

288 in total

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore CX135 - Pd(tBuXPhos)G3	Pd(^t BuXPhos)G3	Pd	13.4	1447963-75-8	3000087791
Umicore Hoveyda-Grubbs Catalyst M70 (C601)		Ru	17	203714-71-0	3000087581
Umicore CX136 - Pd(Xantphos)G3	Pd(Xantphos)[2-(2'-amino-1,1'-biphenyl)](Ms)	Pd	11	1445085-97-1	3000086860
Umicore CX133 - Pd(RuPhos)G3	Pd(RuPhos)[2-(2'-amino-1,1'-biphenyl)](Ms)	Pd	13	1445085-77-7	3000085984
Umicore CX123 - Pd(RuPhos)G2	Pd(RuPhos)[2-(2'-amino-1,1'-biphenyl)]Cl	Pd	14	1375325-68-0	3000085838
Umicore CX132 - Pd(XPhos)G3	Pd(XPhos)G3	Pd	13	1445085-55-1	3000085837
Umicore CX131 - Pd(SPhos)G3	Pd(SPhos)[2-(2'-amino-1,1'-biphenyl)](Ms)	Pd	14	1445085-82-4	3000085817
Umicore Grubbs Catalyst M1a (C823)	Ru(PCy ₃) ₂ (benzylidene)Cl ₂	Ru	12	172222-30-9	3000083766
Umicore Grubbs Catalyst M2a (C848)	(SI Mes) Ru(PCy ₃)(benzylidene)Cl ₂	Ru	12	246047-72-3	3000083765

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore Hoveyda-Grubbs Catalyst M72 (C627)		Ru	16	301224-40-8	3000083645
Chiralyst P663	[Ir(cod)(OMe)] ₂	Ir	58	12148-71-9	3000083681
Umicore CX200	[Pd(1- ^t Bu-Ind)Cl] ₂	Pd	34	1779569-01-5	3000083281
Umicore CX76	[Pd(PCy ₃) ₂ (OAc) ₂]	Pd	14	59840-38-9	3000083340
Umicore CX201	[Pd(1- ^t Bu-Ind)(P(^t Bu) ₃)Cl]	Pd	21	1779569-15-1	3000083282
Elyst Pt30 0690	Pt/Co alloy on carbon black	Pt	30	7440-06-4	3000026751
Umicore CX122 - Pd(XPhos)G2	Pd(XPhos)G2	Pd	13	1310584-14-5	3000036047
Umicore CX33	[(IPr*)Pd(cinnamyl)Cl]	Pd	9	1380314-24-8	3000036301
Umicore HS161	[Pt(Me) ₃ (CpMe)]	Pt	61	94442-22-5	3000036015
Umicore Hoveyda-Grubbs Catalyst MZ1c (C633)		Ru	16	1352916-84-7	3000083181
Umicore Hoveyda-Grubbs Catalyst MZ2c (C675)		Ru	15	1451807-77-4	3000083086
Umicore Grubbs Catalyst M80b (C853-bis)	(SIMes) ₂ Ru(butenylidene) Cl ₂	Ru	12		3000083085
Umicore Grubbs Catalyst M80a (C875-bis)	(SIMes) ₂ Ru(benzylidene) Cl ₂	Ru	12	508172-19-8	3000083057
	RhI ₃	Rh	20	15492-38-3	3000034540

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Ru1042	[RuCl(<i>p</i> -cymene)(S)-Xyl-BINAP)]Cl	Ru	9	1345887-44-6	3000020710
Umicore Grubbs Catalyst M2b (C827)	(SI Mes) Ru(PCy ₃) (butenylidene)Cl ₂	Ru	12	253688-91-4	3000082849
Umicore Grubbs Catalyst M24 (C885)	(S IMe s)Ru[P Ph ₂ (OMe)](Ind)Cl ₂	Ru	11	2016028-91-2	3000082848
Umicore Hoveyda-Grubbs Catalyst M72 SIPr (C711)		Ru	14	635679-24-2	3000082874
Umicore Grubbs Catalyst M52		Ru	16	1014701-61-1	3000034571
Umicore Hoveyda-Grubbs Catalyst M72 SI(o-Tol) (C571)		Ru	18	927429-61-6	3000082888
Umicore Grubbs Catalyst M33i		Ru	15	1203589-76-7	3000021048
Umicore Grubbs Catalyst M31 SIPr	(SIPr)Ru(py)(Ind) Cl ₂	Ru	12	1304756-39-5	3000036122
Umicore Grubbs Catalyst M1b (C801)	Ru(PCy ₃) ₂ (butenylidene)Cl ₂	Ru	13	194659-03-5	3000036127
Umicore CX121 - Pd(SPhos)G2	Pd(SPhos)G2	Pd	15	1375325-64-6	3000081669

