

## 122 in total

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore CX76	[Pd(PCy <sub>3</sub> ) <sub>2</sub> (OAc) <sub>2</sub> ]	Pd	14	59840-38-9	3000083340
Umicore CX122 - Pd(XPhos)G2	Pd(XPhos)[2-[2'-amino-1,1'-biphenyl]]	Pd	13	1310584-14-5	3000036047
Umicore CX33	[(IPr*)Pd(cinnamyl)Cl]	Pd	9	1380314-24-8	3000036301
Umicore CX121 - Pd(SPhos)G2	Pd(SPhos)[2-(2'-amino-1,1'-biphenyl)]	Pd	15	1375325-64-6	3000081669
Umicore CX98	[Pd(DPEphos)Cl <sub>2</sub> ]	Pd	15	205319-06-8	3000081575
Chiralyst Ru918	[RuCl(p-cymene)(S)-SEGPHOS]Cl	Ru	11	944451-29-0	3000080085
MTO	CH <sub>3</sub> ReO <sub>3</sub>	Re	75	70197-13-6	3000028469
Umicore CX34	[(IPr*OMe)Pd(cinnamyl)Cl]	Pd	9	1454680-44-4	3000027544
Umicore CX71	[PdBr[P( <sup>t</sup> Bu <sub>3</sub> )]] <sub>2</sub>	Pd	27	185812-86-6	3000036049
Umicore CX82	[Pd(P( <sup>t</sup> Bu)Cy <sub>2</sub> ) <sub>2</sub> Cl <sub>2</sub> ]	Pd	16	104889-13-6	3000027105
Pt-Tetrakis	[Pt(PPh <sub>3</sub> ) <sub>4</sub> ]	Pt	16	14221-02-4	3000022280
Chiralyst P468	[Rh(cod) <sub>2</sub> ]CF <sub>3</sub> SO <sub>3</sub>	Rh	22	99326-34-8	3000034548
Chiralyst Ru1321	[Ru(SL-M001-1)(C <sub>7</sub> H <sub>11</sub> )(N-AcCN)]BF <sub>4</sub> x 2 HBF <sub>4</sub>	Ru	8		3000036106
Wilkinson's catalyst	Rh(PPh <sub>3</sub> ) <sub>3</sub> Cl	Rh	11	14694-95-2	3000034541
	[Pd(OOC <sup>t</sup> Bu) <sub>2</sub> ] <sub>3</sub>	Pd	35	106224-36-6	3000020655
Chiralyst P280	[Ru(cod)Cl <sub>2</sub> ] <sub>n</sub>	Ru	36	50982-12-2	3000036087
	Ru(PPh <sub>3</sub> ) <sub>2</sub> (Ind)Cl	Ru	12	1360949-97-8	3000036089
Umicore CX62	[Pd(dippf)(vs)tol]	Pd	4	1708984-17-1	3000036052
Chiralyst Ru929	[RuCl( <i>p</i> -cymene)(R)-BINAP]Cl	Ru	11	145926-28-9	3000036083
	[Ir(cod) <sub>2</sub> ]BF <sub>4</sub>	Ir	39	35138-23-9	3000034535

