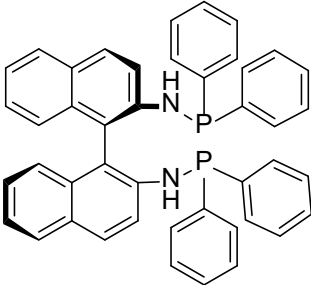
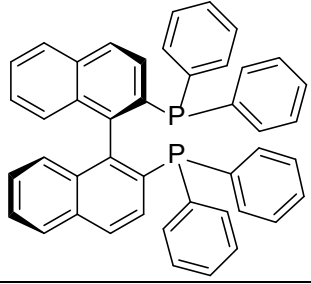
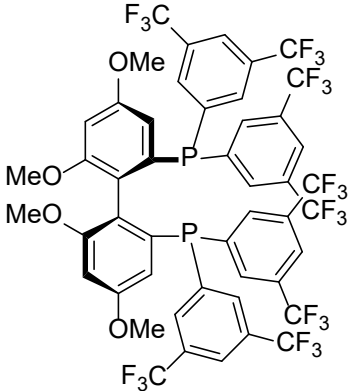
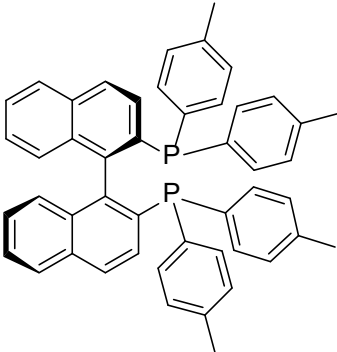
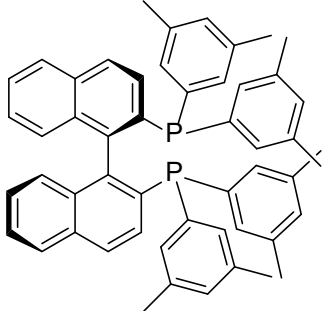
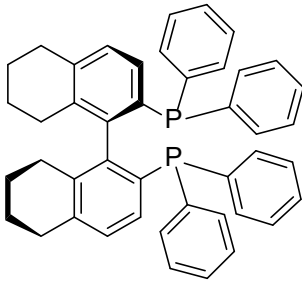
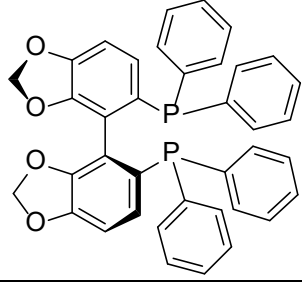
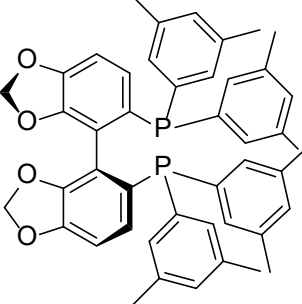
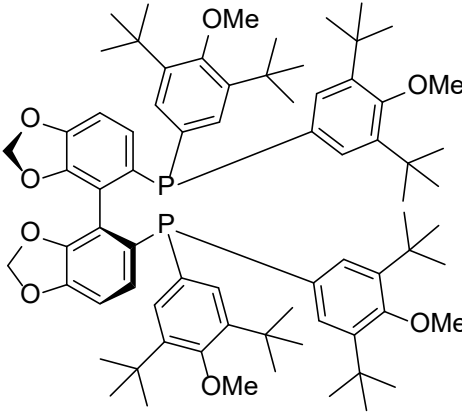
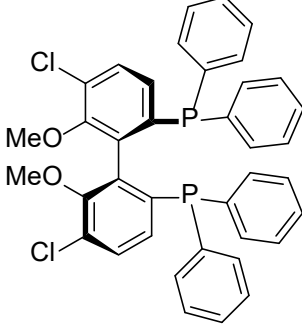
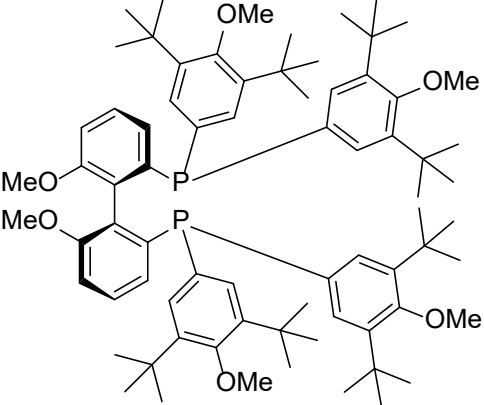
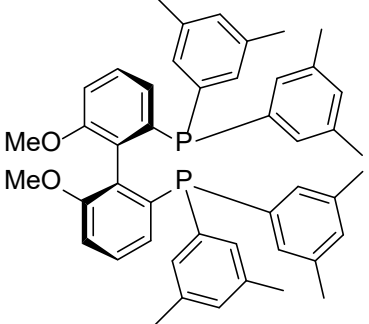
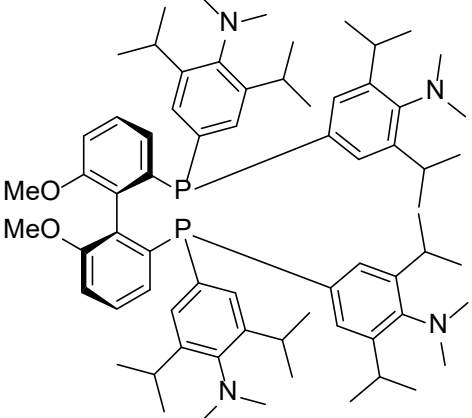
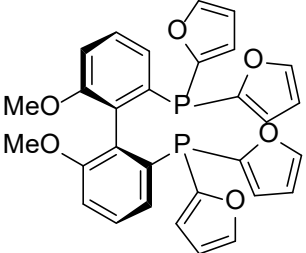
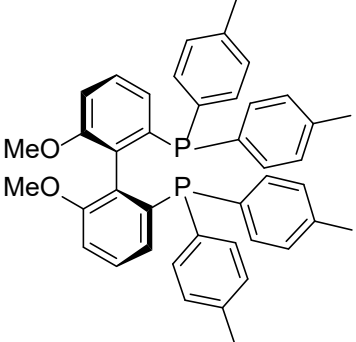
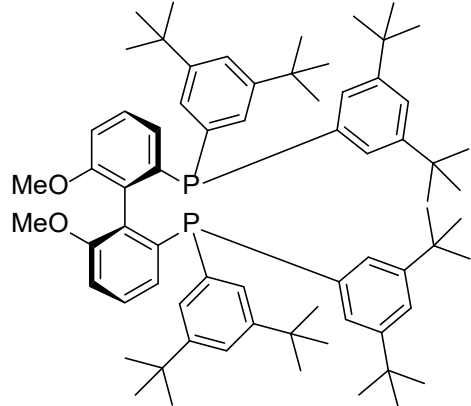
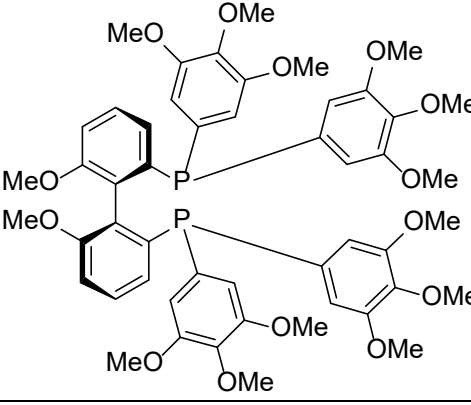
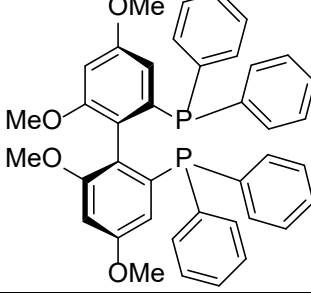
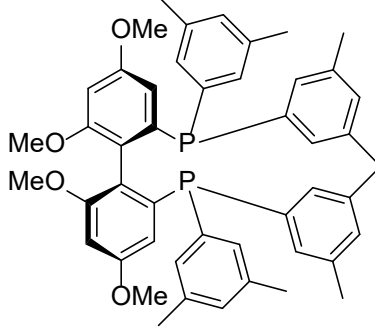
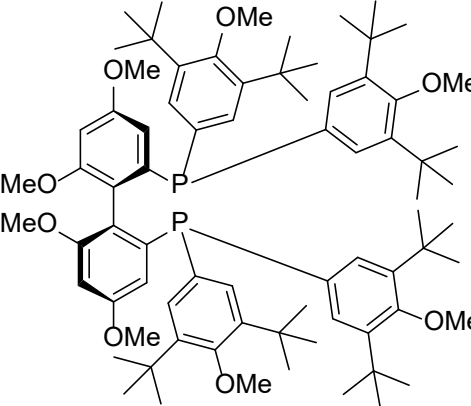