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore CX98	[Pd(DPEphos)Cl ₂]	Pd	15	205319-06-8	3000081575
Pt(KNS) solution	K ₂ [Pt(NO ₂) ₄] sol. in sulphuric acid	Pt	5	13815-39-9	3000036196
	[Pd(HOCH ₂ CH ₂ NH ₂) ₄](NO ₃) ₂ sol.	Pd	9		3000036232
	[Pd(HOCH ₂ CH ₂ NH ₂) ₄](OAc) ₂ sol.	Pd	9	473828-45-4	3000036233
Pt(TAHC)	[Pt(NH ₃) ₄](HCO ₃) ₂	Pt	50.6	123439-82-7	3000036333
Pd/Pt EA solution type A14		Pt/Pd	8/2	68133-90-4	3000036290
Pd(TAA) solution	[Pd(NH ₃) ₄](OAc) ₂ solution	Pd	20	61495-96-3	3000036315
Pd nitrate solution type P	Pd(NO ₃) ₂ solution type P	Pd	19	10102-05-3	3000036311
Rh nitrate solution low acid	Rh(NO ₃) ₃ solution low acid	Rh	8	10139-58-9	3000036259
Cisplatin	[Pt(NH ₃) ₂ Cl ₂]	Pt	68	15663-27-1	3000036274
Elyst Pt50 0690	Pt/Co alloy on carbon black	Pt	50	7440-06-4	3000028644
Chiralyst Ru918	[RuCl(p-cymene)(S)-SEGPHOS)]Cl	Ru	11	944451-29-0	3000080085
	WOCl ₄	W	54	13520-78-0	3000022507
Umicore DeRu40	Ru(EtCp) ₂	Ru	35	32992-96-4	3000036125

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
MTO	CH ₃ ReO ₃	Re	75	70197-13-6	3000028469
	W(CO) ₆	W	52	14040-11-0	3000024166
Elyst Pt20 0390	Pt on carbon black	Pt	20	7440-06-4	3000025128
Umicore Grubbs Catalyst M23 (C947)	(S IMe s)Ru[P Ph ₂ (OPh)](Ind)Cl ₂	Ru	11	1817799-58-8	3000026159
BTBMW	W(^t BuN) ₂ (NMe ₂) ₂	W	44	406462-43-9	3000022073
Tungsten(V) chloride el. grade	WCl ₅	W	50	13470-14-9	3000022557
Umicore CX34	[(IPr*OMe)Pd(cin namyl)Cl]	Pd	9	1454680-44-4	3000027544
Umicore CX71	[PdBr[P(^t Bu ₃)]] ₂	Pd	27	185812-86-6	3000036049
	Mo(CO) ₆	Mo	36	13939-06-5	3000024167
Pt Black	Pt	Pt	98	7440-06-4	3000036169
Rh sulfate solution type PLA	Rh ₂ (SO ₄) ₃ solution	Rh	9	10489-46-0	3000024351
Pt EA solution type CC	(HOCH ₂ CH ₂ NH ₃) ₂ [Pt(OH) ₆] sol.	Pt	9	68133-90-4	3000036199
Pd sulfate solution type S	PdSO ₄ solution type S	Pd	8	13566-03-5	3000036228
Carboplatin	[Pt(NH ₃) ₂ (cbdc)]	Pt	53	41575-94-4	3000036132
Oxaliplatin	[Pt((R,R)-dach)(o x)]	Pt	49	61825-94-3	3000036133