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore CX97	[Pd(Xantphos)Cl <sub>2</sub> ]	Pd	14	205319-10-4	3000036050
Umicore CX83	[Pd[P( <sup>t</sup> Bu) <sub>2</sub> ] <sup>n</sup> Bu] <sub>2</sub> Cl <sub>2</sub> ]	Pd	18	1444507-24-7	3000036046
	PdO	Pd	87	1314-08-5	3000034594
Adams' catalyst	PtO <sub>2</sub> x n H <sub>2</sub> O	Pt	81	52785-06-5	3000036009
PEPPSI IPr	[(IPr)Pd(3-Cl-py)Cl <sub>2</sub> ]	Pd	16	905459-27-0	3000036041
Umicore CX42	[(SIPr)PdCl <sub>2</sub> ] <sub>2</sub>	Pd	19	627878-09-5	3000034610
Chiralyst P618	[Rh(C <sub>5</sub> Me <sub>5</sub> )Cl <sub>2</sub> ] <sub>2</sub>	Rh	33	12354-85-7	3000034544
Chiralyst P442	[Rh(OAc) <sub>2</sub> ] <sub>2</sub> x n H <sub>2</sub> O	Rh	43	29998-99-0	3000034542
Umicore CX93	[Pd(dppf)Cl <sub>2</sub> ]	Pd	14	72287-26-4	3000034524
Umicore CX96	[Pd(dtbpf)Cl <sub>2</sub> ]	Pd	16	95408-45-0	3000034532
Chiralyst P1271	[Ir(cod) <sub>2</sub> ]BARF	Ir	15	666826-16-0	3000034534
Pd-Tetrakis	[Pd(PPh <sub>3</sub> ) <sub>4</sub> ]	Pd	9	14221-01-3	3000034517
Umicore CX32	(SIPr)Pd(cinnamyl)Cl	Pd	16	884879-24-7	3000034527
Umicore CX31	[(IPr)Pd(cinnamyl)Cl]	Pd	16	884879-23-6	3000034528
Umicore CX81	Pd(P( <sup>t</sup> Bu) <sub>2</sub> Ph) <sub>2</sub> Cl <sub>2</sub>	Pd	17	34409-44-4	3000034531
Umicore CX51	[(IPr)Pd(vs)]	Pd	16	478019-87-3	3000036038
Umicore CX14	[(SImes)Pd(NQ)] <sub>2</sub>	Pd	19	955998-76-2	3000036042
Chiralyst P294	Rh(nbd)(acac)	Rh	34	32354-50-0	3000034612
Nishimura's catalyst	Rh <sub>2</sub> O <sub>3</sub> / PtO <sub>2</sub> x n H <sub>2</sub> O	Rh/Pt	45/20	39373-27-8 / 52785-06-5	3000034604
Umicore CX52	[(IMes)Pd(vs)]	Pd	18	441018-46-8	3000036039
Umicore CX54	[(SImes)Pd(vs)]	Pd	18	1004291-85-3	3000036043
Umicore CX61	Pd(vs)c	Pd	10	252062-59-2	3000036051
Chiralyst Ru636	Ru[(R,R)-TsDPEN]( <i>p</i> -cymene)Cl	Ru	16	192139-92-7	3000036096
Chiralyst Rh756	[Rh[(R,R)-DIPAMP](cod)]BF <sub>4</sub>	Rh	14	56977-92-5	3000036060
	[Ru(C <sub>5</sub> Me <sub>5</sub> )Cl <sub>2</sub> ] <sub>n</sub>	Ru	33	96503-27-4	3000036119
Ru HYDRIDO	Ru(PPh <sub>3</sub> ) <sub>3</sub> (CO)(H)Cl	Ru	11	16971-33-8	3000036113
	Ru(nbd)Cl <sub>2</sub>	Ru	38	48107-17-1	3000034555

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Ru880	[  Ru  7H11 (N-AcCN)]BF4	Ru	12		3000036108
	[Pd(C6H5CN)2Cl2]	Pd	27	14220-64-5	3000036142
Chiralyst Ru914	Ru[(R)-Xyl-MeO-BIPHEP](OAc)2	Ru	11	916197-27-8	3000036110
Chiralyst Rh1110	[Rh(SL-T002-1)(cod)]BF4	Rh	10		3000036064
Chiralyst Ru637	Ru[(S,S)-TsDPEN](p-cymene)Cl	Ru	17	192139-90-5	3000036086
	Ru(PPh3)3Cl2	Ru	10	15529-49-4	3000034553
Chiralyst P406	[Ru(CH3CN)3(C7H11)]BF4	Ru	25	145271-55-2	3000034566
Chiralyst P379	[Ru(C7H11)(C7H14)]BF4	Ru	27	122260-79-1	3000036090
	Ru(C7H11)2	Ru	35	85908-78-7	3000034569
Chiralyst P320	Ru(cod)(methylallyl)2	Ru	32	12289-94-0	3000034557
Umicore CX92	[Pd(dppp)Cl2]	Pd	18	59831-02-6	3000036040
	[Pd(cod)Cl2]	Pd	37	12107-56-1	3000034509
Umicore CX72	[Pd(PCy3)2Cl2]	Pd	15	29934-17-6	3000034513
Umicore CX73	[Pd(PPh3)2Cl2]	Pd	15	13965-03-2	3000034512
	[Pd(allyl)Cl]2	Pd	58	12012-95-2	3000034516
Umicore CX23	(SIPr)Pd(allyl)Cl	Pd	19	478980-01-7	3000034526
Umicore CX22	[(IMes)Pd(allyl)Cl]	Pd	19	478980-04-0	3000034522
Fu catalyst	[Pd(P(tBu)3)2]	Pd	21	53199-31-8	3000034529
Umicore CX84	[Pd(amphos)2Cl2]	Pd	15	887919-35-9	3000034530
Chiralyst Rh1351	[Rh(SL-M004-1)(cod)]BF4	Rh	8	827596-70-3	3000036062
Chiralyst Rh640	Rh[(S,S)-TsDPEN](C5Me5)Cl	Rh	16	219944-99-7	3000036061
Chiralyst Ru762	Ru[(R)-2-Furyl-MeO-BIPHEP](OAc)2	Ru	13	952040-51-6	3000036103
Chiralyst Ru1267	[Ru(SL-W008-1)(C7H11)(N-AcCN)]BF4	Ru	8	1021494-98-3	3000036105