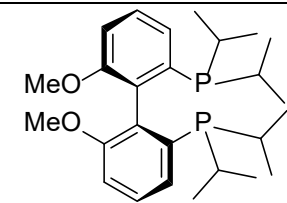
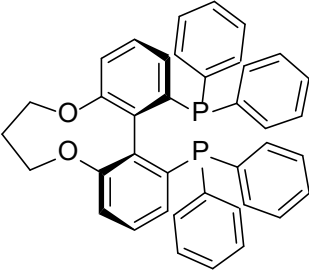
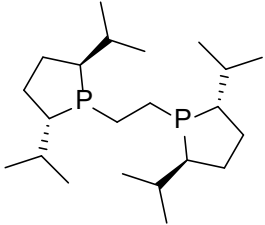
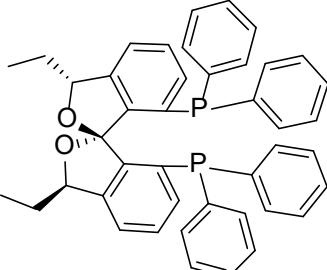
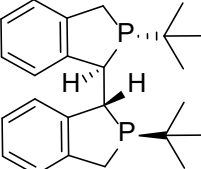
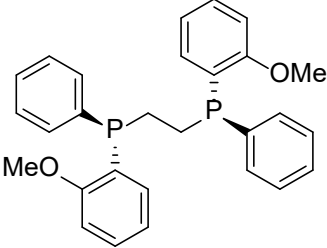
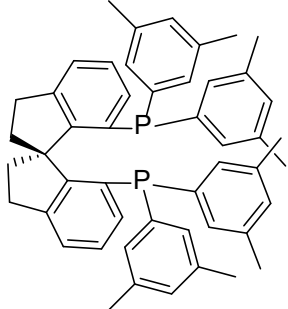
Definitive list of ligands (Jan '25)

