



Ligands and Catalysts Catalogue

Our chiral and C-X coupling ligands and catalysts

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General information

- Order conveniently by sending an email to: info@solvias.com
- All ligands are available on demand in multi kg amounts.
- Units marked in bold will typically be delivered from stock or within 3 to 4 weeks at the latest.
- Units marked in italics will typically be delivered within 4 to 6 weeks.
- Product specifications:
 - Identity and purity of each product is listed by NMR (31P and 1H).
 - Chemical purity is $\geq 97\%$ for chiral ligands and catalysts and $\geq 95\%$ for C-X coupling ligands, catalysts and organocatalysts.
 - Enantiomeric purity is typically 99% ee.
 - Test results for each manufactured product batch will be summarized in an analytical data sheet.

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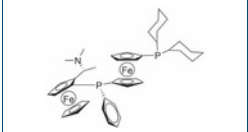
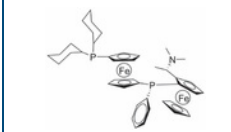
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Chiral ligands and catalysts

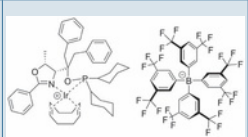
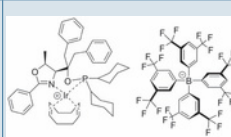
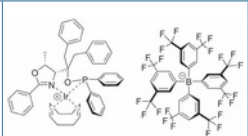
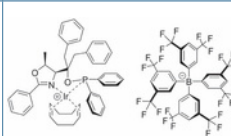
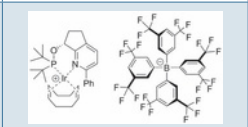
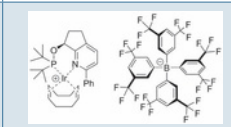
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	Molecular weight	Structural Formula		Molecular weight
				Structural Formula

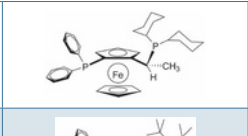
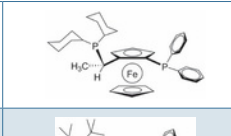
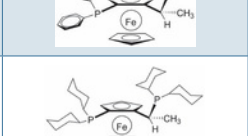
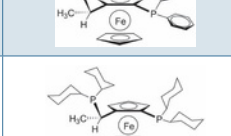
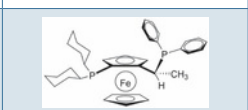
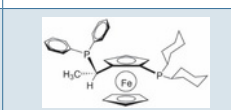
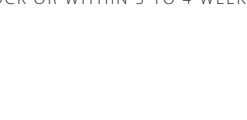

CHENPHOS LIGANDS

SL-F356-1 952586-19-5	1-Dicyclohexylphosphino-1'-[(S)P-[(S)Fc-2-[(R)C-1-(dimethylamino)ethyl]ferrocenyl]phenylphosphino] ferrocene C42H53Fe2NP2 745.54 g/mol		Chénphos	5g 50g 250g	SL-F356-2 1036373-39-3	1-Dicyclohexylphosphino-1'-[(R)P-[(R)Fc-2-[(S)C-1-(dimethylamino)ethyl]ferrocenyl]phenylphosphino] ferrocene C42H53Fe2NP2 745.54 g/mol	
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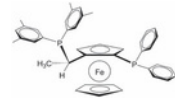
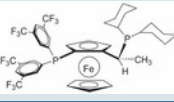
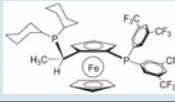
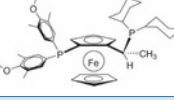
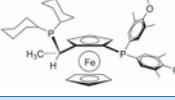
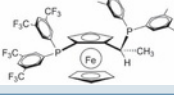
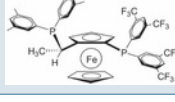
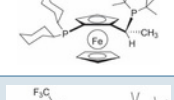
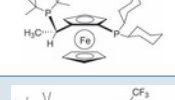
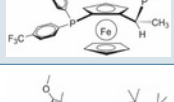
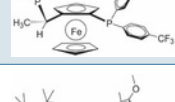


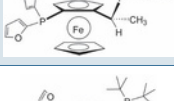
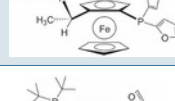
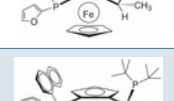
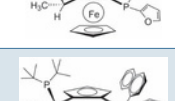


IR-UBAPHOX COMPLEXES

SK-X001-1a 880262-14-6	(4 <i>R</i> ,5 <i>R</i>)-[(η4-1,5- c yclooc tadiene)-[2-(2-phenyl-5-methyl-4,5- dihydro - oxazol-4-yl)-1,3- diphenyl-2-dic yclohex ylphosphinite -propane]iridium(I)]tetrakis[3,5-bis(trifluoromethyl)phenyl]borate C77H70BF24IrNO2P 1731.35 g/mol		Ubaphox	5g 50g 250g	SK-X001-2a 583844-38-6	(4 <i>S</i> ,5 <i>S</i>)-[(η4-1,5- c yclooc tadiene)-[2-(2-phenyl-5-methyl-4,5- dihydro - oxazol-4-yl)-1,3- diphenyl-2-dic yclohex ylphosphinite -propane]iridium(I)]tetrakis[3,5-bis(trifluoromethyl)phenyl]borate C77H70BF24IrNO2P 1731.35 g/mol	
SK-X002-1a 880262-16-8	(4 <i>R</i> ,5 <i>R</i>)-[(η4-1,5- c yclooc tadiene)-[2-(2-phenyl-5-methyl-4,5- dihydro - oxazol-4-yl)-1,3- diphenyl-2-diphenylphosphinite -propane]iridium(I)]tetrakis[3,5-bis(trifluoromethyl)phenyl]borate C77H58BF24IrNO2P 1719.25 g/mol		Ubaphox	5g 50g 250g	SK-X002-2a 405235-55-4	(4 <i>S</i> ,5 <i>S</i>)-[(η4-1,5-cyclooctadiene)-[2-(2-phenyl-5-methyl-4,5- dihydro - oxazol-4-yl)-1,3- diphenyl-2-diphenylphosphinite -propane]iridium(I)]tetrakis[3,5-bis(trifluoromethyl)phenyl]borate C77H58BF24IrNO2P 1719.25 g/mol	
SK-X003-1e 1488021-68-6	(7 <i>R</i>)-[(η4-1,5- c yclooc tadiene)-[7-(2-phenyl-6,7- dihydro - 5 <i>H</i> - c yclopenta[b]pyridin-7-yl)- di-(<i>ter t</i> -but yl)phosphinite]iridium(I)]tetrakis[3,5-bis(trifluoromethyl)phenyl]borate C62H54BF24IrNOP 1519.08 g/mol		Ubaphox	5g 50g 250g	SK-X003-2e 881310-39-0	(7 <i>S</i>)-[(η4-1,5- c yclooc tadiene)-[7-(2-phenyl-6,7- dihydro - 5 <i>H</i> - c yclopenta[b]pyridin-7-yl)- di-(<i>ter t</i> -but yl)phosphinite]iridium(I)]tetrakis[3,5-bis(trifluoromethyl)phenyl]borate C62H54BF24IrNOP 1519.08 g/mol	