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore CX82	[Pd(P ^t Bu)Cy ₂) ₂ Cl ₂]	Pd	16	104889-13-6	3000027105
Pt-Tetrakis	[Pt(PPh ₃) ₄]	Pt	16	14221-02-4	3000022280
Rh(2-eh) solution type N	[Rh(C ₈ H ₁₅ O ₂) ₃] solution	Rh	2	20845-92-5	3000036074
Pt nitrate solution type H	Pt(NO ₃) ₂ solution type H	Pt	15-20	18496-40-7	3000036305
Pt(TAN) solution low Cl	[Pt(NH ₃) ₄](NO ₃) ₂ solution	Pt	4	20634-12-2	3000036192
Pt nitrate solution type N	Pt(NO ₃) ₂ solution type N	Pt	10	18496-40-7	3000036306
Pd(TAN) solution type C	[Pd(NH ₃) ₄](NO ₃) ₂ solution	Pd	8	13601-08-6	3000036230
Arsenic(III) oxide	As ₂ O ₃	As	76	1327-53-3	3000026297
	[(IMes)AuCl]	Au	36	852445-81-9	3000023802
CPA hydrate	H ₂ [PtCl ₆] x n H ₂ O	Pt	40	26023-84-7	3000036286
Chiralyst P468	[Rh(cod) ₂]CF ₃ SO ₃	Rh	22	99326-34-8	3000034548
Chiralyst Ru1321	[Ru(SL-M001-1)(C ₇ H ₁₁)(N-AcCN)]BF ₄ ·2HBF ₄	Ru	8		3000036106
Wilkinson's catalyst	Rh(PPh ₃) ₃ Cl	Rh	11	14694-95-2	3000034541
PDMAT	Ta(Me ₂ N) ₅	Ta	45	19824-59-0	3000022750
	Rh(OAc) ₃	Rh	40	42204-14-8	3000022256

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
	$[\text{Pd}(\text{OOC}^t\text{Bu})_2]_3$	Pd	35	106224-36-6	3000020655
Elyst Pt50 0380	Pt on carbon black	Pt	50	7440-06-4	3000020703
Umicore Grubbs Catalyst M32h		Ru	15	1416427-09-2	3000034579
Chiralyst P280	$[\text{Ru}(\text{cod})\text{Cl}_2]_n$	Ru	36	50982-12-2	3000036087
Pt nitrate solution type HNA	$\text{Pt}(\text{NO}_3)_2$ solution type HNA	Pt	24	18496-40-7	3000036187
	$\text{Ru}(\text{PPh}_3)_2(\text{Ind})\text{Cl}$	Ru	12	1360949-97-8	3000036089
CCTBA	$\text{Co}_2(\text{CO})_6$ $[\text{HCC}(\text{C}(\text{CH}_3)_3)]$	Co	32	56792-69-9	3000020897
Umicore CX62	$[\text{Pd}(\text{dippf})(\text{vs})\text{tol}]$	Pd	4	1708984-17-1	3000036052
Elyst Pt50 0550	Pt on carbon black	Pt	50	7440-06-4	3000036158
TMGa	GaMe_3	Ga	61	1445-79-0	3000036146
Umicore Grubbs Catalyst M91		Ru	15	1415725-62-0	3000036076
	$[\text{Ru}(\text{Cp})(\text{CO})_2]_2$	Ru	46	12132-87-5	3000036126
Umicore HS432	$[(\text{ICy})\text{Pt}(\text{vs})]$	Pt	32	400758-55-6	3000034504
Umicore HS425	$[(\text{IPr})\text{Pt}(\text{vs})]$	Pt	25	849830-54-2	3000034503
Chiralyst Ru867		Ru	12	1016168-44-7	3000034572
	${}^7\text{H}_{11}(\text{N-AcCN})\text{BF}_4$				

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Ru1013	[Ru(SL-T001-1)(C ₇ H ₁₁)(N-AcCN)]BF ₄	Ru	10	942042-51-5	3000036104
Chiralyst Ru929	[RuCl(<i>p</i> -cymene)(R)-BINAP]Cl	Ru	11	145926-28-9	3000036083
Chiralyst Rh740	[Rh[(R,R)-DIPAMP](nbd)]BF ₄	Rh	14	894423-88-2	3000036067
Chiralyst Rh757	[Rh[(S,S)-DIPAMP](cod)]BF ₄	Rh	14	71423-54-6	3000036059
Chiralyst Rh986	[Rh(SL-T001-1)(cod)]BF ₄	Rh	10	673458-84-9	3000036063
Umicore Grubbs Catalyst M35		Ru	12	934538-12-2	3000034564
Umicore Grubbs Catalyst M81		Ru	11	1228169-92-3	3000036143
	[Au(en) ₂]Cl ₃	Au	47	15278-22-5	3000034500
	[Ir(cod) ₂]BF ₄	Ir	39	35138-23-9	3000034535
Umicore CX97	[Pd(Xantphos)Cl ₂]	Pd	14	205319-10-4	3000036050
Umicore CX83	[Pd[P(^t Bu) ₂] ⁿ Bu] ₂ Cl ₂]	Pd	18	1444507-24-7	3000036046
Umicore HS221	Pt(vs)hc	Pt	21	68478-92-2	3000036023
CAA hydrate	H[AuCl ₄] x n H ₂ O	Au	50	27988-77-8	3000036163
Umicore Grubbs Catalyst M92		Ru	14	1415725-73-3	3000036077
	Rh ₂ O ₃	Rh	81	12036-35-0	3000036255