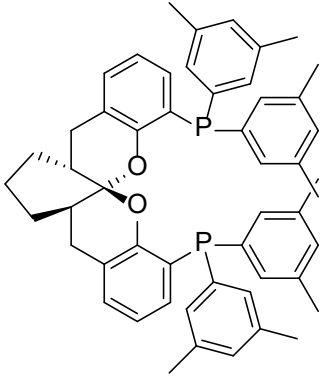
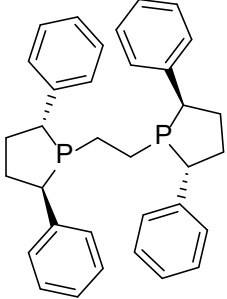
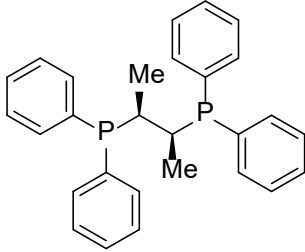
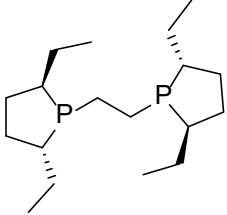
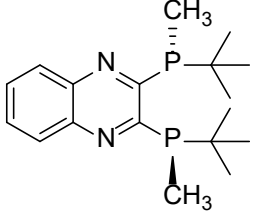
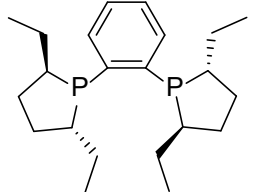
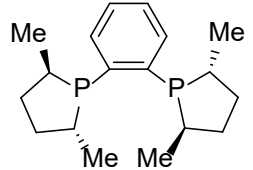
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L17		(<i>R</i>)-BINAM-P	74974-14-4	PP	C ₄₄ H ₃₄ N ₂ P ₂	1.02	652.72	Sigma-Aldrich	708615
L32		(<i>R</i>)-BINAP	76189-55-4	PP	C ₄₄ H ₃₂ P ₂	1.09	622.69	Sigma-Aldrich	693065
L33		(<i>R</i>)-BTfM-GarPhos	1365531-84-5	PP	C ₄₈ H ₂₈ F ₂₄ O ₄ P ₂	1.07	1186.66	STREM	15-1663
L34		(<i>R</i>)-Tol-BINAP	99646-28-3	PP	C ₄₈ H ₄₀ P ₂	1.04	678.80	Sigma-Aldrich	693049
L35		(<i>R</i>)-Xyl-BINAP (AKA (<i>R</i>)-DM-BINAP)	137219-86-4	PP	C ₅₂ H ₄₈ P ₂	1.05	734.90	Sigma-Aldrich	692379

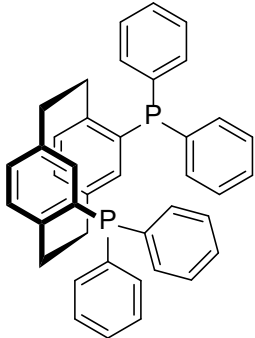
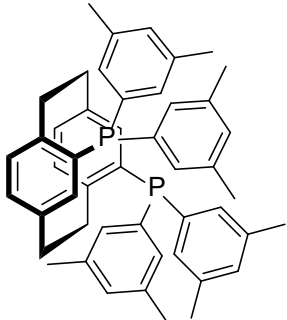
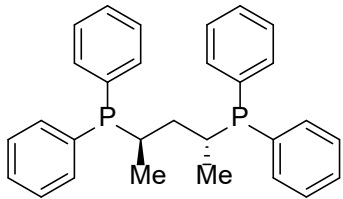
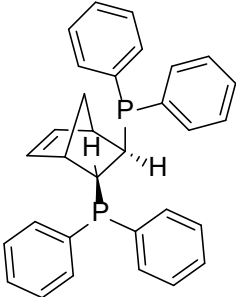
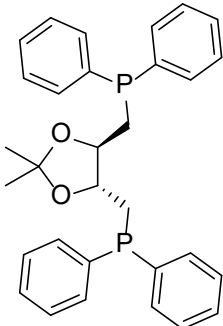
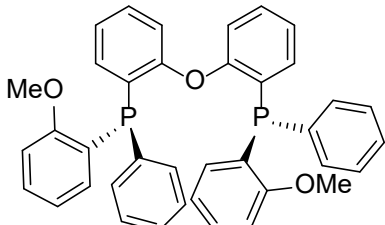
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L36		(<i>R</i>)-H ₈ -BINAP	139139-86-9	PP	C ₄₄ H ₄₀ P ₂	1.09	630.75	Sigma-Aldrich	692387
L37		(<i>S</i>)-SegPhos	210169-54-3	PP	C ₃₈ H ₂₈ O ₄ P ₂	1.09	610.59	Sigma-Aldrich	693006
L38		(<i>S</i>)-Xyl-SegPhos (AKA (<i>S</i>)-DM-SegPhos)	210169-57-6	PP	C ₄₆ H ₄₄ O ₄ P ₂	1.05	722.80	Sigma-Aldrich	692999
L39		(<i>S</i>)-DTBM-SegPhos	210169-40-7	PP	C ₇₄ H ₁₀₀ O ₈ P ₂	1.09	1179.55	Sigma-Aldrich	692980
L40		(<i>R</i>)-Cl-MeO-BIPHEP	185913-97-7	PP	C ₃₈ H ₃₀ Cl ₂ O ₂ P ₂	1.00	651.50	Sigma-Aldrich	96738

