladium-catalyzed hydrosilylation of styrenes. Preparation of chiral alcohols.
- Ligand used for the highly enantioselective nickel-catalyzed hydrovinylation of α -alkyl vinylarenes.

References:

- Tetrahedron: Asymmetry*, **2004**, 15, 2231.
- J. Am. Chem. Soc.*, **2006**, 128, 2780.

15-5163 (11aS)-(-)-10,11,12,13-Tetrahydrodiindenodiphosphite bis((R)-1-phenylethyl)amine, min. 98% (S)-SIPHOS-PE [500997-70-6] 100mg
500mg

Technical Note:

- See 15-5162.

15-5150 (11aR)-(+)-10,11,12,13-Tetrahydrodiindenodiphosphite dimethylamine, min. 98% (R)-SIPHOS [443965-14-8] 100mg
500mg

Technical Notes:

- Ligand used for the rhodium-catalyzed asymmetric Pauson-Khand reaction.
- Ligand used for the rhodium-catalyzed asymmetric hydrogenation of β -dehydroamino esters.

References:

- Adv. Synth. Catal.*, **2005**, 347, 759.
- J. Org. Chem.*, **2004**, 69, 4648.

15-5151 (11aS)-(-)-10,11,12,13-Tetrahydrodiindenodiphosphite dimethylamine, min. 98% (S)-SIPHOS [443965-10-4] 100mg
500mg

Technical Note:

- See 15-5150.

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Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950-4098
U.S.A.
Tel.: (978) 499-1600
Fax: (978) 465-3104
Email: info@strem.com

Strem Chemicals, Inc.
15, rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel.: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Telefon: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK
48 High Street
Orwell, Royston
England SG8 5QN
Tel.: 01223 207430
Fax: 01223 208138
Email: enquiries@strem.co.uk

15-5156	(11aR)-(+)-10,11,12,13-Tetrahydroindeno[7,1-de:1',7'-fg][1,3,2]dioxaphosphocin-5-phenoxy, min. 98% (R)-ShiP [656233-53-3]	100mg 500mg
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Technical Notes:

1. Ligand used in the enantioselective rhodium-catalyzed addition of arylboronic acids to aldehydes.
2. Ligand used in the palladium-catalyzed asymmetric hydrovinylation under mild conditions.
3. Ligand used in the highly regioselective, asymmetric copper-catalyzed allylic alkylation with dialkylzincs.

References:

1. *Org. Lett.*, **2006**, 8, 1479.
2. *Org. Lett.*, **2006**, 8, 2567.
3. *Tetrahedron: Asymmetry*, **2005**, 16, 705.
4. *Tetrahedron: Asymmetry*, **2003**, 14, 3867.

15-5157	(11aS)-(-)-10,11,12,13-Tetrahydroindeno[7,1-de:1',7'-fg][1,3,2]dioxaphosphocin-5-phenoxy, min. 98% (S)-ShiP [885701-71-3]	100mg 500mg
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Technical Note:

1. See 15-5156.
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Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950-4098
U.S.A.
Tel.: (978) 499-1600
Fax: (978) 465-3104
Email: info@strem.com

Strem Chemicals, Inc.
15, rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel.: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Telefon: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK
48 High Street
Orwell, Royston
England SG8 5QN
Tel.: 01223 207430
Fax: 01223 208138
Email: enquiries@strem.co.uk