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Ru1255	[Ru(SL-W001-1)(C <sub>7</sub> H <sub>11</sub> )(N-AcCN)]BF <sub>4</sub>	Ru	8	1021494-95-0	3000036099
Chiralyst Ru1251	Ru[(R)-3,5- <i>t</i> -Bu-MeO-BIPHEP](OAc) <sub>2</sub>	Ru	8	194497-14-8	3000036111
Chiralyst Ru843	Ru[(S)-BINAP](OAc) <sub>2</sub>	Ru	12	261948-85-0	3000036102
Chiralyst Ru842	Ru[(R)-BINAP](OAc) <sub>2</sub>	Ru	12	325146-81-4	3000036101
Chiralyst Ru803	Ru[(S)-MeO-BIPHEP](OAc) <sub>2</sub>	Ru	13	134527-17-6	3000036098
Chiralyst Ru802	Ru[(R)-MeO-BIPHEP](OAc) <sub>2</sub>	Ru	13	133519-04-7	3000036097
Chiralyst Ru1011	$\text{C}_{7}\text{H}_{11}\text{I}$	Ru	10	942042-52-6	3000036095
Chiralyst Ru1012	$\text{C}_{7}\text{H}_{11}\text{I}$	Ru	10	942042-53-7	3000036093
Chiralyst Ru928	[RuCl(benzene)(S)-BINAP)]Cl	Ru	12	126251-92-1	3000036092
Chiralyst Ru930	[RuCl( <i>p</i> -cymene)(S)-BINAP)]Cl	Ru	11	130004-33-0	3000036085
Chiralyst Rh639	Rh[(R,R)-TsDPEN](C <sub>5</sub> Me <sub>5</sub> )Cl	Rh	16	223392-99-2	3000036069
Chiralyst Rh1228	[Rh(SL-W001-1)(cod)]BF <sub>4</sub>	Rh	8	673458-88-3	3000036066
Chiralyst Rh840	[Rh(SL-J002-1)(cod)]BF <sub>4</sub>	Rh	12	673458-86-1	3000036065
Chiralyst P1163	[Ir(C <sub>5</sub> Me <sub>5</sub> )I <sub>2</sub> ] <sub>2</sub>	Ir	33	33040-12-9	3000034539
Chiralyst P797	[Ir(C <sub>5</sub> Me <sub>5</sub> )Cl <sub>2</sub> ] <sub>2</sub>	Ir	48	12354-84-6	3000034538
Umicore HS152	[Pt(cod)Cl <sub>2</sub> ]	Pt	52	12080-32-9	3000034502
	Ru(cod)(C <sub>5</sub> Me <sub>5</sub> )Cl	Ru	27	92390-26-6	3000036118
Chiralyst P327	Ru(cod)(OAc) <sub>2</sub>	Ru	31	133519-03-6	3000036082
Chiralyst P889	[Ru(cod)(CF <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> ] <sub>2</sub> x n H <sub>2</sub> O	Ru	23	93582-31-1	3000034556
	[Ru(C <sub>6</sub> Me <sub>6</sub> )Cl <sub>2</sub> ] <sub>2</sub>	Ru	30	67421-02-7	3000036114