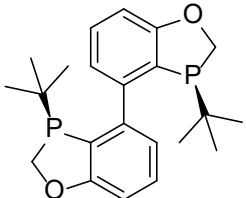
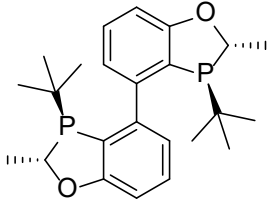
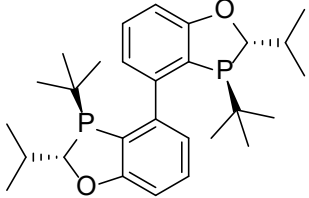
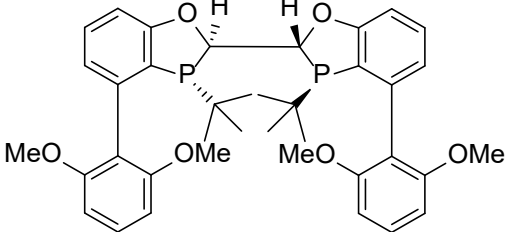
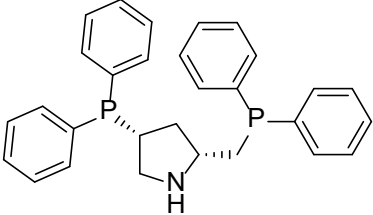
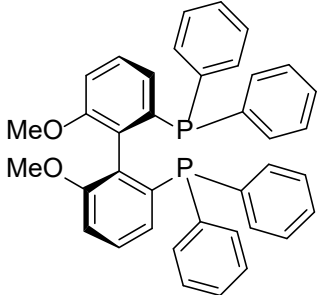
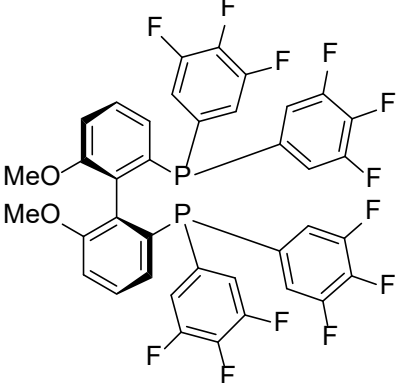
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L41		SL-A109-1	352655-61-9	PP	C ₇₄ H ₁₀₄ O ₆ P ₂	1.01	1151.59	Sigma-Aldrich	29512
L42		SL-A120-1	394248-45-4	PP	C ₄₆ H ₄₈ O ₂ P ₂	1.07	694.84	Sigma-Aldrich	29516
L43		SL-A107-1	352655-40-4	PP	C ₇₀ H ₁₀₀ N ₄ O ₂ P ₂	1.02	1091.54	Sigma-Aldrich	29528
L44		SL-A108-2	145214-59-1	PP	C ₃₀ H ₂₄ O ₆ P ₂	1.08	542.46	Sigma-Aldrich	29515
L45		SL-A102-2	133545-25-2	PP	C ₄₂ H ₄₀ O ₂ P ₂	1.01	638.73	Sigma-Aldrich	29521

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L46		SL-A121-1	192138-05-9	PP	C ₇₀ H ₉₆ O ₂ P ₂	1.10	1031.48	Sigma-Aldrich	29524
L47		SL-A104-1	256390-47-3	PP	C ₅₀ H ₅₆ O ₁₄ P ₂	1.05	942.93	Sigma-Aldrich	29526
L48		(<i>R</i>)-GarPhos	1365531-75-4	PP	C ₄₀ H ₃₆ O ₄ P ₂	1.06	642.67	Sigma-Aldrich	754927
L49		(<i>R</i>)-Xyl-GarPhos	1365531-89-0	PP	C ₄₈ H ₅₂ O ₄ P ₂	1.00	754.89	Sigma-Aldrich	761389
L50		(<i>R</i>)-DTBM-GarPhos	1365531-98-1	PP	C ₇₆ H ₁₀₈ O ₈ P ₂	1.03	1211.64	Sigma-Aldrich	761419

