

PRODUCT CATALOGUE

Advanced chemistry, organised for faster decisions

A focused commercial catalogue covering organic peroxides, precious-metal complexes, chiral technologies, ligands, specialty intermediates and electronics materials.

ORGANIC PEROXIDES	17 grades	Polymer modification Crosslinking Silicone Curing
PRECIOUS-METAL COMPLEXES	28 products	Ru Rh Pd Pt
CHIRAL METAL COMPLEXES	13 products	Ru Rh Mn Co Asymmetric synthesis Resolution
LIGANDS & INTERMEDIATES	10 products	Catalyst building blocks Fine chemistry
SEMICONDUCTOR & ELECTRONICS	6 products	Ruthenium precursors ULSI-grade chemicals

Organic Peroxides (Polymer modification | Crosslinking | Silicone Curing)

CAS No.	Product name	Formula	MW (g/mol)	Primary application
78-63-7	Permanox 101	C16H34O4	290.44	Modify PP melt flow; crosslink rubber and elastomers
78-63-7	Permanox 101 P20-MB	C16H34O4	290.44	Uniform peroxide dosing for PP melt-flow control
78-63-7	Permanox 101-10P-MB	C16H34O4	290.44	Controlled PP visbreaking with masterbatch dosing
78-63-7	Permanox 101-7.5P-MB	C16H34O4	290.44	Low-dose PP melt-flow adjustment and reprocessing
78-63-7	Permanox 101 XL45	C16H34O4	290.44	Crosslink NR, EPDM, FKM and silicone elastomers
78-63-7	Permanox 101 XL45-PS	C16H34O4	290.44	Silicone rubber crosslinking with uniform paste dispersion
24748-23-0	Permanox 301-IP	C12H24O6	264.32	Controlled rheology in virgin and recycled polyolefins
24748-23-0	Permanox 301-20P-MB	C12H24O6	264.32	Uniform PP visbreaking and melt-flow control
24748-23-0	Permanox 301-PD	C12H24O6	264.32	PP rheology modification at 200-250 C using powder dosing
24748-23-0	Permanox 301-PS	C12H24O6	264.32	Paste format for controlled PP rheology modification
110-05-4	Permanox-P	C8H18O2	146.20	LDPE polymerisation initiator for tubular and autoclave processes
110-05-4	Permanox-P-MB	C8H18O2	146.20	PE/EPDM crosslinking and PP flow modification
110-05-4	Permanox-P-PD	C8H18O2	146.20	PP MFI modification and PE/elastomer crosslinking
110-05-4	Permanox-P-PS	C8H18O2	146.20	PP visbreaking and PE/elastomer crosslinking
80-43-3	Permanox BC-PD40	C18H22O2	270.37	Powder grade for rubber and polyolefin crosslinking
80-43-3	Permanox BC-PS40	C18H22O2	270.37	Paste grade for silicone rubber crosslinking
80-43-3	Permanox BC-EP40-MB	C18H22O2	270.37	Bead masterbatch for rubber and polyolefin crosslinking

Precious-Metal Complexes (Ru | Rh | Pd | Pt)

