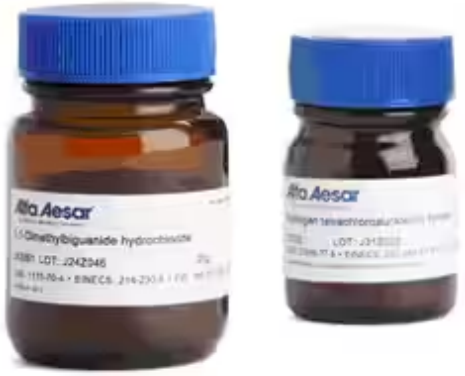
Organometallics

Organometallic compounds are characterized by at least one bond between a carbon atom of an organic compound and a metal atom. Gilman reagents, ferrocene, diethylmagnesium, Grignard reagents, organolithium compounds, organozinc compounds, and organocopper compounds are some examples of organometallics. These compounds are a diverse and versatile family of molecules which have a wide range of potential applications in many domains of life. Organometallic chemistry has produced many Nobel laureates. As the character of metal-carbon bonds lie in between ionic and covalent, organometallics are both relatively stable in solutions and relatively ionic to undergo reactions, which make them very important in industry.

Ferrocenes



Ferrocene is a metallocene in which two cyclopentadienyl groups are bonded to iron and is an example of sandwich compound. Its structural and chemical features find applications in several fields. Chiral ferrocenyl phosphines, like diphosphine 1,1'-bis(diphenylphosphino)ferrocene (dppf) are used in transition metal-catalyzed reactions to synthesize pharmaceuticals and agrochemicals. Ferrocene modifications of several organic compounds for medicinal applications are presented in the review: Snegur, L.V.; Simenel, A. A.; Rodionov, A. N.; Boev, V. I. Ferrocene modification of organic compounds for medicinal applications. *Russ. Chem. Bull.* **2014,** *63,* 26-36).

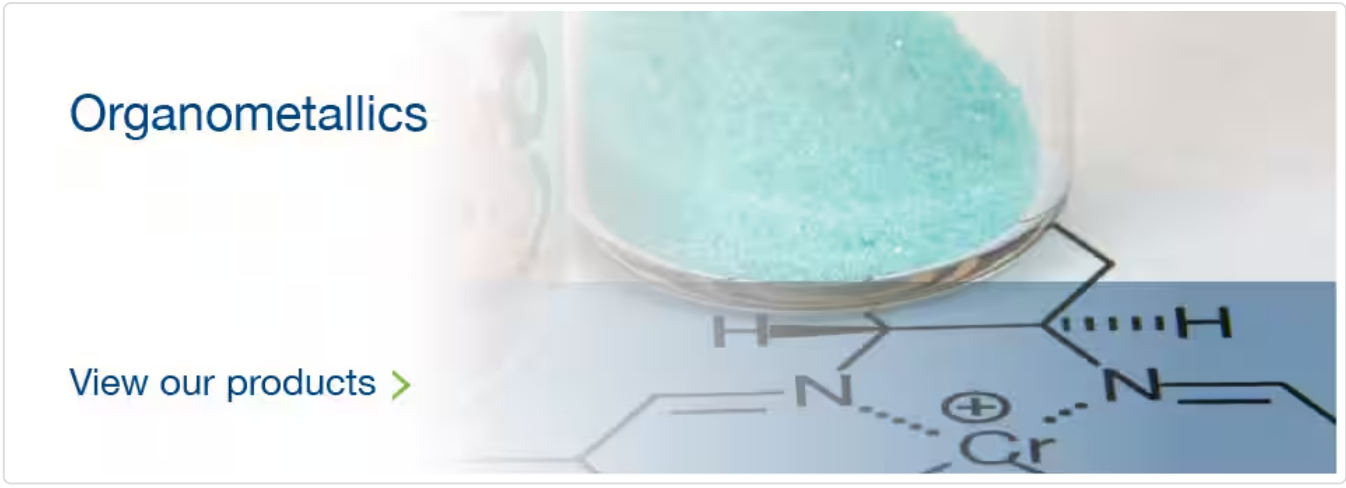
H60364	(+)-1,1'-Bis[(2R,5R)-2,5-diethyl-1-phospholanyl]ferrocene, 97+%
H60460	1,1'-Bis[(2R,5R)-2,5-diisopropyl-1-phospholanyl]ferrocene, 97+%
H60587	1,1'-Bis[(2R,5R)-2,5-dimethyl-1-phospholanyl]ferrocene, 97+%
H60156	1,1'-Bis[(2S,5S)-2,5-dimethyl-1-phospholanyl]ferrocene, 97+%
H27293	1,1'-Bis(dichlorophosphino)ferrocene, 98%
H27388	1,1'-Bis(dicyclohexylphosphino)ferrocene, 98%
H27057	1,1'-Bis(diisopropylphosphino)ferrocene, 98%
B21166	1,1'-Bis(diphenylphosphino)ferrocene, 97%
L19759	1,1'-Bis(di-tert-butylphosphino)ferrocene, 98%
L17045	1,1'-Dibromoferrocene, 96%
A12175	1,1'-Dimethylferrocene, 97%
44292	1,1'-Ferrocenedicarboxaldehyde, 97%
A16691	1,1'-Ferrocenedicarboxylic acid, 97+%
44618	1,2,3,4,5-Pentaphenyl-1'-(di-tert-butylphosphino)ferrocene, CTC-Q-PHOS, 95%