JOSIPHOS LIGANDS

SL-J001-1 155806-35-2	(<i>R</i>)-1-[(<i>S</i>)-2-(Diphenylphosphino)ferrocenyl] ethyldicyclohexylphosphine ethanol adduct C36H44FeP2·C2H5OH 640.61 g/mol		Josiphos	5g 50g 250g	SL-J001-2 162291-02-3	(<i>S</i>)-1-[(<i>R</i>)-2-(Diphenylphosphino)ferrocenyl] ethyldicyclohexylphosphine ethanol adduct C36H44FeP2·C2H5OH 640.61 g/mol	
SL-J002-1 155830-69-6	(<i>R</i>)-1-[(<i>S</i>)-2-(Diphenylphosphino)ferrocenyl]ethyldi- <i>ter t</i> -but ylphosphine C32H40FeP2 542.46 g/mol		Josiphos	5g 50g 250g	SL-J002-2 277306-29-3	(<i>S</i>)-1-[(<i>R</i>)-2-(Diphenylphosphino)ferrocenyl]ethyldi- <i>ter t</i> -but ylphosphine C32H40FeP2 542.46 g/mol	
SL-J003-1 167416-28-6	(<i>R</i>)-1-[(<i>S</i>)-2-(Dic yclohex ylphosphino)ferrocenyl] ethyldicyclohexylphosphine C36H56FeP2 606.63 g/mol		Josiphos	5g 50g 250g	SL-J003-2 246231-77-6	(<i>S</i>)-1-[(<i>R</i>)-2-(Dic yclohex ylphosphino)ferrocenyl] ethyldicyclohexylphosphine C36H56FeP2 606.63 g/mol	
SL-J004-1 158923-09-2	(<i>R</i>)-1-[(<i>S</i>)-2-(Dic yclohex ylphosphino)ferrocenyl] ethyldiphenylphosphine C36H44FeP2 594.54 g/mol		Josiphos	5g 50g 250g	SL-J004-2 162291-01-2	(<i>S</i>)-1-[(<i>R</i>)-2-(Dic yclohex ylphosphino)ferrocenyl] ethyldiphenylphosphine C36H44FeP2 594.54 g/mol	

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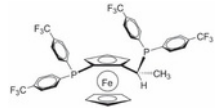
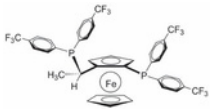
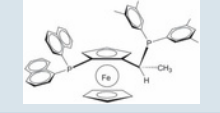
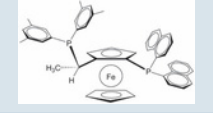
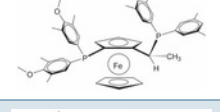
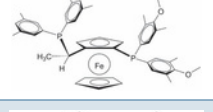
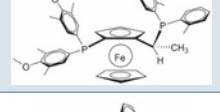
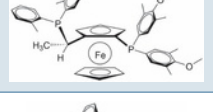
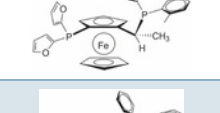
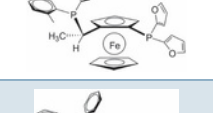
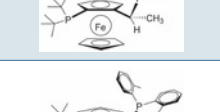
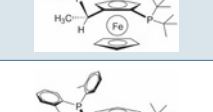
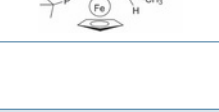
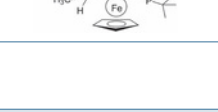
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SL-J005-1 184095-69-0	(R)-1-[(S)-2-(Diphenylphosphino)ferrocenyl]ethyldi(3,5-xyl)phosphine C40H40FeP2	638.55 g/mol		Josiphos	5g 50g 250g	SL-J005-2 223121-07-1	(S)-1-[(R)-2-(Diphenylphosphino)ferrocenyl]ethyldi(3,5-xyl)phosphine C40H40FeP2	638.55 g/mol	
SL-J006-1 292638-88-1	(R)-1-[(S)-2-Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethyldicyclohexylphosphine C40H40F12FeP2	866.53 g/mol		Josiphos	5g 50g 250g	SL-J006-2 849923-15-5	(S)-1-[(R)-2-Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethyldicyclohexylphosphine C40H40F12FeP2	866.53 g/mol	
SL-J007-1 360048-63-1	(R)-1-[(S)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyldicyclohexylphosphine C42H56FeO2P2	710.70 g/mol		Josiphos	5g 50g 250g	SL-J007-2 849923-88-2	(S)-1-[(R)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyldicyclohexylphosphine C42H56FeO2P2	710.70 g/mol	
SL-J008-1 166172-63-0	(R)-1-[(S)-2-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethyldi(3,5-xyl)phosphine C44H36F12FeP2	910.54 g/mol		Josiphos	5g 50g 250g	SL-J008-2 1272317-38-0	(S)-1-[(R)-2-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethyldi(3,5-xyl)phosphine C44H36F12FeP2	910.54 g/mol	
SL-J009-1 158923-11-6	(R)-1-[(S)-2-(Dicyclohexylphosphino)ferrocenyl]ethyldi-tert-butylphosphine C32H52FeP2	554.56 g/mol		Josiphos	5g 50g 250g	SL-J009-2 1246841-00-8	(S)-1-[(R)-2-(Dicyclohexylphosphino)ferrocenyl]ethyldi-tert-butylphosphine C32H52FeP2	554.56 g/mol	
SL-J011-1 246231-79-8	(R)-1-[(S)-2-[Bis[4-(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethyldi-tert-butylphosphine C34H38F6FeP2	678.46 g/mol		Josiphos	5g 50g 250g	SL-J011-2 849924-37-4	(S)-1-[(R)-2-[Bis[4-(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethyldi-tert-butylphosphine C34H38F6FeP2	678.46 g/mol	
SL-J013-1 187733-50-2	(R)-1-[(S)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyldi-tert-butylphosphine C38H52FeO2P2	658.62 g/mol		Josiphos	5g 50g 250g	SL-J013-2 849924-40-9	(S)-1-[(R)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyldi-tert-butylphosphine C38H52FeO2P2	658.62 g/mol	
SL-J015-1 649559-65-9	(R)-1-[(S)-2-[Di(2-furyl)phosphino]ferrocenyl]ethyldi(3,5-xyl)phosphine C36H36FeO2P2	618.47 g/mol		Josiphos	5g 50g 250g	SL-J015-2 649559-66-0	(S)-1-[(R)-2-[Di(2-furyl)phosphino]ferrocenyl]ethyldi(3,5-xyl)phosphine C36H36FeO2P2	618.47 g/mol	
SL-J212-1 849924-41-0	(R)-1-[(S)-2-[Di(2-furyl)phosphino]ferrocenyl]ethyldi-tert-butylphosphine C28H36FeO2P2	522.39 g/mol		Josiphos	5g 50g 250g	SL-J212-2 849924-42-1	(S)-1-[(R)-2-[Di(2-furyl)phosphino]ferrocenyl]ethyldi-tert-butylphosphine C28H36FeO2P2	522.39 g/mol	
SL-J216-1 849924-43-2	(R)-1-[(S)-2-[Di(1-naphthyl)phosphino]ferrocenyl]ethyldi-tert-butylphosphine C40H44FeP2	642.58 g/mol		Josiphos	5g 50g 250g	SL-J216-2 849924-44-3	(S)-1-[(R)-2-[Di(1-naphthyl)phosphino]ferrocenyl]ethyldi-tert-butylphosphine C40H44FeP2	642.58 g/mol	