Metal	CAS No.	Product name	Formula	MW (g/mol)	Primary application
Ru	52462-29-0	Dichloro(p-cymene)ruthenium(II) dimer	C ₂₀ H ₂₈ Cl ₄ Ru ₂	612.39	Hydrogenation, transfer hydrogenation and catalyst synthesis
Ru	90614-07-6	Diiodo(p-cymene)ruthenium(II) dimer	C ₂₀ H ₂₈ I ₄ Ru ₂	978.19	Ruthenium catalyst precursor for selective organic synthesis
Ru	50982-12-2	Dichloro(1,5-cyclooctadiene)ruthenium(II), polymer	[C ₈ H ₁₂ Cl ₂ Ru] _n	280.16	Precursor for homogeneous ruthenium catalysts
Ru	14284-93-6	Ruthenium(III) acetylacetonate	C ₁₅ H ₂₁ O ₆ Ru	398.39	Catalyst and thin-film / advanced-material precursor
Ru	82091-73-4	Dichloro(pentamethylcyclopentadienyl)ruthenium(III) dimer	C ₂₀ H ₃₀ Cl ₄ Ru ₂	614.40	C-H activation and organometallic catalyst synthesis
Ru	92390-26-6	Chloro(pentamethylcyclopentadienyl)(cyclooctadiene)ruthenium(II)	C ₁₈ H ₂₇ ClRu	379.93	Precursor for selective homogeneous catalysis
Ru	98014-14-3	cis-Dichlorobis(2,2'-bipyridine)ruthenium(II) monohydrate	C ₂₀ H ₁₈ Cl ₂ N ₄ ORu	484.34	Photoredox, electrochemical and coordination chemistry
Ru	15243-33-1	Triruthenium dodecacarbonyl	Ru ₃ (CO) ₁₂	639.33	Carbonylation, nanomaterials and ruthenium precursor chemistry
Ru	25360-32-1	Carbonyldihydridotris(triphenylphosphine)ruthenium(II)	C ₅₅ H ₄₇ OP ₃ Ru	917.95	Homogeneous hydrogenation and transfer hydrogenation
Ru	14564-35-3	Bis(triphenylphosphine)ruthenium(II) dicarbonyl chloride	C ₃₈ H ₃₀ Cl ₂ O ₂ P ₂ Ru	752.57	Hydrogenation, isomerisation and carbonyl chemistry
Ru	104439-77-2	Shvo's catalyst	C ₆₂ H ₄₂ O ₆ Ru ₂	1085.15	Transfer hydrogenation and alcohol oxidation
Rh	12092-47-6	Chloro(1,5-cyclooctadiene)rhodium(I) dimer	C ₁₆ H ₂₄ Cl ₂ Rh ₂	493.08	Hydrogenation, hydroformylation and catalyst synthesis
Rh	35138-22-8	Bis(1,5-cyclooctadiene)rhodium(I) tetrafluoroborate	C ₁₆ H ₂₄ BF ₄ Rh	406.07	Asymmetric hydrogenation and chiral catalyst preparation
Rh	14284-92-5	Rhodium(III) acetylacetonate	C ₁₅ H ₂₁ O ₆ Rh	400.23	Catalyst precursor and advanced-material chemistry
Rh	18284-36-1	Hydridotetrakis(triphenylphosphine)rhodium(I)	C ₇₂ H ₆₁ P ₄ Rh	1153.08	Selective hydrogenation and hydroformylation
Rh	19584-30-6	Tettrarhodium dodecacarbonyl	Rh ₄ (CO) ₁₂	747.74	Carbonylation and hydroformylation catalyst precursor
Pd	14221-01-3	Tetrakis(triphenylphosphine)palladium(0)	C ₇₂ H ₆₀ P ₄ Pd	1155.56	Suzuki, Heck, Stille and related cross-coupling
Pd	7647-10-1	Palladium chloride	PdCl ₂	177.33	Catalyst manufacture, coupling and plating chemistry
Pd	3375-31-3	Palladium(II) acetate	C ₄ H ₆ O ₄ Pd	224.51	Cross-coupling, C-H activation and oxidation catalysis
Pd	64916-48-9	Palladium(II) hexafluoroacetylacetonate	C ₁₀ H ₂ F ₁₂ O ₄ Pd	520.52	CVD / materials precursor and catalyst synthesis
Pd	51364-51-3	Tris(dibenzylideneacetone)dipalladium(0)	C ₅₁ H ₄₂ O ₃ Pd ₂	915.72	Cross-coupling and homogeneous catalyst preparation
Pd	72287-26-4	[1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II)	C ₃₄ H ₂₈ Cl ₂ FeP ₂ Pd	731.70	Suzuki, Buchwald-Hartwig and related coupling reactions
Pt	15170-57-7	Platinum(II) acetylacetonate	C ₁₀ H ₁₄ O ₄ Pt	393.30	Hydrosilylation, catalyst synthesis and materials processing
Pt	94442-22-5	Trimethyl(methylcyclopentadienyl)platinum(IV)	C ₉ H ₁₆ Pt	319.30	ALD / CVD platinum thin-film precursor
Pt	12080-32-9	Dichloro(1,5-cyclooctadiene)platinum(II)	C ₈ H ₁₂ Cl ₂ Pt	374.13	Platinum catalyst and organometallic precursor
Pt	68478-92-2	Karstedt's catalyst	C ₈ H ₁₈ OPtSi ₂	381.48	Addition-cure silicone and hydrosilylation
Pt	68585-32-0	Ashby's catalyst	C ₁₂ H ₂₄ O ₄ PtSi ₄	539.74	Silicone hydrosilylation and elastomer curing
Pt	16941-12-1	Speier's catalyst	H ₂ PtCl ₆	409.81	Silicone curing and hydrosilylation