A13078	1-Acetylferrocene, 97%
L19681	(±)-1-Ferrocenylethanol, 99%
A17685	Benzoylferrocene, 98%
H26076	Bromoferrocene, 95%
39404	Butyrylferrocene, 99%
39406	Decamethylferrocene, 99%
H26895	Dichloro[1,1'-bis(diphenylphosphino)ferrocene]nickel(II), 99%
46902	Diiodo[1,1'-bis(di-tert-butylphosphino)ferrocene]palladium(II)
L07915	(Dimethylaminomethyl)ferrocene, 98+%
H29183	Di-tert-butylphosphinoferrocene, 95%
39253	Ethylferrocene, 98%
87202	Ferrocene, 99%
44131	Ferroceneacetonitrile, 97%
39254	Ferrocenecarboxaldehyde, 97%
A16874	Ferrocenecarboxylic acid, 97+%
B25007	Ferrocene, high purity, 99+%
39399	(Ferrocenylmethyl)trimethylammonium iodide
39257	Hydroxymethylferrocene, 97%

	A16719	n-Butylferrocene, 98%
	H25817	(R)-(-)-N-Methyl-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethylamine
	L19679	(R)-(+)-N,N-Dimethyl-1-ferrocenylethylamine, 97%
	H25778	(R)-(-)-N,N-Dimethyl-1-ferrocenylethylamine (L)-tartrate, 95%
	L19685	(R)-(-)-N,N-Dimethyl-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethylamine, 97%
	H63593	(R,R)-[2-(4-Isopropyl-2-oxazolinyl)ferrocenyl]diphenylphosphine, 97%
	L19683	(S)-1-Ferrocenylethanol, 99%
	H25816	(S)-(+)-N-Methyl-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethylamine
	L19680	(S)-(-)-N,N-Dimethyl-1-ferrocenylethylamine, 98%
	H25777	(S)-(+)-N,N-Dimethyl-1-ferrocenylethylamine (L)-tartrate, 95%
	L19686	(S)-(+)-N,N-Dimethyl-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethylamine, 97%
	H63816	(S,S)-[2-(4-Isopropyl-2-oxazolinyl)ferrocenyl]diphenylphosphine, 97%
	39405	tert-Butylferrocene, 98%
	17450	Vinylferrocene

Grignard Reagents

The Grignard reagent is highly reactive and reacts with most organic compounds. It also reacts with water, carbon dioxide and oxygen. Grignard reagents are prepared by the reaction of magnesium metal with appropriate alkyl halide in ether solvent. The halogen may be -Cl, -Br, or -I. One of the most important uses of the Grignard Reagent is the reaction with aldehydes and ketones to form alcohol. A related synthesis uses ethylene oxide to prepare alcohols containing two more carbon atoms than that of the alkyl halide.



H51172	1-Dodecylmagnesium bromide, 0.5M in MeTHF
H51173	1-Heptylmagnesium chloride, 1M in MeTHF
H51167	1-Hexylmagnesium chloride, 1M in MeTHF
H51159	1-Naphthylmagnesium bromide, 0.5M in MeTHF
H51174	1-Octylmagnesium chloride, 1M in MeTHF
H51175	1-Pentylmagnesium chloride, 1M in MeTHF
H54282	2,4,6-Trimethylphenylmagnesium bromide, 1M in 2-MeTHF
H54159	2,4-Dichlorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54966	2,4-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H54134	2,4-Dimethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54337	2,5-Dimethoxyphenylmagnesium bromide, 0.5M in 2-MeTHF
H54189	2,6-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H54138	2,6-Dimethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H51171	2-Butenylmagnesium chloride, 0.5M in MeTHF
H54799	2-Chloro-4-fluorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54643	2-Chloro-6-fluorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54820	2-Chlorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H54881	2-Fluorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H54177	2-Methoxybenzylmagnesium chloride, 0.25M in 2-MeTHF