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
	RhCl ₃ x n H ₂ O	Rh	38	20765-98-4	3000036253
Rh Black	Rh	Rh	95	7440-16-6	3000036249
	PdO x n H ₂ O	Pd	84	64109-12-2	3000036217
Pd(TAHC)	[Pd(NH ₃) ₄](HCO ₃) ₂	Pd	36	134620-00-1	3000036219
Pd(TAC) hydrate	[Pd(NH ₃) ₄]Cl ₂ x n H ₂ O	Pd	43	13815-17-3	3000036293
Pd sulfate solution type P	PdSO ₄ solution type P	Pd	4	13566-03-5	3000036227
Pd(TAS) solution	[Pd(NH ₃) ₄]SO ₄ solution	Pd	5	13601-06-4	3000036226
	PdCl ₂	Pd	60	7647-10-1	3000036292
Adams' catalyst	PtO ₂ x n H ₂ O	Pt	81	52785-06-5	3000036009
Pt(TAC) hydrate	[Pt(NH ₃) ₄]Cl ₂ x n H ₂ O	Pt	56	13933-33-0	3000034585
CPA solution 25	H ₂ [PtCl ₆] solution	Pt	25	16941-12-1	3000036287
CPA hydrate	H ₂ [PtCl ₆] x n H ₂ O	Pt	42	26023-84-7	3000036175
Umicore Hoveyda-Grubbs Catalyst M71		Ru	14	1025728-56-6	3000034576
Umicore Grubbs Catalyst M93		Ru	15	1415725-68-6	3000036078
Umicore Grubbs Catalyst M31	[(SImes)Ru(py)(Ind)Cl ₂]	Ru	14	1031262-76-6	3000034565
Umicore Grubbs Catalyst M20 SIPr	(SI Pr)Ru(PPh ₃)(Ind)Cl ₂	Ru	10	1307233-23-3	3000036123

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore Grubbs Catalyst M1	$\text{Ru}(\text{PCy}_3)_2(\text{Ind})\text{Cl}_2$	Ru	11	250220-36-1	3000034559
Pd(PEPPSI)IPr	$[(\text{IPr})\text{Pd}(3\text{-Cl-py})\text{Cl}_2]$	Pd	16	905459-27-0	3000036041
Umicore CX42	$[(\text{SIPr})\text{PdCl}_2]_2$	Pd	19	627878-09-5	3000034610
	$[\text{Rh}(\text{C}_7\text{H}_{15}\text{COO})_2]_2$	Rh	26	73482-96-9	3000036058
Chiralyst P618	$[\text{Rh}(\text{C}_5\text{Me}_5)\text{Cl}_2]_2$	Rh	33	12354-85-7	3000034544
Chiralyst P442	$[\text{Rh}(\text{OAc})_2]_2 \times n \text{ H}_2\text{O}$	Rh	43	29998-99-0	3000034542
	Rh(OAc) ₃ solution	Rh	5	42204-14-8	3000036070
Umicore CX93	$[\text{Pd}(\text{dppf})\text{Cl}_2]$	Pd	14	72287-26-4	3000034524
Umicore CX96	$[\text{Pd}(\text{dtbpf})\text{Cl}_2]$	Pd	16	95408-45-0	3000034532
Chiralyst P1271	$[\text{Ir}(\text{cod})_2]\text{BArF}$	Ir	15	666826-16-0	3000034534
Umicore HS302	Pt(cs)cs	Pt	2	68585-32-0	3000036016
	$\text{RuCl}_3 \times n \text{ H}_2\text{O}$	Ru	37	14898-67-0	3000034607
Pd-Tetrakis	$[\text{Pd}(\text{PPh}_3)_4]$	Pd	9	14221-01-3	3000034517
	$[(\text{PPh}_3)\text{AuCl}]$	Au	40	14243-64-2	3000036007
Umicore CX32	$(\text{SIPr})\text{Pd}(\text{cinnamyl})\text{Cl}$	Pd	16	884879-24-7	3000034527
Umicore CX31	$[(\text{IPr})\text{Pd}(\text{cinnamyl})\text{Cl}]$	Pd	16	884879-23-6	3000034528
Umicore CX81	$\text{Pd}(\text{P}^t\text{Bu})_2\text{Ph})_2\text{Cl}_2$	Pd	17	34409-44-4	3000034531
CPCOCO	$\text{Co}(\text{CO})_2\text{Cp}$	Co	33	12078-25-0	3000036154