Chiral ligands and catalysts

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Solvias No.	Chemical Name	Supplier's trade name	Solvias No.	Chemical Name
CAS No.	Molecular formula	Quantity	CAS No.	Molecular formula
	Molecular weight			Molecular weight
		Structural Formula		Structural Formula

JOSIPHOS LIGANDS continued...

SL-J403-1 166172-60-7	(R)-1-[(S)-2-[Bis[4-(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethylbis[4-(trifluoromethyl)phenyl]phosphine C40H28F12FeP2 854.42 g/mol		Josiphos	5g 50g 250g	SL-J403-2 1854066-56-0	(S)-1-[(R)-2-[Bis[4-(trifluoromethyl)phenyl]phosphino]ferrocenyl]ethylbis[4-(trifluoromethyl)phenyl]phosphine C40H28F12FeP2 854.42 g/mol	
SL-J404-1 851308-40-2	(R)-1-[(S)-2-[Di(1-naphthyl)phosphino]ferrocenyl]ethyl-di(3,5-xylyl)phosphine C48H44FeP2 738.68 g/mol		Josiphos	5g 50g 250g	SL-J404-2 851308-41-3	(S)-1-[(R)-2-[Di(1-naphthyl)phosphino]ferrocenyl]ethyl-di(3,5-xylyl)phosphine C48H44FeP2 738.68 g/mol	
SL-J418-1 849924-45-4	(R)-1-[(S)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyl-di(3,5-xylyl)phosphine C46H52FeO2P2 754.70 g/mol		Josiphos	5g 50g 250g	SL-J418-2 849924-48-7	(S)-1-[(R)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyl-di(3,5-xylyl)phosphine C46H52FeO2P2 754.70 g/mol	
SL-J425-1 849924-49-8	(R)-1-[(S)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyl-di-o-tolylphosphine C44H48FeO2P2 726.64 g/mol		Josiphos	5g 50g 250g	SL-J425-2 849924-52-3	(S)-1-[(R)-2-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]ferrocenyl]ethyl-di-o-tolylphosphine C44H48FeO2P2 726.64 g/mol	
SL-J452-1 849924-73-8	(R)-1-[(S)-2-[Di(2-furyl)phosphino]ferrocenyl]ethyl-di-o-tolylphosphine C34H32FeO2P2 590.42 g/mol		Josiphos	5g 50g 250g	SL-J452-2 849924-74-9	(S)-1-[(R)-2-[Di(2-furyl)phosphino]ferrocenyl]ethyl-di-o-tolylphosphine C34H32FeO2P2 590.42 g/mol	
SL-J502-1 223120-71-6	(R)-1-[(S)-2-(Di-ter-t-butylphosphino)ferrocenyl]ethyl-diphenylphosphine C32H40FeP2 542.46 g/mol		Josiphos	5g 50g 250g	SL-J502-2 223121-01-5	(S)-1-[(R)-2-(Di-ter-t-butylphosphino)ferrocenyl]ethyl-diphenylphosphine C32H40FeP2 542.46 g/mol	
SL-J505-1 849924-76-1	(R)-1-[(S)-2-(Di-ter-t-butylphosphino)ferrocenyl]ethyl-di-o-tolylphosphine C34H44FeP2 570.52 g/mol		Josiphos	5g 50g 250g	SL-J505-2 849924-77-2	(S)-1-[(R)-2-(Di-ter-t-butylphosphino)ferrocenyl]ethyl-di-o-tolylphosphine C34H44FeP2 570.52 g/mol	

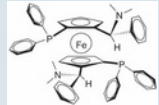
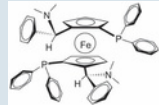
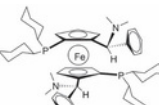
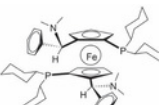
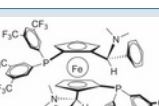
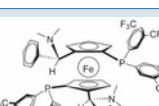
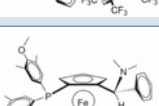
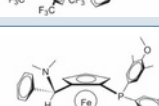
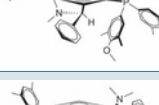
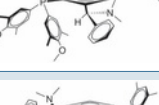
JOSPOPHOS LIGANDS

SL-J681-1 1221745-90-9	(S)Fc-1-[(R)P-ter-t-butylphosphinoyl]-2-[(S)-1-(diphenylphosphino)ethyl]ferrocene C28H32FeOP2 502.35 g/mol		JoSPOphos	5g 50g 250g	SL-J681-2 1221746-31-1	(R)Fc-1-[(S)P-ter-t-butylphosphinoyl]-2-[(S)-1-(diphenylphosphino)ethyl]ferrocene C28H32FeOP2 502.35 g/mol	
SL-J688-1 1221746-56-0	(S)Fc-1-[(R)P-Phenylphosphinoyl]-2-[(S)-1-(di-ter-t-butylphosphino)ethyl]ferrocene C26H36FeOP2 482.36 g/mol		JoSPOphos	5g 50g 250g	SL-J688-2 1221746-66-2	(R)Fc-1-[(S)P-Phenylphosphinoyl]-2-[(S)-1-(di-ter-t-butylphosphino)ethyl]ferrocene C26H36FeOP2 482.36 g/mol	

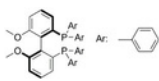
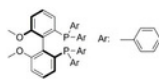
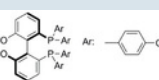
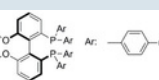
QUANTITIES MARKED IN **BOLD** WILL TYPICALLY BE DELIVERED FROM STOCK OR WITHIN 3 TO 4 WEEKS | QUANTITIES MARKED IN *ITALICS* WILL TYPICALLY BE DELIVERED WITHIN 4 TO 6 WEEKS

Solvias No. CAS No.	Chemical Name Molecular formula	Molecular weight	Structural Formula	Supplier's trade name	Quantity	Solvias No. CAS No.	Chemical Name Molecular formula	Molecular weight	Structural Formula
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MANDYPHOS LIGANDS