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L51		(S)-iPr-BIPHEP	150971-43-0	PP	C ₂₆ H ₄₀ O ₂ P ₂	1.03	446.55	STREM	15-0655
L52		(R)-C ₃ -TunePhos	301847-89-2	PP	C ₃₉ H ₃₂ O ₂ P ₂	1.05	594.63	STREM	15-0175
L53		(S,S)-iPr-BPE	528854-34-4	PP	C ₂₂ H ₄₄ P ₂	1.07	370.54	Sigma-Aldrich	668435
L54		(R,R,R)-SPIRAP (AKA (R)-CrabPhos)	NA	PP	C ₄₃ H ₃₈ O ₂ P ₂	1.03	648.72	Sigma-Aldrich	905240
L55		(R,R,S,S)-DuanPhos	528814-26-8	PP	C ₂₄ H ₃₂ P ₂	1.09	382.46	Sigma-Aldrich	657697
L56		(R,R)-DIPAMP	55739-58-7	PP	C ₂₈ H ₂₈ O ₂ P ₂	1.06	458.48	Sigma-Aldrich	697761
L59		(R)-Xyl-SDP	917377-75-4	PP	C ₄₉ H ₅₀ P ₂	1.04	700.89	STREM	15-5168

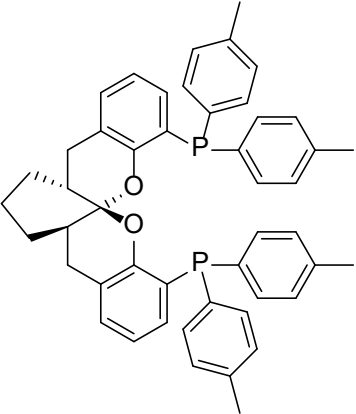
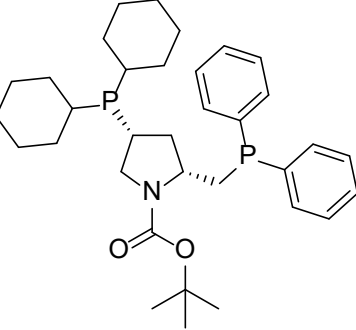
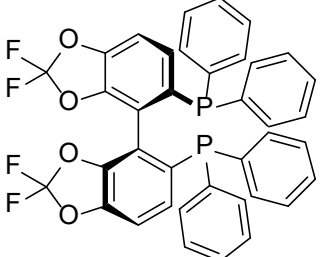
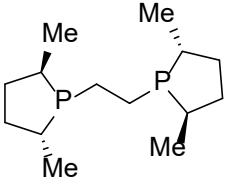
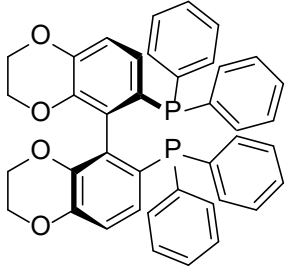
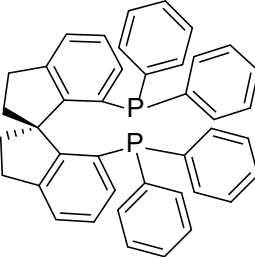
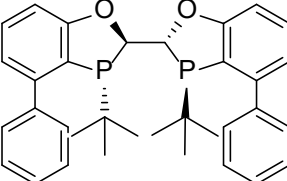
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L63		(<i>R,R,R</i>)-Xyl-SKP	1429939-35-4	PP	C ₅₂ H ₅₄ O ₂ P ₂	1.03	772.95	STREM	15-4320
L64		(<i>R,R</i>)-Ph-BPE	528565-79-9	PP	C ₃₄ H ₃₆ P ₂	1.09	506.61	Sigma-Aldrich	667811
L65		(<i>S,S</i>)-ChiraPhos	64896-28-2	PP	C ₂₈ H ₂₈ P ₂	1.04	426.48	Sigma-Aldrich	259098
L66		(<i>R,R</i>)-Et-BPE	136705-62-9	PP	C ₁₈ H ₃₆ P ₂	1.06	314.43	Sigma-Aldrich	668478
L67		(<i>R</i>)-QuinoxP	866081-62-1	PP	C ₁₈ H ₂₈ N ₂ P ₂	1.06	334.38	Sigma-Aldrich	676403
L68		(<i>R,R</i>)-Et-DuPhos	136705-64-1	PP	C ₂₂ H ₃₆ P ₂	1.04	362.48	Sigma-Aldrich	668494
L69		(<i>R,R</i>)-Me-DuPhos	147253-67-6	PP	C ₁₈ H ₂₈ P ₂	1.08	306.37	Sigma-Aldrich	665258