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore Grubbs Catalyst M32h SIPr		Ru	13	1416427-12-7	3000034577
Umicore CX51	[(IPr)Pd(vs)]	Pd	16	478019-87-3	3000036038
	[Ir(acac) ₃]	Ir	39	15635-87-7	3000034533
Chiralyst Ru1254	Ru(SL-W001-1)(C ₇ H ₁₁)I	Ru	8	1021494-93-8	3000036107
Chiralyst P294	Rh(nbd)(acac)	Rh	34	32354-50-0	3000034612
Umicore HS206	Pt(vs)cs	Pt	3	68478-92-2	3000036028
Nishimura's catalyst	Rh ₂ O ₃ / PtO ₂ x n H ₂ O	Rh/Pt	45/20	39373-27-8 / 52785-06-5	3000034604
Pt(TAA) solution	[Pt(NH ₃) ₄](OAc) ₂ solution	Pt	15	127733-97-5	3000036182
Umicore HS156	[Pt(cyclohexene)Cl ₂] ₂	Pt	56	60134-75-0	3000034507
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
Umicore Hoveyda-Grubbs Catalyst M71 SIPr		Ru	12	1212008-99-5	3000036112
Chiralyst Ru636	Ru[(R,R)-TsDPE N](p-cymene)Cl	Ru	16	192139-92-7	3000036096
Chiralyst Rh756	[Rh[(R,R)-DIPAM P](cod)]BF ₄	Rh	14	56977-92-5	3000036060
	[Ru(C ₅ Me ₅)Cl ₂] _n	Ru	33	96503-27-4	3000036119

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Ru HYDRIDO	Ru(PPh ₃) ₃ (CO)(H)Cl	Ru	11	16971-33-8	3000036113
	Ru(nbd)Cl ₂	Ru	38	48107-17-1	3000034555
Chiralyst Ru880		Ru	12		3000036108
	₇ H ₁₁)(N-AcCN)]BF ₄				
Umicore Grubbs Catalyst M11	Ru(ⁱ Bu-phobane) ₂ (Ind)Cl ₂	Ru	13	894423-99-5	3000034563
	[Pd(C ₆ H ₅ CN) ₂ Cl ₂]	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)]BF ₄	Rh	10		3000036064
Chiralyst Ru637	Ru[(S,S)-TsDPE N](<i>p</i> -cymene)Cl	Ru	16	192139-90-5	3000036086
	Ru(PPh ₃) ₃ Cl ₂	Ru	10	15529-49-4	3000034553
ROPAC	Rh(PPh ₃)(CO)(acac)	Rh	20	25470-96-6	3000036057
Umicore DeRu33	Ru(C ₆ H ₈)(C ₆ H ₆)	Ru	39	12215-07-5	3000034575
Chiralyst P406	[Ru(CH ₃ CN) ₃ (C ₇ H ₁₁)]BF ₄	Ru	25	145271-55-2	3000034566
Chiralyst P379	[Ru(C ₇ H ₁₁)(C ₇ H ₄)]BF ₄	Ru	27	122260-79-1	3000036090
Umicore DeRu28	Ru(C ₇ H ₁₁) ₂	Ru	35	85908-78-7	3000034569
Chiralyst P320	Ru(cod)(methylallyl) ₂	Ru	32	12289-94-0	3000034557