SL-M001-1 174467-31-3	(<i>S,S</i>)Fc-1,1'-Bis(diphenylphosphino)-2,2'-bis[(<i>R,R</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C52H50FeN2P2	820.77 g/mol		Mandyphos	5g 50g 250g	SL-M001-2 223725-09-5	(<i>R,R</i>)Fc-1,1'-Bis(diphenylphosphino)-2,2'-bis[(<i>S,S</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C52H50FeN2P2	820.77 g/mol	
SL-M002-1 494227-35-9	(<i>S,S</i>)Fc-1,1'-Bis(dicyclohexylphosphino)-2,2'-bis[(<i>R,R</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C52H74FeN2P2	844.97 g/mol		Mandyphos	5g 50g 250g	SL-M002-2 849924-78-3	(<i>R,R</i>)Fc-1,1'-Bis(dicyclohexylphosphino)-2,2'-bis[(<i>S,S</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C52H74FeN2P2	844.97 g/mol	
SL-M003-1 494227-36-0	(<i>S,S</i>)Fc-1,1'-Bis[bis(3,5-bis(trifluoromethyl)phenyl)phosphino]-2,2'-bis[(<i>R,R</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C60H42F24FeN2P2	1364.75 g/mol		Mandyphos	5g 50g 250g	SL-M003-2 849925-10-6	(<i>R,R</i>)Fc-1,1'-Bis[bis(3,5-bis(trifluoromethyl)phenyl)phosphino]-2,2'-bis[(<i>S,S</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C60H42F24FeN2P2	1364.75 g/mol	
SL-M004-1 876608-69-4	(<i>S,S</i>)Fc-1,1'-Bis[bis(4-methoxy-3,5-dimethylphenyl)phosphino]-2,2'-bis[(<i>R,R</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C64H74FeN2O4P2	1053.09 g/mol		Mandyphos	5g 50g 250g	SL-M004-2 849925-12-8	(<i>R,R</i>)Fc-1,1'-Bis[bis(4-methoxy-3,5-dimethylphenyl)phosphino]-2,2'-bis[(<i>S,S</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C64H74FeN2O4P2	1053.09 g/mol	
SL-M009-1 793718-16-8	(<i>S,S</i>)Fc-1,1'-Bis[bis(3,5-dimethylphenyl)phosphino]-2,2'-bis[(<i>R,R</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C60H66FeN2P2	933.01 g/mol		Mandyphos	5g 50g 250g	SL-M009-2 847997-73-3	(<i>R,R</i>)Fc-1,1'-Bis[bis(3,5-dimethylphenyl)phosphino]-2,2'-bis[(<i>S,S</i>)C-(<i>N,N</i> -dimethylamino)phenylmethyl]ferrocene C60H66FeN2P2	933.01 g/mol	

MEOBIPHEP LIGANDS

SL-A101-1 133545-16-1	(<i>R</i>)-2,2'-Bis(diphenylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C38H32O2P2	582.62 g/mol		MeOBIPHEP	5g 50g 250g	SL-A101-2 133545-17-2	(<i>S</i>)-2,2'-Bis(diphenylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C38H32O2P2	582.62 g/mol	
SL-A102-1 133545-24-1	(<i>R</i>)-2,2'-Bis(di- <i>p</i> -tolylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C42H40O2P2	638.73 g/mol		MeOBIPHEP	5g 50g 250g	SL-A102-2 133545-25-2	(<i>S</i>)-2,2'-Bis(di- <i>p</i> -tolylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C42H40O2P2	638.73 g/mol	

Chiral ligands and catalysts

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Solvias No. CAS No.	Chemical Name Molecular formula	Molecular weight	Structural Formula	Supplier's trade name	Quantity	Solvias No. CAS No.	Chemical Name Molecular formula	Molecular weight	Structural Formula
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MEOBIPHEP LIGANDS continued...

SL-A104-1 256390-47-3	(R)-2,2'-Bis[bis(3,4,5-trimethoxyphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C50H56O14P2	942.94 g/mol		MeOBIPHEP	5g 50g 250g	SL-A104-2 927396-01-8	(S)-2,2'-Bis[bis(3,4,5-trimethoxyphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C50H56O14P2	942.94 g/mol	
SL-A107-1 352655-40-4	(R)-2,2'-Bis[bis(3,5-diisopropyl-4-dimethylaminophenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C70H100N4O2P2	1091.55 g/mol		MeOBIPHEP	5g 50g 250g	SL-A107-2 919338-66-2	(S)-2,2'-Bis[bis(3,5-diisopropyl-4-dimethylaminophenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C70H100N4O2P2	1091.55 g/mol	
SL-A108-1 145214-57-9	(R)-2,2'-Bis(di-2-furylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C30H24O6P2	542.47 g/mol		MeOBIPHEP	50g 250g 5g 50g	SL-A108-2 145214-59-1	(S)-2,2'-Bis(di-2-furylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C30H24O6P2	542.47 g/mol	
SL-A109-1 352655-61-9	(R)-2,2'-Bis[bis(3,5-di-ter t-butyl-4-methoxyphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C74H104O6P2	1151.60 g/mol		MeOBIPHEP	250g 5g 50g 250g	SL-A109-2 910134-30-4	(S)-2,2'-Bis[bis(3,5-di-ter t-butyl-4-methoxyphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C74H104O6P2	1151.60 g/mol	
SL-A116-1 150971-45-2	(R)-2,2'-Bis(diisopropylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C26H40O2P2	446.56 g/mol		MeOBIPHEP	5g 50g 250g	SL-A116-2 150971-43-0	(S)-2,2'-Bis(diisopropylphosphino)-6,6'-dimethoxy-1,1'-biphenyl C26H40O2P2	446.56 g/mol	
SL-A120-1 394248-45-4	(R)-2,2'-Bis[di-3,5-xyllylphosphino]-6,6'-dimethoxy-1,1'-biphenyl C46H48O2P2	694.84 g/mol		MeOBIPHEP	5g 50g 250g	SL-A120-2 362634-22-8	(S)-2,2'-Bis[di-3,5-xyllylphosphino]-6,6'-dimethoxy-1,1'-biphenyl C46H48O2P2	694.84 g/mol	
SL-A121-1 192138-05-9	(R)-2,2'-Bis[bis(3,5-di-ter t-butylphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C70H96O2P2	1031.49 g/mol		MeOBIPHEP	5g 50g 250g	SL-A121-2 167709-31-1	(S)-2,2'-Bis[bis(3,5-di-ter t-butylphenyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl C70H96O2P2	1031.49 g/mol	

PFA LIGANDS

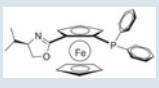
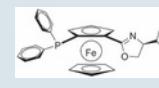
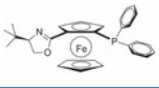
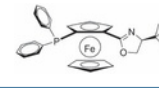
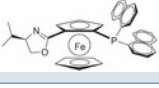