Chiral Metal Complexes (Ru | Rh | Mn | Co | Asymmetric synthesis | Resolution)

Metal	CAS No.	Product name	Formula	MW (g/mol)	Primary application
Ru	261948-85-0	Ru[(S)-BINAP](OCOCH₃)₂	C ₄₈ H ₃₈ O ₄ P ₂ Ru	841.83	Asymmetric hydrogenation to access chiral intermediates
Ru	325146-81-4	Ru[(R)-BINAP](OCOCH₃)₂	C ₄₈ H ₃₈ O ₄ P ₂ Ru	841.83	Asymmetric hydrogenation to access chiral intermediates
Ru	212143-23-2	(R)-BINAP RuCl₂ (R,R)-DPEN	C ₅₈ H ₄₈ Cl ₂ N ₂ P ₂ Ru	1006.94	Enantioselective ketone hydrogenation
Ru	329736-05-2	(S)-BINAP RuCl₂ (S,S)-DPEN	C ₅₈ H ₄₈ Cl ₂ N ₂ P ₂ Ru	1006.94	Enantioselective ketone hydrogenation
Ru	192139-92-7	RuCl[(R,R)-TsDPEN](p-cymene)	C ₃₁ H ₃₅ ClN ₂ O ₂ RuS	636.21	Asymmetric transfer hydrogenation
Ru	192139-90-5	RuCl[(S,S)-TsDPEN](p-cymene)	C ₃₁ H ₃₅ ClN ₂ O ₂ RuS	636.21	Asymmetric transfer hydrogenation
Ru	130004-33-0	(S)-RuCl[(p-cymene)(BINAP)]Cl	C ₅₄ H ₄₆ Cl ₂ P ₂ Ru	928.86	Asymmetric hydrogenation and chiral synthesis
Rh	208118-82-5	[Rh(COD)(S)-BINAP]BF₄	C ₅₂ H ₄₄ BF ₄ P ₂ Rh	918.55	Asymmetric hydrogenation
Rh	120521-81-5	[Rh(COD)(R)-BINAP]BF₄	C ₅₂ H ₄₄ BF ₄ P ₂ Rh	918.55	Asymmetric hydrogenation
Mn	138124-32-0	(R,R)-(-)-Jacobsen's catalyst (Mn)	C ₃₆ H ₅₂ ClMnN ₂ O ₂	635.21	Enantioselective alkene epoxidation
Mn	135620-04-1	(S,S)-(+)-Jacobsen's catalyst (Mn)	C ₃₆ H ₅₂ ClMnN ₂ O ₂	635.21	Enantioselective alkene epoxidation
Co	176763-62-5	(R,R)-(-)-Cobalt salen (Jacobsen's type)	C ₃₆ H ₅₂ CoN ₂ O ₂	603.75	Hydrolytic kinetic resolution and asymmetric catalysis
Co	188264-84-8	(S,S)-(+)-Cobalt salen (Jacobsen's type)	C ₃₆ H ₅₂ CoN ₂ O ₂	603.75	Hydrolytic kinetic resolution and asymmetric catalysis