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore DeRu21	[Ru(MeCOCH(C H ₂)Me) ₂]	Ru	34	857678-47-8	3000024334
Umicore CX92	[Pd(dppp)Cl ₂]	Pd	18	59831-02-6	3000036040
	[Pd(cod)Cl ₂]	Pd	37	12107-56-1	3000034509
Umicore CX72	[Pd(PCy ₃) ₂ Cl ₂]	Pd	14	29934-17-6	3000034513
Umicore CX73	[Pd(PPh ₃) ₂ Cl ₂]	Pd	15	13965-03-2	3000034512
CARAC	Rh(CO) ₂ (acac)	Rh	40	14874-82-9	3000034605
Rh HYDRIDO	Rh(PPh ₃) ₃ (CO)H	Rh	11	17185-29-4	3000036056
	[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(^t Bu) ₃) ₂]	Pd	21	53199-31-8	3000034529
Umicore CX84	[Pd(amphos) ₂ Cl ₂]	Pd	15	887919-35-9	3000034530
Elyst Ir75 0480	IrO ₂ on oxidic support	Ir	75	12030-49-8	3000020266
Chiralyst Rh1351	[Rh(SL-	Rh	8	827596-70-3	3000036062
	4				
Chiralyst Rh640	Rh[(S,S)-TsDPE N](C ₅ Me ₅)Cl	Rh	16	219944-99-7	3000036061
Chiralyst Ru762	Ru[(R)-2-Furyl-M eO-BIPHEP](OAc) ₂	Ru	13	952040-51-6	3000036103

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Ru1267	[Ru(SL-W008-1)(C ₇ H ₁₁)(N-AcCN)]BF ₄	Ru	8	1021494-98-3	3000036105
Chiralyst Ru1255	[Ru(SL-W001-1)(C ₇ H ₁₁)(N-AcCN)]BF ₄	Ru	8	1021494-95-0	3000036099
Chiralyst Ru1251	Ru[(R)-3,5- <i>t</i> -Bu-MeO-BIPHEP](OAc) ₂	Ru	8	194497-14-8	3000036111
Chiralyst Ru843	Ru[(S)-BINAP](OAc) ₂	Ru	12	261948-85-0	3000036102
Chiralyst Ru842	Ru[(R)-BINAP](OAc) ₂	Ru	12	325146-81-4	3000036101
Chiralyst Ru803	Ru[(S)-MeO-BIPHEP](OAc) ₂	Ru	13	134527-17-6	3000036098
Chiralyst Ru802	Ru[(R)-MeO-BIPHEP](OAc) ₂	Ru	13	133519-04-7	3000036097
Chiralyst Ru1011		Ru	10	942042-52-6	3000036095
	₇ H ₁₁ I				
Chiralyst Ru1012		Ru	10	942042-53-7	3000036093
	₇ H ₁₁ I				
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

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Rh639	Rh[(R,R)-TsDPE N](C ₅ Me ₅)Cl	Rh	16	223392-99-2	3000036069
Chiralyst Rh1228	[Rh(SL- 4	Rh	8	673458-88-3	3000036066
Chiralyst Rh840	[Rh(SL-J002-1)(cod)]BF ₄	Rh	12	673458-86-1	3000036065
Chiralyst P1163	[Ir(C ₅ Me ₅)I ₂] ₂	Ir	33	33040-12-9	3000034539
Chiralyst P797	[Ir(C ₅ Me ₅)Cl ₂] ₂	Ir	48	12354-84-6	3000034538
Umicore HS125	[Pt(PPh ₃) ₂ Cl ₂]	Pt	25	15604-36-1	3000034506
Umicore HS152	[Pt(cod)Cl ₂]	Pt	52	12080-32-9	3000034502
CIA solution	H ₂ [IrCl ₆] solution	Ir	23	16941-92-7	3000036246
	Ru(cod)(C ₅ Me ₅)Cl	Ru	27	92390-26-6	3000036118
Umicore DeRu37	Ru ₃ (CO) ₁₂	Ru	47	15243-33-1	3000036080
Chiralyst P327	Ru(cod)(OAc) ₂	Ru	31	133519-03-6	3000036082
Chiralyst P889	[Ru(cod)(CF ₃ CO ₂) ₂] ₂ x n H ₂ O	Ru	23	93582-31-1	3000034556
	[Ru(C ₆ Me ₆)Cl ₂] ₂	Ru	30	67421-02-7	3000036114
Chiralyst P500	[Ru(C ₆ H ₆)Cl ₂] ₂	Ru	40	37366-09-9	3000034568
Chiralyst P612	[Ru(<i>p</i> -cymene)Cl ₂] ₂	Ru	33	52462-29-0	3000034558
Chiralyst P978	[Ru(<i>p</i> -cymene)I ₂] ₂	Ru	21	90614-07-6	3000034560
	[Ru(acac) ₃]	Ru	25	14284-93-6	3000034554