SL-F103-1 55700-44-2	(S)-1-[(R)-1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene C26H28FeNP	441.34 g/mol		PFA	5g 50g 250g	SL-F103-2 137695-36-4	(R)-1-[(S)-1-(Dimethylamino)ethyl]-2-(diphenylphosphino)ferrocene C26H28FeNP	441.34 g/mol	
SL-F171-1 607365-35-5	(S)-1-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]-2-[(R)-1-(dimethylamino)ethyl]ferrocene C32H40FeNO2P	557.50 g/mol		PFA	5g 50g 250g	SL-F171-2 1889392-50-0	(R)-1-[Bis(4-methoxy-3,5-dimethylphenyl)phosphino]-2-[(S)-1-(dimethylamino)ethyl]ferrocene C32H40FeNO2P	557.50 g/mol	
SL-F172-1 1613740-36-5	(S)-1-(Difurylphosphino)-2-[(R)-1-(dimethylamino)ethyl]ferrocene C22H24FeNO2P	421.26 g/mol		PFA	5g 50g 250g	SL-F172-2 1889392-49-7	(R)-1-(Difurylphosphino)-2-[(S)-1-(dimethylamino)ethyl]ferrocene C22H24FeNO2P	421.26 g/mol	

QUANTITIES MARKED IN **BOLD** WILL TYPICALLY BE DELIVERED FROM STOCK OR WITHIN 3 TO 4 WEEKS | QUANTITIES MARKED IN *ITALICS* WILL TYPICALLY BE DELIVERED WITHIN 4 TO 6 WEEKS

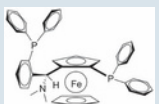
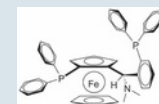
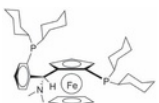

Solvias No. CAS No.	Chemical Name Molecular formula	Molecular weight	Structural Formula	Supplier's trade name	Quantity	Solvias No. CAS No.	Chemical Name Molecular formula	Molecular weight	Structural Formula
SL-F173-1 166172-70-9	(S)-1-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]-2-[(R)-1-(dimethylamino)ethyl]ferrocene C30H24F12FeNP	713.33 g/mol		PFA	5g 50g 250g	SL-F173-2 191233-65-5	(R)-1-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]-2-[(S)-1-(dimethylamino)ethyl]ferrocene C30H24F12FeNP	713.33 g/mol	
SL-F174-1 171817-39-3	(S)-1-(Dicyclohexylphosphino)-2-[(R)-1-(dimethylamino)ethyl]ferrocene C26H40FeNP	453.43 g/mol		PFA	5g 50g 250g	SL-F174-2 146960-92-1	(R)-1-(Dicyclohexylphosphino)-2-[(S)-1-(dimethylamino)ethyl]ferrocene C26H40FeNP	453.43 g/mol	

PFA LIGANDS continued...

POX LIGANDS AND RU COMPLEXES

SL-N003-1 1065474-88-5	(R,R)-(4,5-Dihydro-4-isopropyl-2-oxazolyl)-2-(diphenylphosphino)ferrocene C28H28FeNOP	481.36 g/mol		POx	5g 50g 250g	SL-N003-2 163169-10-6	(S,S)-(4,5-Dihydro-4-isopropyl-2-oxazolyl)-2-(diphenylphosphino)ferrocene C28H28FeNOP	481.36 g/mol	
SL-N004-1 1226898-27-6	(R,R)-(4,5-Dihydro-4-tert-butyl-2-oxazolyl)-2-(diphenylphosphino)ferrocene C29H30FeNOP	495.37 g/mol		POx	5g 50g 250g	SL-N004-2 163169-15-1	(S,S)-(4,5-Dihydro-4-tert-butyl-2-oxazolyl)-2-(diphenylphosphino)ferrocene C29H30FeNOP	495.37 g/mol	
SL-N011-1 1854070-87-3	(R,R)-(4,5-Dihydro-4-isopropyl-2-oxazolyl)-2-[di(1-naphthyl)phosphino]ferrocene C36H32FeNOP	581.48 g/mol		POx	5g 50g 250g	SL-N011-2 950201-43-1	(S,S)-(4,5-Dihydro-4-isopropyl-2-oxazolyl)-2-[di(1-naphthyl)phosphino]ferrocene C36H32FeNOP	581.48 g/mol	
SK-N003-1z 1312582-16-3	Dichloro[(R,R)-(4,5-Dihydro-4-isopropyl-2-oxazolyl-κN)-2-(diphenylphosphino-κP)ferrocene]triphenylphosphine ruthenium C46H43Cl2FeNOP2Ru	915.70 g/mol	 [RuCl ₂ (PN)(PPh ₃)] complex	POx	5g 50g 250g	SK-N003-2z 212133-11-4	Dichloro[(S,S)-(4,5-Dihydro-4-isopropyl-2-oxazolyl-κN)-2-(diphenylphosphino-κP)ferrocene]triphenylphosphine ruthenium C46H43Cl2FeNOP2Ru	915.70 g/mol	 [RuCl ₂ (PN)(PPh ₃)] complex

TANIAPHOS LIGANDS

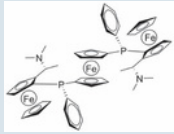
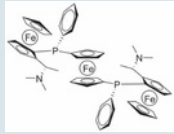
SL-T001-1 1003012-96-1	(R)-1-Diphenylphosphino-2-[(R)-(N,N-dimethylamino)-2-(diphenylphosphino)phenyl]methyl]ferrocene C43H39FeNP2	687.56 g/mol		Taniaphos	5g 50g 250g	SL-T001-2 850444-36-9	(S)-1-Diphenylphosphino-2-[(S)-(N,N-dimethylamino)-2-(diphenylphosphino)phenyl]methyl]ferrocene C43H39FeNP2	687.56 g/mol	
SL-T002-1 1156547-61-3	(R)-1-Dicyclohexylphosphino-2-[(R)-(N,N-dimethylamino)-2-(dicyclohexylphosphino)phenyl]methyl]ferrocene C43H63FeNP2	711.79 g/mol		Taniaphos	5g 50g 250g	SL-T002-2 914089-00-2	(S)-1-Dicyclohexylphosphino-2-[(S)-(N,N-dimethylamino)-2-(dicyclohexylphosphino)phenyl]methyl]ferrocene C43H63FeNP2	711.79 g/mol	

Chiral ligands and catalysts

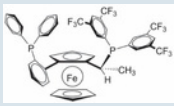
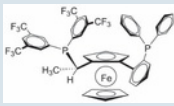
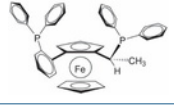
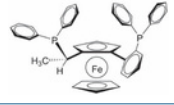
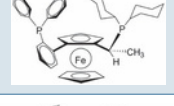
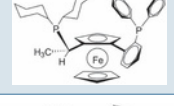
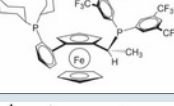
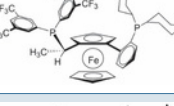
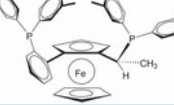
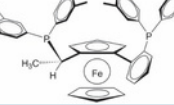