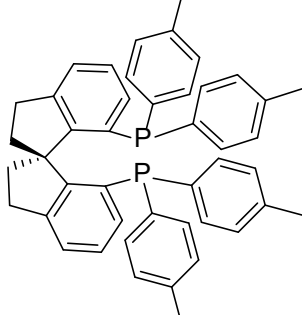
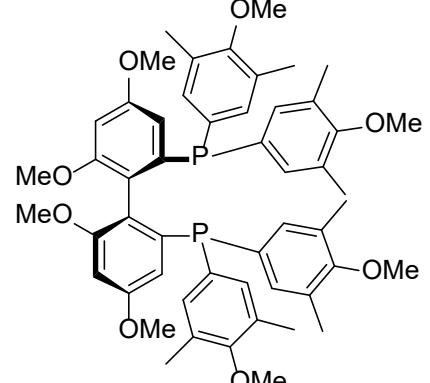
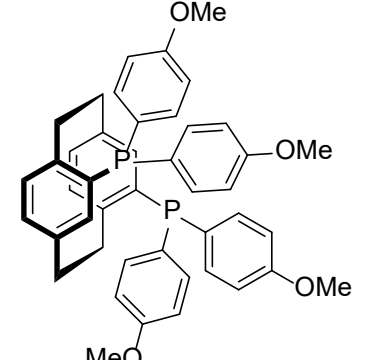
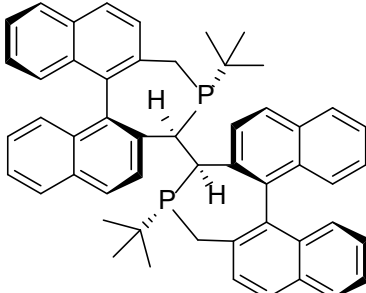
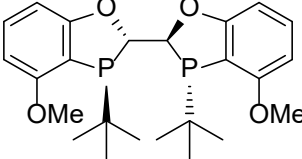
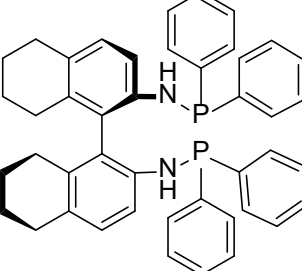
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L70		(S)-PhanePhos	192463-40-4	PP	C ₄₀ H ₃₄ P ₂	1.09	576.66	Sigma-Aldrich	682136
L75		(R)-Xyl-PhanePhos	325168-89-6	PP	C ₄₈ H ₅₀ P ₂	1.08	688.88	Sigma-Aldrich	682306
L77		(R,R)-BDPP	96183-46-9	PP	C ₂₉ H ₃₀ P ₂	1.09	440.51	STREM	15-0432
L78		(R,R)-NorPhos	71042-55-2	PP	C ₃₁ H ₂₈ P ₂	1.09	462.51	STREM	15-0140
L80		(R,R)-DIOP	32305-98-9	PP	C ₃₁ H ₃₂ O ₂ P ₂	1.07	498.54	Sigma-Aldrich	237655
L82		(S,S)-DPE-Phos	2119686-55-2	PP	C ₃₈ H ₃₂ O ₃ P ₂	1.06	598.62	STREM	15-1279

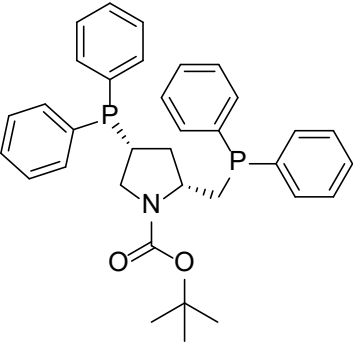
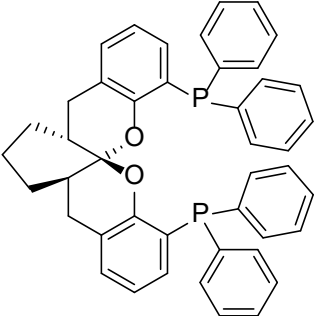
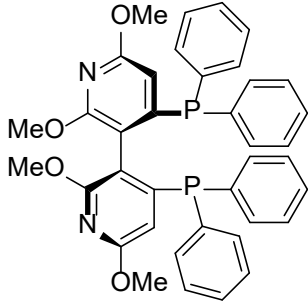
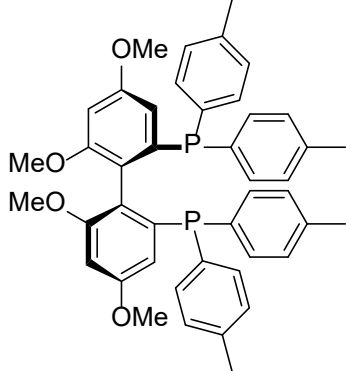
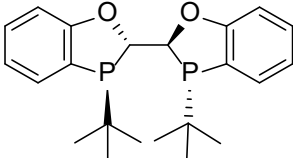
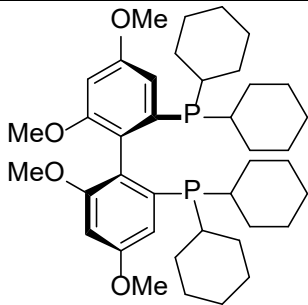
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L84		(S,S)-BABIBOP	2207601-04-3	PP	C ₂₂ H ₂₈ O ₂ P ₂	1.03	386.41	STREM	15-6410
L85		(S,S,S,S)-Me-BABIBOP	2207601-10-1	PP	C ₂₄ H ₃₂ O ₂ P ₂	1.06	414.47	STREM	15-6420
L86		(S,S,S,S)-iPr-BABIBOP	2207601-12-3	PP	C ₂₈ H ₄₀ O ₂ P ₂	1.08	470.57	STREM	15-6430
L87		(R,R,R,R)-Bis-BIDIME	1884680-48-1	PP	C ₃₈ H ₄₄ O ₆ P ₂	1.03	658.71	STREM	15-6240
L88		(R,R)-PPM	77450-05-6	PP	C ₂₉ H ₂₉ NP ₂	1.05	453.51	STREM	15-7210
L89		SL-A101-1	133545-16-1	PP	C ₃₈ H ₃₂ O ₂ P ₂	1.03	582.62	Sigma-Aldrich	29510
L90		(S)-MeO-F ₁₂ -BIPHEP	116008-37-6	PP	C ₃₈ H ₂₀ F ₁₂ O ₂ P ₂	1.06	798.50	Kanto	25971-95