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
	Ru(OAc) ₃ solution	Ru	5	55466-76-7	3000036129
Chiralyst P1182	[Rh(cod) ₂]BARf	Rh	8	404573-66-6	3000034551
Chiralyst P374	[Rh(nbd) ₂]BF ₄	Rh	28	36620-11-8	3000034547
Chiralyst P461	[Rh(nbd)Cl] ₂	Rh	45	12257-42-0	3000034546
Chiralyst P407	[Rh(cod) ₂]BF ₄	Rh	25	35138-22-8	3000034543
Chiralyst P493	[Rh(cod)Cl] ₂	Rh	41	12092-47-6	3000034545
Chiralyst P310	Rh(cod)(acac)	Rh	33	12245-39-5	3000034549
	[Rh(acac) ₃]	Rh	25	14284-92-5	3000036055
Umicore Grubbs Catalyst M51		Ru	15	1031262-71-1	3000034567
Umicore Grubbs Catalyst M22	[(SI Mes) Ru(P(O ⁱ Pr) ₃) (Ind)Cl ₂]	Ru	12	1255536-61-8	3000036115
Umicore Grubbs Catalyst M20	[(SI Mes) Ru(PPh ₃)(Ind)Cl ₂]	Ru	11	340810-50-6	3000036116
Umicore Grubbs Catalyst M2	(SI Mes) Ru(PCy ₃)(Ind)Cl ₂	Ru	11	536724-67-1	3000034561
Pd(PEPPSI)(SIPr)	[(SIPr)Pd(3-Cl-py)Cl ₂]	Pd	16	927706-57-8	3000036044
Umicore CX41	[(IPr)PdCl ₂] ₂	Pd	19	444910-17-2	3000034518
Umicore CX21	[(IPr)Pd(allyl)Cl]	Pd	19	478980-03-9	3000034520

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Chiralyst Rh1119	[Rh(SL-	Rh	9	673458-82-7	3000034550
	4				
Umicore Hoveyda-Grubbs Catalyst M73 SIPr		Ru	12	1212009-05-6	3000034573
Umicore Hoveyda-Grubbs Catalyst M73		Ru	13	1025728-57-7	3000034574
	[(IPr)AgCl]	Ag	20	873297-19-9	3000036004
	[(IPr)AuCl]	Au	32	852445-83-1	3000036006
	[(tht)AuCl]	Au	61	39929-21-0	3000036005
	[Ru(mesitylene)C I ₂]	Ru	35	52462-31-4	3000036124
Umicore HS426	(SIPr)Pt(vs)	Pt	25	873311-51-4	3000034501
Umicore HS203	Pt(vs)ipa	Pt	3	68478-92-2	3000036019
Umicore HS202	Pt(vs)x	Pt	2	68478-92-2	3000036018
Umicore HS220	Pt(vs)c type A	Pt	20	68478-92-2	3000036302
Umicore HS149	[Pt(acac) ₂]	Pt	49	15170-57-7	3000034505
CAA solution 38	H[AuCl ₄] solution	Au	38	16903-35-8	3000036167
	Ru(NO)(NO ₃) ₃ solution	Ru	10-11	34513-98-9	3000036270
	Ru(NO)(NO ₃) ₃	Ru	31	34513-98-9	3000034608
	RuO ₂ x n H ₂ O	Ru	60	32740-79-7	3000036267
	RuO ₂	Ru	76	12036-10-1	3000036266