Ligands & Intermediates (Catalyst building blocks | Fine chemistry)

CAS No.	Product name	Formula	MW (g/mol)	Primary application
602-09-5	(+/-)-1,1'-Bi-2-naphthol	C ₂₀ H ₁₄ O ₂	286.32	Precursor for BINAP, phosphoric acids and chiral ligands
18531-99-2	(S)-(-)-1,1'-Bi(2-naphthol)	C ₂₀ H ₁₄ O ₂	286.32	Chiral ligand and organocatalyst intermediate
18531-94-7	(R)-(+)-1,1'-Bi(2-naphthol)	C ₂₀ H ₁₄ O ₂	286.32	Chiral ligand and organocatalyst intermediate
35193-64-7	(S)-(+)-1,1'-Binaphthyl-2,2'-diyl hydrogenphosphate (S-BNP acid)	C ₂₀ H ₁₃ O ₄ P	348.29	Chiral Brønsted-acid catalysis and resolution
39648-67-4	(R)-(-)-1,1'-Binaphthyl-2,2'-diyl hydrogenphosphate (R-BNP acid)	C ₂₀ H ₁₃ O ₄ P	348.29	Chiral Brønsted-acid catalysis and resolution
135616-36-3	(S,S)-(+)-Salen ligand (Jacobsen's ligand)	C ₃₆ H ₅₄ N ₂ O ₂	546.83	Ligand for asymmetric epoxidation and salen complexes
135616-40-9	(R,R)-(-)-Salen ligand (Jacobsen's ligand)	C ₃₆ H ₅₄ N ₂ O ₂	546.83	Ligand for asymmetric epoxidation and salen complexes
1121-22-8	(+/-)-trans-1,2-Diaminocyclohexane	C ₆ H ₁₄ N ₂	114.19	Ligand, resolving-agent and pharmaceutical intermediate
21436-03-3	(1S,2S)-(+)-1,2-Diaminocyclohexane	C ₆ H ₁₄ N ₂	114.19	Chiral ligand and pharmaceutical intermediate
20439-47-8	(1R,2R)-(-)-1,2-Diaminocyclohexane	C ₆ H ₁₄ N ₂	114.19	Chiral ligand and pharmaceutical intermediate

Semiconductor & Electronics (Ruthenium precursors | ULSI-grade chemicals)

CAS No.	Product name	Formula	MW (g/mol)	Primary application
1287-13-4	Ruthenocene	C ₁₀ H ₁₀ Ru	231.26	Ru thin-film ALD/CVD precursor for advanced nodes
32992-96-4	Bis(ethylcyclopentadienyl)ruthenium(II)	C ₁₄ H ₁₈ Ru	287.36	Liquid ruthenium precursor for ALD/CVD metallization
12132-87-5	Dicarbonylcyclopentadienylruthenium(II) dimer	C ₁₄ H ₁₀ O ₄ Ru ₂	444.37	Ruthenium precursor for ALD/CVD thin-film deposition
15243-33-1	Triruthenium dodecacarbonyl	Ru ₃ (CO) ₁₂	639.33	CVD/ALD ruthenium metallization precursor
120-92-3	Cyclopentanone (ULSI Grade)	C ₅ H ₈ O	84.12	High-purity photoresist and electronic-grade solvent
99-82-1	p-Menthane	C ₁₀ H ₂₀	140.27	High-purity electronic-grade solvent for semiconductor processing

**Need a product
not listed?**

Share the target molecule, transformation, specification and scale. SWC can review custom synthesis and scale-up feasibility.