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst P500	[Ru(C <sub>6</sub> H <sub>6</sub> )Cl <sub>2</sub> ] <sub>2</sub>	Ru	40	37366-09-9	3000034568
Chiralyst P612	[Ru( <i>p</i> -cymene)Cl <sub>2</sub> ] <sub>2</sub>	Ru	33	52462-29-0	3000034558
Chiralyst P978	[Ru( <i>p</i> -cymene)I <sub>2</sub> ] <sub>2</sub>	Ru	21	90614-07-6	3000034560
	[Ru(acac) <sub>3</sub> ]	Ru	25	14284-93-6	3000034554
Chiralyst P1182	[Rh(cod) <sub>2</sub> ]BARF	Rh	8	404573-66-6	3000034551
Chiralyst P374	[Rh(nbd) <sub>2</sub> ]BF <sub>4</sub>	Rh	28	36620-11-8	3000034547
Chiralyst P461	[Rh(nbd)Cl] <sub>2</sub>	Rh	45	12257-42-0	3000034546
Chiralyst P407	[Rh(cod) <sub>2</sub> ]BF <sub>4</sub>	Rh	25	35138-22-8	3000034543
Chiralyst P493	[Rh(cod)Cl] <sub>2</sub>	Rh	41	12092-47-6	3000034545
Chiralyst P310	Rh(cod)(acac)	Rh	33	12245-39-5	3000034549
	[Rh(acac) <sub>3</sub> ]	Rh	25	14284-92-5	3000036055
PEPPSI SIPr	(SIPr)Pd(3-Cl-py)Cl <sub>2</sub>	Pd	16	927706-57-8	3000036044
Umicore CX41	[(IPr)PdCl <sub>2</sub> ] <sub>2</sub>	Pd	19	444910-17-2	3000034518
Umicore CX21	[(IPr)Pd(allyl)Cl]	Pd	19	478980-03-9	3000034520
Umicore CX12	[(IMes)Pd(NQ)] <sub>2</sub>	Pd	19	467220-49-1	3000034521
Umicore CX11	[(IPr)Pd(NQ)] <sub>2</sub>	Pd	16	649736-75-4	3000034519
Chiralyst Rh1119	[Rh(SL-M001-1)(cod)]BF <sub>4</sub>	Rh	9	673458-82-7	3000034550
	[(IPr)AuCl]	Au	32	852445-83-1	3000036006
		Ru	35	52462-31-4	3000036124
	<sub>2</sub> [Pd(CH <sub>3</sub> CN) <sub>2</sub> Cl <sub>2</sub> ]	Pd	41	14592-56-4	3000036037
Umicore CX74	[Pd(P( <i>o</i> -tol) <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub> ]	Pd	14	40691-33-6	3000034511
	[Pd <sub>2</sub> (dba) <sub>3</sub> ] x dba	Pd	16	51364-51-3	3000034523
Umicore CX95	[Pd(dppf)Cl <sub>2</sub> ] x (CH <sub>3</sub> ) <sub>2</sub> CO	Pd	14	851232-71-8	3000036045
Umicore CX91	[Pd(dppe)Cl <sub>2</sub> ]	Pd	18	19978-61-1	3000034609
Umicore CX94	[Pd(dppf)Cl <sub>2</sub> ] x CH <sub>2</sub> Cl <sub>2</sub>	Pd	13	95464-05-4	3000034525
	[Pd(cinnamyl)Cl] <sub>2</sub>	Pd	41	12131-44-1	3000034515
	[Pd(OAc) <sub>2</sub> ] <sub>3</sub>	Pd	47	3375-31-3	3000034514
	[Pd(acac) <sub>2</sub> ]	Pd	35	14024-61-4	3000034510
	[Ir(coe) <sub>2</sub> Cl] <sub>2</sub>	Ir	43	12246-51-4	3000034537

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore HS157	[Ir(cod)Cl] <sub>2</sub>	Ir	57	12112-67-3	3000034536
	[Ir(cod)(acac)]	Ir	48	12154-84-6	3000034611
Pd(II)-chloride solution 20	H <sub>2</sub> [PdCl <sub>4</sub> ] solution	Pd	20	16970-55-1	3000036294

Your regional Umicore customer expert

Umicore Precious Metals Chemistry USA, LLC

1305 Main Parkway  
Catoosa, OK 74015

Tel. +1 (918) 266 4826  
phillip.chalabi@am.umicore.com