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L91		(R)-MeO-F ₁₆ -BIPHEP	NA	PP	C ₄₂ H ₂₄ F ₁₆ O ₂ P ₂	1.03	926.57	Kanto	2022-008K
L92		(R)-MeO-Py-F ₁₂ -BIPHEP	NA	PP	C ₃₈ H ₂₄ F ₁₂ N ₄ O ₂ P ₂	1.06	858.56	Kanto	2022-009K
L93		(R)-MeO-F ₂₀ -BIPHEP	NA	PP	C ₄₂ H ₂₀ F ₂₀ O ₂ P ₂	1.02	998.54	Kanto	2022-010K
L94		(R)-MeO-BFPy-BIPHEP	NA	PP	C ₄₂ H ₂₀ F ₂₄ N ₄ O ₂ P ₂	1.03	1130.56	Kanto	2022-011K
L95		(S,S)-XylISKEWPhos	551950-92-6	PP	C ₃₇ H ₄₆ P ₂	1.08	552.72	Kanto	05843-68

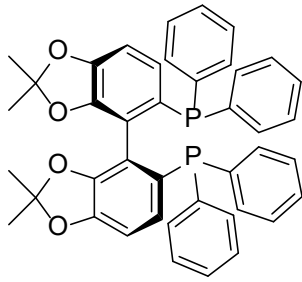
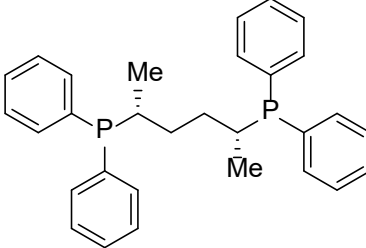
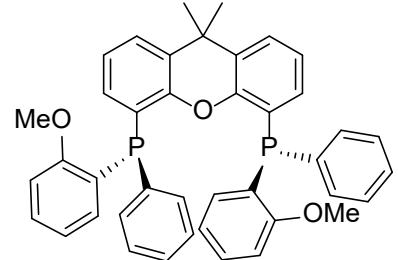
#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L98		catASium D(<i>R</i>)	99135-95-2	PP	C ₃₅ H ₃₃ NP ₂	1.02	529.60	abcr	AB152827
L106		(<i>R</i>)-Xyl-P-Phos	442905-33-1	PP	C ₄₆ H ₅₀ N ₂ O ₄ P ₂	1.06	756.86	STREM	15-5210
L108		(<i>R</i>)-ProPhos	67884-32-6	PP	C ₂₇ H ₂₆ P ₂	1.06	412.45	STREM	15-0440
L110		(2 <i>S</i> ,3 <i>R</i>)-MeO-POP	1215081-28-9	PP	C ₂₀ H ₃₄ O ₂ P ₂	1.04	368.44	STREM	15-6280
L111		(<i>R,R</i>)-BenzP*	919778-41-9	PP	C ₁₆ H ₂₈ P ₂	1.08	282.35	STREM	15-0166
L113		(<i>S,S</i>)-1-Naphthyl-DIPAMP	256469-70-2	PP	C ₃₄ H ₂₈ P ₂	1.00	498.55	Sigma-Aldrich	697788