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Ru Black	Ru	Ru	96	7440-18-8	3000036262
Rh nitrate solution	Rh(NO ₃) ₃ solution	Rh	9	10139-58-9	3000036316
	Rh(NO ₃) ₃ x n H ₂ O	Rh	35	13465-43-5	3000034603
	RhCl ₃	Rh	49	10049-07-7	3000036252
	RhCl ₃ solution	Rh	20	13569-65-8	3000036258
Pd(TAS)	[Pd(NH ₃) ₄]SO ₄	Pd	39	13601-06-4	3000036218
Pd(TAC) solution	[Pd(NH ₃) ₄]Cl ₂ solution	Pd	9	13815-17-3	3000019759
Pd(TAN) solution type NH	[Pd(NH ₃) ₄](NO ₃) ₂ solution	Pd	3	13601-08-6	3000036314
Pd(DAN) ammonia solution	[Pd(NH ₃) ₂ (NO ₂) ₂] sol. in ammonia	Pd	9		3000036225
	[Pd(CH ₃ CN) ₂ Cl ₂]	Pd	41	14592-56-4	3000036037
Umicore CX74	[Pd(P(<i>o</i> -tol) ₃) ₂ Cl ₂]	Pd	14	40691-33-6	3000034511
	[Pd ₂ (dba) ₃] x dba	Pd	16	51364-51-3	3000034523
Umicore CX95	[Pd(dppf)Cl ₂] x (CH ₃) ₂ CO	Pd	14	851232-71-8	3000036045
Umicore CX91	[Pd(dppe)Cl ₂]	Pd	18	19978-61-1	3000034609
Umicore CX94	[Pd(dppf)Cl ₂] x CH ₂ Cl ₂	Pd	13	95464-05-4	3000034525
	[Pd(cinnamyl)Cl] ₂	Pd	41	12131-44-1	3000034515
	[Pd(OAc) ₂] ₃	Pd	47	3375-31-3	3000034514
	[Pd(acac) ₂]	Pd	35	14024-61-4	3000034510
	[Ir(coe) ₂ Cl] ₂	Ir	43	12246-51-4	3000034537

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
Umicore HS157	[Ir(cod)Cl] ₂	Ir	57	12112-67-3	3000034536
	[Ir(cod)(acac)]	Ir	48	12154-84-6	3000034611
	Na ₂ [PtCl ₆] x n H ₂ O	Pt	34	19583-77-8	3000034584
Pt EA solution low Cl	(HOCH ₂ CH ₂ NH ₃) ₂ [Pt(OH) ₆] sol.	Pt	9	68133-90-4	3000036198
Pt EA solution	(HOCH ₂ CH ₂ NH ₃) ₂ [Pt(OH) ₆] sol.	Pt	9	68133-90-4	3000036308
Pt(TAA) solution low Cl	[Pt(NH ₃) ₄](OAc) ₂ solution	Pt	15	127733-97-5	3000036303
Pt(TAN) solution	[Pt(NH ₃) ₄](NO ₃) ₂ solution	Pt	4	20634-12-2	3000036193
Pt(TAC) solution	[Pt(NH ₃) ₄]Cl ₂ solution	Pt	9	13933-33-0	3000036189
HPA	H ₂ [Pt(OH) ₆]	Pt	64	51850-20-5	3000036176
Pt Black 32	Pt	Pt	98	7440-06-4	3000036171
Pd(DAC)	[Pd(NH ₃) ₂ Cl ₂]	Pd	50	14323-43-4	3000036291
	PdSO ₄ x n H ₂ O	Pd	45	13444-98-9	3000034595
Pd nitrate solution type ACG	Pd(NO ₃) ₂ solution type ACG	Pd	20	10102-05-3	3000036313
Pd nitrate solution type H	Pd(NO ₃) ₂ solution type H	Pd	20	10102-05-3	3000036312
	Pd(NO ₃) ₂ x n H ₂ O	Pd	40	32916-07-7	3000036216

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

Trade name	Empirical formula	Metal	Theoretical metal content	CAS Number	Product number
	Na ₂ [PdCl ₄] solution	Pd	15	13820-53-6	3000036220
Pd(II)-chloride solution 20	H ₂ [PdCl ₄] solution	Pd	20	16970-55-1	3000036294
Pd Black	Pd	Pd	98	7440-05-3	3000036211
	K ₂ [IrCl ₆]	Ir	39	16920-56-2	3000034601
	IrCl ₄ /IrCl ₃ x n H ₂ O	Ir	50	207399-11-9	3000034602
Ir Black	Ir	Ir	99	7439-88-5	3000020267

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