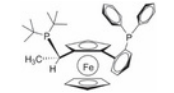
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Solvias No.	Chemical Name		Supplier's	Solvias No.	Chemical Name		Supplier's
CAS No.	Molecular formula	Molecular weight	trade name	CAS No.	Molecular formula	Molecular weight	trade name

TRIFER LIGANDS

SL-F131-1 899811-43-9	1,1'-Bis[(S)P-[(S)Fc-2-[(R)C-1-(dimethylamino)ethyl]ferrocenyl]phenylphosphino]ferrocene C50H54Fe3N2P2	912.46 g/mol		Trifer	5g 50g 250g	SL-F131-2 900505-82-0	1,1'-Bis[(R)P-[(R)Fc-2-[(S)C-1-(dimethylamino)ethyl]ferrocenyl]phenylphosphino]ferrocene C50H54Fe3N2P2	912.46 g/mol	
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WALPHOS LIGANDS

SL-W001-1 565184-32-0	(R)-1-[(R)-1-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C46H32F12FeP2	930.54 g/mol		Walphos	5g 50g 250g	SL-W001-2 849925-17-3	(S)-1-[(S)-1-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C46H32F12FeP2	930.54 g/mol	
SL-W002-1 565184-32-9	(R)-1-[(R)-1-(Diphenylphosphino)ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C42H36FeP2	658.54 g/mol		Walphos	5g 50g 250g	SL-W002-2 1854067-25-6	(S)-1-[(S)-1-(Diphenylphosphino)ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C42H36FeP2	658.54 g/mol	
SL-W003-1 565184-29-4	(R)-1-[(R)-1-(Dicyclohexylphosphino)ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C42H48FeP2	670.64 g/mol		Walphos	5g 50g 250g	SL-W003-2 849925-19-5	(S)-1-[(S)-1-(Dicyclohexylphosphino)ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C42H48FeP2	670.64 g/mol	
SL-W008-1 821009-34-1	(R)-1-[(R)-1-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ethyl]-2-[2-(dicyclohexylphosphino)phenyl]ferrocene C46H44F12FeP2	942.62 g/mol		Walphos	5g 50g 250g	SL-W008-2 849925-22-0	(S)-1-[(S)-1-[Bis[3,5-bis(trifluoromethyl)phenyl]phosphino]ethyl]-2-[2-(dicyclohexylphosphino)phenyl]ferrocene C46H44F12FeP2	942.62 g/mol	
SL-W009-1 894771-28-9	(R)-1-[(R)-1-[Di(3,5-xyl)phosphino]ethyl]-2-[2-[di(3,5-xyl)phosphino]phenyl]ferrocene C50H52FeP2	770.75 g/mol		Walphos	5g 50g 250g	SL-W009-2 849925-24-2	(S)-1-[(S)-1-[Di(3,5-xyl)phosphino]ethyl]-2-[2-[di(3,5-xyl)phosphino]phenyl]ferrocene C50H52FeP2	770.75 g/mol	
SL-W012-1 565184-30-7	(R)-1-[(R)-1-(Di-ter t-butylphosphino)ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C38H44FeP2	618.56 g/mol		Walphos	5g 50g 250g	SL-W012-2 1854067-37-0	(S)-1-[(S)-1-(Di-ter t-butylphosphino)ethyl]-2-[2-(diphenylphosphino)phenyl]ferrocene C38H44FeP2	618.56 g/mol	

Solvias No.	Chemical Name		Supplier's	Solvias No.	Chemical Name		Structural Formula
CAS No.	Molecular formula	Molecular weight	trade name	CAS No.	Molecular formula	Molecular weight	Structural Formula

WALPHOS LIGANDS continued...

SL-W029-1 1854067-50-7	(R)-1-[(R)-1-(Di- <i>tert</i> -butylphosphino)ethyl]-2-[2-(dic ylohex ylphosphino)phenyl]ferrocene C38H56FeP2 <i>630.66 g/mol</i>		Walphos	5g 50g <i>250g</i>	SL-W029-2 1854067-58-5	(S)-1-[(S)-1-(Di- <i>tert</i> -butylphosphino)ethyl]-2-[2-(dic ylohex ylphosphino)phenyl]ferrocene C38H56FeP2 <i>630.66 g/mol</i>	
SL-W030-1 1854067-62-1	(R)-1-[(R)-1-(Di- <i>tert</i> -butylphosphino)ethyl]-2-[2-(di- <i>tert</i> -butylphosphino)phenyl]ferrocene C34H52FeP2 <i>578.58 g/mol</i>		Walphos	5g 50g <i>250g</i>	SL-W030-2 1854067-71-2	(S)-1-[(S)-1-(Di- <i>tert</i> -butylphosphino)ethyl]-2-[2-(di- <i>tert</i> -butylphosphino)phenyl]ferrocene C34H52FeP2 <i>578.58 g/mol</i>	

C-X coupling catalysts









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







Solvias No. CAS No.	Chemical Name Molecular formula <i>Molecular weight</i>	Structure	Supplier's trade name	Quantity
SK-CC01-A 359803-53-5	Chloro(di-2-norbornylphosphino) [2-(dimethyl-amino-κN)(1,1'-biphenyl)-2-yl-κC]palladium(II) C28H37ClNPPd <i>560.45 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-CC02-A 614753-51-4	Chloro(di-2-norbornylphosphino) [2-(dimethyl-amino-κN)methylferrocen-1-yl-κC]palladium(II) C27H39ClFeNPPd <i>606.26 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-K319-1a 854019-82-2	(R)-1-[(S)-2-(Dicyclohexylphosphino-κP)ferrocenyl]ethyl(di-tert-butylphosphine-κP)dichloropalladium(II) C32H52Cl2FeP2Pd <i>731.87 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-K413-9d 172418-32-5	Bis[μ-(acetato-κO:κO')]bis[[2-[bis(2-methylphenyl)phosphino-κP]phenyl]methyl-κC]dipalladium(II) C46H46O4P2Pd2 <i>937.65 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-A108-1a 1338245-54-7	Dichloro[(R)-2,2'-bis(di-2-furylphosphino)-6,6'-dimethoxy-1,1'-biphenyl]palladium(II) C30H24Cl2O6P2Pd <i>719.78 g/mol</i>		C-X coupling catalyst	5g 50g <i>250g</i>

Solvias No. CAS No.	Chemical Name Molecular formula <i>Molecular weight</i>	Structure	Supplier's trade name	Quantity
SK-J002-1n 2049086-34-0	Chloro(4-cyanophenyl)[(R)-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethyl-di-tert-butylphosphine]nickel(II) C39H44ClFeNNiP2 <i>738.72 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-J003-1n 2049086-35-1	Chloro(4-cyanophenyl)[(R)-1-[(S)-2-(dicyclohexylphosphino)ferrocenyl]ethyl-dicyclohexylphosphine]nickel(II) C43H60ClFeNNiP2 <i>802.90 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-J004-1n 2049086-36-2	Chloro(4-cyanophenyl)[(R)-1-[(S)-2-(dicyclohexylphosphino)ferrocenyl]ethyl-diphenylphosphine]nickel(II) C43H48ClFeNNiP2 <i>790.80 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>
SK-J014-1n 20490-86-37-3	Chloro(4-cyanophenyl)[(R)-1-[(S)-2-[bis(4-fluorophenyl)phosphino]ferrocenyl]ethyl-di-tert-butylphosphine]nickel(II) C39H42ClF2FeNNiP2 <i>774.70 g/mol</i>		C-X coupling catalyst	5g <i>50g</i> <i>250g</i>