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L118		(<i>R,R,R</i>)-Tol-SKP	1429939-32-1	PP	C ₄₈ H ₄₆ O ₂ P ₂	1.01	716.84	STREM	15-4330
L119		(<i>R,R</i>)-BCPM	114751-47-2	PP	C ₃₄ H ₄₉ NO ₂ P ₂	1.06	565.72	STREM	15-7220
L120		(<i>R</i>)-DiFluorPhos	503538-69-0	PP	C ₃₈ H ₂₄ F ₄ O ₄ P ₂	1.04	682.55	STREM	15-0486
L121		(<i>R,R</i>)-Me-BPE	129648-07-3	PP	C ₁₄ H ₂₈ P ₂	1.10	258.33	STREM	15-0104
L122		(<i>R</i>)-SynPhos	445467-61-8	PP	C ₄₀ H ₃₂ O ₄ P ₂	1.06	638.64	STREM	15-0490
L125		(<i>R</i>)-SDP	917377-74-3	PP	C ₄₁ H ₃₄ P ₂	1.07	588.67	STREM	15-5174
L126		(<i>R,R,R,R</i>)-Ph-BIBOP	2301856-53-9	PP	C ₃₄ H ₃₆ O ₂ P ₂	1.04	538.61	STREM	15-6260

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L129		(<i>R</i>)-Tol-SDP	528521-87-1	PP	C ₄₅ H ₄₂ P ₂	1.09	644.78	STREM	15-5180
L130		(<i>R</i>)-DMM-GarPhos	1365531-93-6	PP	C ₅₂ H ₆₀ O ₈ P ₂	1.00	874.99	STREM	15-1666
L133		(<i>R</i>)-An-PhanePhos	364732-86-5	PP	C ₄₄ H ₄₂ O ₄ P ₂	1.01	696.76	STREM	15-0710
L134		(<i>S</i>)-BINAPINE	528854-26-4	PP	C ₅₂ H ₄₈ P ₂	1.00	734.90	STREM	15-1053
L138		(<i>S,S,S,S</i>)-MeO-BIBOP	1202033-19-9	PP	C ₂₄ H ₃₂ O ₄ P ₂	1.03	446.46	STREM	15-6255
L139		(<i>R</i>)-CTH-BINAM	208248-67-3	PP	C ₄₄ H ₄₂ N ₂ P ₂	1.07	660.78	Fisher Scientific	11455420

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L 143		(<i>R,R</i>)-BPPM	72598-03-9	PP	C ₃₄ H ₃₇ NO ₂ P ₂	1.02	553.62	STREM	15-7216
L 145		(<i>R,R,R</i>)-Ph-SKP	1360823-43-3	PP	C ₄₄ H ₃₈ O ₂ P ₂	1.10	660.73	STREM	15-4310
L 147		(<i>R</i>)-CTH-P-Phos	221012-82-4	PP	C ₃₈ H ₃₄ N ₂ O ₄ P ₂	1.10	644.65	STREM	15-5200
L 149		(<i>R</i>)-Tol-GarPhos	1365531-81-2	PP	C ₄₄ H ₄₄ O ₄ P ₂	1.05	698.78	STREM	15-1657
L 153		(<i>S,S,S,S</i>)-BIBOP	1202033-17-7	PP	C ₂₂ H ₂₈ O ₂ P ₂	1.05	386.41	STREM	15-6270
L 157		(<i>R</i>)-Cy-GarPhos	2829282-18-8	PP	C ₄₀ H ₆₀ O ₄ P ₂	1.09	666.86	BLDpharm	BD01593307

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L163		(S,S)-t-BuPh-SKEWPhos	911415-22-0	PP	C ₄₅ H ₆₂ P ₂	1.07	664.94	Sinocompound	SC-4481
L165		(R)-BINAPhane	253311-88-5	PP	C ₅₀ H ₃₆ P ₂	1.05	698.79	Sinocompound	SC-4623
L167		(R,R)-i-Pr-DuPhos	136705-65-2	PP	C ₂₆ H ₄₄ P ₂	1.06	418.59	STREM	15-0410
L171		(S,S,S,S)-Et-BABIBOP	2415751-83-4	PP	C ₂₆ H ₃₆ O ₂ P ₂	1.03	442.52	abcr	AB541715
L172		(R,R,R,R)-WingPhos	1884680-45-8	PP	C ₅₀ H ₄₄ O ₂ P ₂	1.07	738.85	STREM	15-1970
L178		(R)-C ₂ -TunePhos	301847-88-1	PP	C ₃₈ H ₃₀ O ₂ P ₂	1.04	580.60	Ambeed	A976565
L183		(R,R)-CyPP	70774-28-6	PP	C ₃₂ H ₃₄ P ₂	1.07	480.57	Ambeed	A458339

#	Structure	Alias or name	CAS#	Type	Formula	Eq. to Rh	M _w [g mol ⁻¹]	Vendor	Catalog #
L187		(S)-SunPhos	765312-54-7	PP	C ₄₂ H ₃₆ O ₄ P ₂	1.02	666.69	BLDpharm	BD01178671
L189		((2 <i>R</i> ,5 <i>R</i>)-hexane-2,5-diyl)bis(diphenylphosphane)	142494-67-5	PP	C ₃₀ H ₃₂ P ₂	1.10	454.53	BLDpharm	BD01130209
L191		(S,S)-XantPhos	2119686-35-8	PP	C ₄₁ H ₃₆ O ₃ P ₂	1.00	638.68	STREM	15-1239