

15-1653 (R)-Ph-Garphos™ 15-1654 (S)-Ph-Garphos™	15-1657 (R)-Tol-Garphos™ 15-1658 (S)-Tol-Garphos™	15-1661 (R)-Xyl-Garphos™ 15-1662 (S)-Xyl-Garphos™
15-1663 (R)-BTFM-Garphos™ 15-1664 (S)-BTFM-Garphos™	15-1666 (R)-DMM-Garphos™ 15-1667 (S)-DMM-Garphos™	15-1672 (R)-DTBM-Garphos™ 15-1673 (S)-DTBM-Garphos™

(R) structures shown

96-4100	Garphos™ Ligand Kit	1kit
Components available for individual sale. Contains 100mg unit size of the following items:		
15-1661	(R)-2,2'-Bis[bis(3,5-dimethylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (R)-Xyl-Garphos™ C ₄₈ H ₅₂ O ₄ P ₂ ; FW: 754.87; white xtl.	100mg 500mg
Technical Note:		
1. See 15-1653.		
15-1662	(S)-2,2'-Bis[bis(3,5-dimethylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (S)-Xyl-Garphos™ C ₄₈ H ₅₂ O ₄ P ₂ ; FW: 754.87; white xtl.	100mg 500mg
Technical Note:		
1. See 15-1653.		
15-1672	(R)-2,2'-Bis[bis(4-methoxy-3,5-di-t-butylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (R)-DTBM-Garphos™ C ₇₆ H ₁₀₈ O ₈ P ₂ ; FW: 1211.61; white xtl. <i>air sensitive, light sensitive</i>	100mg 500mg
15-1673	(S)-2,2'-Bis[bis(4-methoxy-3,5-di-t-butylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (S)-DTBM-Garphos™ C ₇₆ H ₁₀₈ O ₈ P ₂ ; FW: 1211.61; white xtl. <i>air sensitive, light sensitive.</i>	100mg 500mg
15-1666	(R)-2,2'-Bis[bis(4-methoxy-3,5-dimethylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (R)-DMM-Garphos™ C ₅₂ H ₆₀ O ₈ P ₂ ; FW: 874.98; white xtl.	100mg 500mg
Technical Note:		
1. See 15-1653.		
15-1667	(S)-2,2'-Bis[bis(4-methoxy-3,5-dimethylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (S)-DMM-Garphos™ C ₅₂ H ₆₀ O ₈ P ₂ ; FW: 874.98; white xtl.	100mg 500mg
Technical Note:		
1. See 15-1653.		

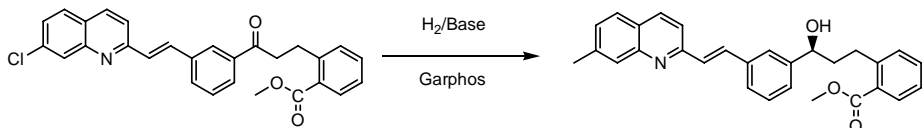
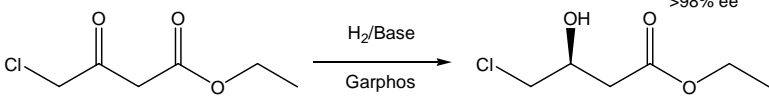
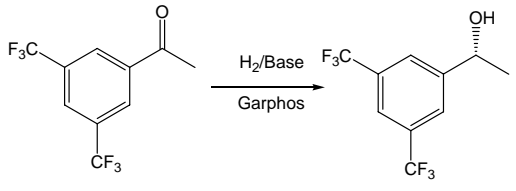
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15-1663 NEW→	(R)-2,2'-Bis[bis(3,5-trifluoromethylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (R)-BTfM-Garphos™ C ₄₈ H ₂₈ F ₂₄ O ₄ P ₂ ; FW: 1186.64; white xtl.	100mg 500mg
Technical Note: 1. See 15-1653.		
15-1664 NEW→	(S)-2,2'-Bis[bis(3,5-trifluoromethylphenyl)phosphino]-4,4',6,6'-tetramethoxybiphenyl, min. 97% (S)-BTfM-Garphos™ C ₄₈ H ₂₈ F ₂₄ O ₄ P ₂ ; FW: 1186.64; white xtl.	100mg 500mg
Technical Note: 1. See 15-1653.		
15-1653 NEW→	(R)-2,2'-Bis(diphenylphosphino)-4,4',6,6'-tetramethoxybiphenyl, min. 97% (R)-Ph-Garphos™ C ₄₀ H ₃₆ O ₄ P ₂ ; FW: 642.66; white xtl.	100mg 500mg
Technical Note: 1. Chiral ligand used in the preparation of hydrogenation catalysts with exceptionally high activity and selectivity.		
		Tech. Note. (1) Ref. (1)
		Tech. Note. (2) Ref. (1)
		Tech. Note. (3) Ref. (1)
Reference: 1. US Patent Application No. 61/381,493.		
15-1654 NEW→	(S)-2,2'-Bis(diphenylphosphino)-4,4',6,6'-tetramethoxybiphenyl, min. 97% (S)-Ph-Garphos™ C ₄₀ H ₃₆ O ₄ P ₂ ; FW: 642.66; white xtl.	100mg 500mg
Technical Note: 1. See 15-1653.		
15-1657 NEW→	(R)-2,2'-Bis(di-p-tolylphosphino)-4,4',6,6'-tetramethoxybiphenyl, min. 97% (R)-Tol-Garphos™ C ₄₄ H ₄₄ O ₄ P ₂ ; FW: 698.77; white xtl.	100mg 500mg
Technical Note: 1. See 15-1653.		
15-1658 NEW→	(S)-2,2'-Bis(di-p-tolylphosphino)-4,4',6,6'-tetramethoxybiphenyl, min. 97% (S)-Tol-Garphos™ C ₄₄ H ₄₄ O ₄ P ₂ ; FW: 698.77; white xtl.	100mg 500mg
Technical Note: 1. See 15-1653.		
air sensitive		
Note: Sold in collaboration with KCT. Patent US App No. 61/381,493.		

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