C-X coupling ligands

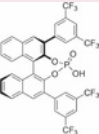
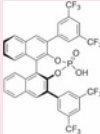

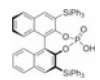
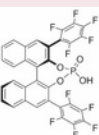
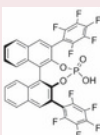
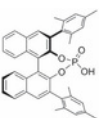
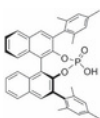
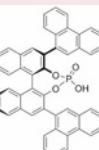
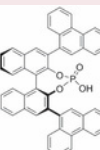
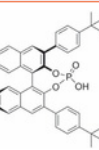
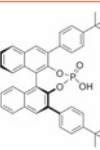
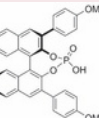
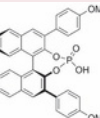
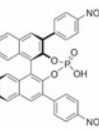
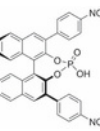
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Solvias No. CAS No.	Chemical Name Molecular formula <i>Molecular weight</i>	Structure	Supplier's trade name	Quantity
SL-K101-0 321921-71-5	Di(1-adamantyl)- <i>n</i> -butylphosphine C24H39P <i>358.55 g/mol</i>		cataCXium® A	5g 50g 250g
SL-K102-0 395116-70-8	Di(1-adamantyl)-benzylphosphine C27H37P <i>392.57 g/mol</i>		cataCXium® Abn	5g 50g 250g
SL-K103-0 714951-87-8	Di(1-adamantyl)- <i>n</i> -butylphosphine hydroiodide C24H40IP <i>486.46 g/mol</i>		cataCXium® AHI	5g 50g 250g
SL-K104-0 672937-60-9	2-(Dicyclohexylphosphino)-1-phenyl-1 <i>H</i> - pyrrole C22H30NP <i>339.46 g/mol</i>		cataCXium® PCy	5g 50g 250g
SL-K105-0 740815-36-5	2-(Dicyclohexylphosphino)-1- phenylindole C26H32NP <i>389.53 g/mol</i>		cataCXium® PI nCy	5g 50g 250g
SL-K106-0 672937-63-2	2-(Dicyclohexylphosphino)-1-(2- methoxyphenyl)-1 <i>H</i> -pyrrole C23H32NOP <i>369.49 g/mol</i>		cataCXium® POMeCy	5g 50g 250g
SL-K107-0 794527-14-3	1-(2,4,6-Trimethylphenyl)-2- dicyclohexylphosphinoimidazole C24H35N2P <i>382.53 g/mol</i>		cataCXium® PICy	5g 50g 250g
SL-K108-0 672937-61-0	1-Phenyl-2-(di- <i>tert</i> -butyl-phosphino)-1 <i>H</i> - pyrrole C18H26NP <i>287.39 g/mol</i>		cataCXium® PtB	5g 50g 250g

Solvias No. CAS No.	Chemical Name Molecular formula <i>Molecular weight</i>	Structure	Supplier's trade name	Quantity
SL-K109-0 740815-37-6	2-(Di- <i>tert</i> -butylphosphino)-1-phenylindole C22H28NP <i>337.44 g/mol</i>		cataCXium® PlntB	5g 50g 250g
SL-K110-0 1053658-91-5	2-(Di- <i>tert</i> -butylphosphino)-1-(2- methoxyphenyl)-1 <i>H</i> -pyrrole C19H28NOP <i>317.41 g/mol</i>		cataCXium® POMetB	5g 50g 250g
SL-K111-0 1007311-98-9	(9-Butyl-9-fluorenyl)dicyclohexyl- phosphonium tetrafluoroborate C29H40PBF4 <i>506.41 g/mol</i>		cataCXium® FBu	5g 50g 250g
SL-K112-0 1007311-95-6	Dicyclohexyl-[9-(3-phenylpropyl)-9- fluorenyl]phosphoniumtetrafluoroborate C34H42PBF4 <i>568.48 g/mol</i>		cataCXium® FPrPh	5g 50g 250g
SL-K113-0 1039775-34-2	Dicyclohexyl-[2-sulfo-9-[3-(4- sulfophenylpropyl)-9-fluorenyl]] phosphonium hydrogensulfate C34H43O10PS3 <i>738.88 g/mol</i>		cataCXium® FSulf	5g 50g 250g
SL-K114-0 937378-18-2	(9-Benzyl-9-fluorenyl)dicyclohexyl- phosphonium tetrafluoroborate C32H38PBF4 <i>540.42 g/mol</i>		cataCXium® FBn	5g 50g 250g
SL-K126-0 2179272-79-6	1-[2,6-Bis(cyclohexyloxy)phenyl]-2-(di- <i>tert</i> - butylphosphanyl)-1 <i>H</i> -imidazole C29H45N2O2P <i>484.66 g/mol</i>		cataCXium®	5g 50g 250g
SL-K127-0 1257847-61-2	2-[Bis(1-methylethyl)phosphino]-1- phenyl-1 <i>H</i> -pyrrole C16H22NP <i>259.33 g/mol</i>		cataCXium®	5g 50g 250g

Organocatalysts

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Solvias No. CAS No.	Chemical Name Molecular formula Molecular weight	Structural Formula	Supplier's trade name	Quantity	Solvias No. CAS No.	Chemical Name Molecular formula Molecular weight	Structural Formula
SL-O101-1 791616-62-1	(R)-3,3'-Bis[3,5-bis(trifluoromethyl)phenyl]-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C36H17F12O4P 772.48 g/mol		CPA	5g 50g 250g	SL-O101-2 878111-17-2	(S)-3,3'-Bis[3,5-bis(trifluoromethyl)phenyl]-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C36H17F12O4P 772.48 g/mol	
SL-O103-1 791616-55-2	(R)-3,3'-Bis(triphenylsilyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C56H41O4PSi2 865.08 g/mol		CPA	5g 50g 250g	SL-O103-2 929097-92-7	(S)-3,3'-Bis(triphenylsilyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C56H41O4PSi2 865.08 g/mol	
SL-O105-1 1284293-45-3	(R)-3,3'-Bis(2,3,4,5,6-pentafluorophenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C32H11F10O4P 680.39 g/mol		CPA	5g 50g 250g	SL-O105-2 1882075-20-8	(S)-3,3'-Bis(2,3,4,5,6-pentafluorophenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C32H11F10O4P 680.39 g/mol	
SL-O106-1 695162-87-9	(R)-3,3'-Bis(2,4,6-trimethylphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C38H33O4P 584.65 g/mol		CPA	5g 50g 250g	SL-O106-2 878111-18-3	(S)-3,3'-Bis(2,4,6-trimethylphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C38H33O4P 584.65 g/mol	
SL-O107-1 864943-22-6	(R)-3,3'-Bis(9-phenanthryl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C48H29O4P 700.73 g/mol		CPA	5g 50g 250g	SL-O107-2 1043567-32-3	(S)-3,3'-Bis(9-phenanthryl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C48H29O4P 700.73 g/mol	
SL-O108-1 861909-30-0	(R)-3,3'-Bis(4-tert-butylphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C40H37O4P 612.71 g/mol		CPA	5g 50g 250g	SL-O108-2 1217901-32-0	(S)-3,3'-Bis(4-tert-butylphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C40H37O4P 612.71 g/mol	
SL-O109-1 695162-88-0	(R)-3,3'-Bis(4-methoxyphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C34H25O6P 560.54 g/mol		CPA	5g 50g 250g	SL-O109-2 1374030-19-9	(S)-3,3'-Bis(4-methoxyphenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C34H25O6P 560.54 g/mol	
SL-O110-1 695162-89-1	(R)-3,3'-Bis(4-nitrophenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C32H19N2O8P 590.84 g/mol		CPA	5g 50g 250g	SL-O110-2 878111-16-1	(S)-3,3'-Bis(4-nitrophenyl)-1,1'-binaphthyl-2,2'-diyl hydrogenphosphate C32H19N2O8P 590.84 g/mol	

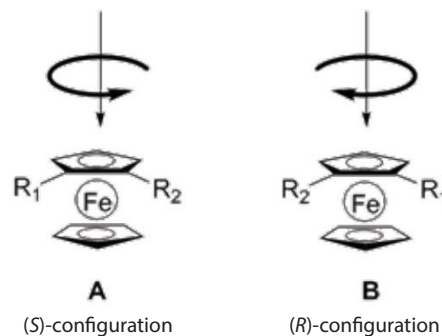
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Differences in nomenclature between Schögl and CAS for chiral ferrocenes

In the vast majority of published papers the configuration of the planar chiral ferrocene compounds is assigned according to the Schögl convention. Considering this fact, Solvias has decided to continue the determination of the stereochemical descriptors of chiral ferrocene compounds for its ligand portfolio exclusively according to the convention that was originally introduced by Schögl. To avoid any confusions, the two different concepts for the assignment of the planar chirality of ferrocenes (bis(cyclopentadienyl)iron) that are currently being applied are briefly outlined.

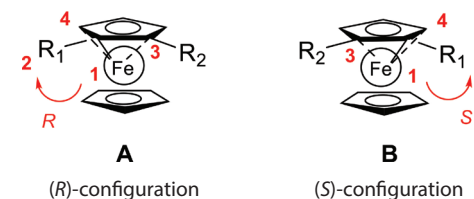
Schögl's nomenclature for chiral disubstituted ferrocenes

By applying Schögl's nomenclature to ferrocenes with two different substituents at the same cyclopentadienyl ring, the two substituents R_1 and R_2 are ranked according to the CIP rules. Viewing from the top of the (higher) substituted Cp-ring in direction of the Fe atom, the descriptor is assigned by going the shortest way from the higher ranked substituent to the lower ranked one either clockwise (R) or anticlockwise (S). If the ranking is $R_1 > R_2$, the stereochemical descriptor of compound **A** is (S) and of **B** (R).



CAS nomenclature for chiral ferrocenes

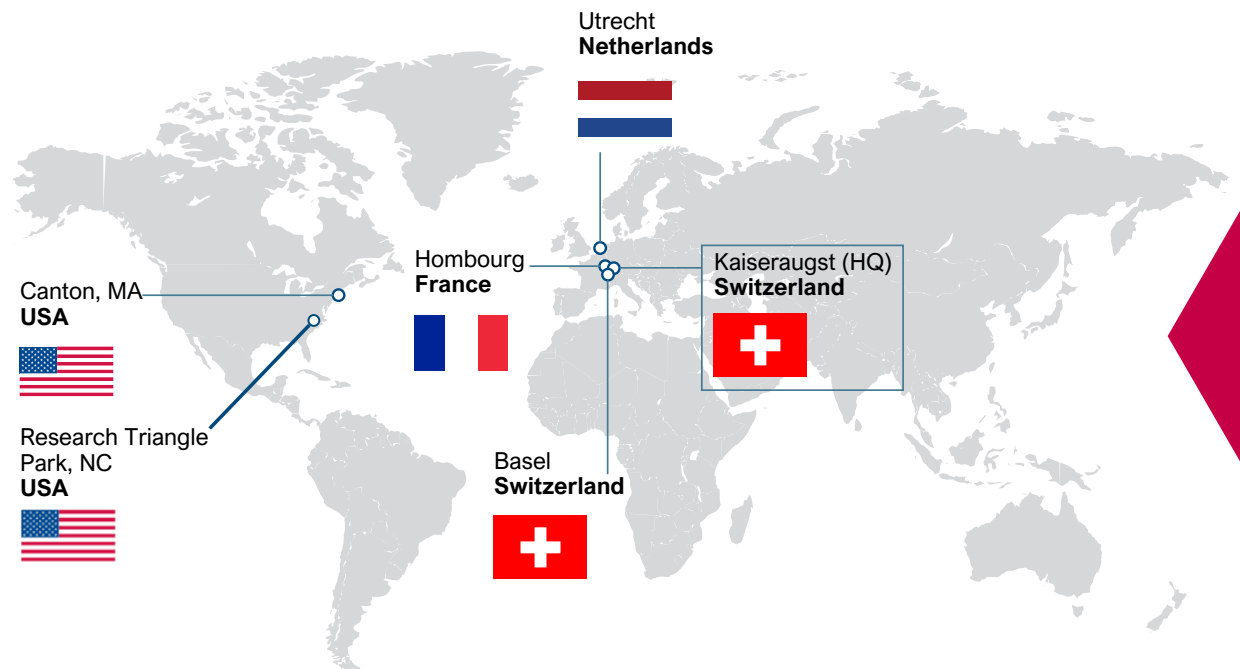
CAS uses a different nomenclature for the assignment of the planar chirality. According to this concept, each C-atom of the cyclopentadienyl ring is treated as a four-coordinated center, including the Fe-atom counting as one substituent. The chirality symbol is allocated to the cyclopentadienyl ring atom with the highest CIP priority. For example, if the CIP ranking of the cyclopentadienyl ring substituents is $R_1 > R_2$, the chirality descriptor is allocated to the $C(R_1)$ -atom. If the CIP priority at this $C(R_1)$ -atom is $Fe > R_1 > C(R_2) > C(H)$, the configuration for compound **A** is assigned as (R), for compound **B** as (S).



In conclusion, the stereochemical descriptors for the planar chirality of the same enantiomer of any substituted ferrocene derivative can be (R) or (S), whereby the correct descriptor is dependent on the chosen nomenclature.

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