H54388	2-Methyl-1-naphthylmagnesium bromide, 0.25 M in 2-MeTHF
H51160	2-Naphthylmagnesium bromide, 0.25M in MeTHF
H54133	3,4-Dichlorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54312	3,4-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H54197	3,4-Difluorophenylmagnesium bromide, 0.50 M in 2-MeTHF
H54654	3,4-Dimethoxyphenylmagnesium bromide, 0.5M in THF
H54632	3,4-(Methylenedioxy)phenylmagnesium bromide, 0.50 M in 2-MeTHF
H54427	3,5-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H54622	3,5-Difluorophenylmagnesium bromide, 0.50M in 2-MeTHF
H54781	3,5-Dimethyl-4-methoxyphenylmagnesium bromide, 0.5M in 2-MeTHF
H54057	3,5-Dimethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54075	3-Chloro-4-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54775	3-Chloro-5-fluorophenylmagnesium bromide, 0.50 M in 2-MeTHF
H54237	3-Chlorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H51161	3-Chlorophenylmagnesium bromide, 1M in MeTHF
H54830	3-Fluoro-4-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H51168	3-Fluorophenylmagnesium bromide, 1M in MeTHF
H54335	3-Methoxybenzylmagnesium chloride, 0.25M in 2-MeTHF

H54780	3-Methoxyphenylmagnesium bromide, 1.0 M in 2-MeTHF
H54115	4-(2-Tetrahydropyranyloxy)phenylmagnesium bromide, 0.5M in 2-MeTHF
H54625	4-Chlorobenzylmagnesium chloride, 0.50M in 2-Me-THF
H51163	4-Chlorophenylmagnesium bromide, 1M in MeTHF
H54137	4-Ethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54865	4-Fluoro-2-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54585	4-Fluoro-3-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54990	4-Fluorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H51169	4-Fluorophenylmagnesium bromide, 1M in MeTHF
H54201	4-Isobutylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54078	4-Methoxybenzylmagnesium chloride, 0.25M in 2-MeTHF
89435	4-Methoxyphenylmagnesium bromide, 0.5M in THF
H54317	4-Methoxyphenylmagnesium bromide, 1.0 M in 2-MeTHF

H54411	4-Phenoxyphenylmagnesium bromide, 0.5 M in 2-MeTHF
H54284	4-tert-Butylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54501	5-Chloro-2-methoxyphenylmagnesium bromide, 0.50M in 2-MeTHF
H54234	5-Fluoro-2-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54545	9-Phenanthrylmagnesium bromide, 0.25 M in 2-MeTHF
H51170	Allylmagnesium chloride, 1M in MeTHF
87299	Benzylmagnesium chloride, 1-2M in THF
H51154	Benzylmagnesium chloride, 1M in MeTHF
H51165	Cyclohexylmagnesium chloride, 1M in MeTHF
H51166	Cyclopentylmagnesium chloride, 1M in MeTHF
H51158	Cyclopropylmagnesium bromide, 0.5M in MeTHF
H26273	Cyclopropylmagnesium bromide, 0.5M solution in THF, AcroSeal®
87291	Ethylmagnesium bromide, 3M in ether
41675	Ethylmagnesium bromide, 3M in ether, packaged under Argon in resealable ChemSeal bottles
H54840	Isopropylmagnesium bromide, 3M in 2-MeTHF
H51155	Isopropylmagnesium chloride, 1M in MeTHF
H51156	Isopropylmagnesium chloride - LiCl complex, 1M in MeTHF

87324	Methylmagnesium bromide, 3M in ether
41252	Methylmagnesium bromide, 3M in ether, packaged under Argon in resealable ChemSeal□ bottles
42101	Methylmagnesium chloride, 3M in THF, packaged under Argon in resealable ChemSeal□ bottles
41676	n-Butylmagnesium chloride, 1.5-2.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51162	n-Propylmagnesium chloride, 1M in MeTHF
H54729	Phenylmagnesium bromide, 3M in 2-MeTHF
87326	Phenylmagnesium bromide, 3M in ether
42859	Phenylmagnesium bromide, 3M in ether, packaged under Argon in resealable ChemSeal□ bottles
H51164	tert-Butylmagnesium chloride, 1M in MeTHF
H54824	tert-Pentylmagnesium chloride, 1M in 2-MeTHF
H54635	(Trimethylsilyl)methylmagnesium chloride, 0.5M in 2-MeTHF

Organometallic Amines

The group IV metals such as titanium, zirconium and hafnium form amido complexes in organometallic chemistry; for example, the bridged bis-amido group 4 metal compounds find application as catalysts in the polymerization of alpha olefins. The amido complexes of late transition metals have been successfully applied in several catalytic C-N bond forming reactions. Di(t-butyl)amido complexes of transition metals are useful in the chemical vapor deposition of metals and metal nitrides.

H55634	Azidotri-n-butyltin(IV), 95%
46381	Barium bis(trifluoromethylsulfonyl)imide
46533	Calcium bis(trifluoromethylsulfonyl)imide
13765	Chloropentaamminecobalt(III) chloride
47053	Cobalt bis(trifluoromethylsulfonyl)imide
47162	Copper bis(trifluoromethylsulfonyl)imide
L07915	(Dimethylaminomethyl)ferrocene, 98+%
47186	Iron tris(trifluoromethylsulfonyl)imide
L08269	Lithium aluminum di-n-butylamide, 0.16M soln. in 1,2-dimethoxyethane
H27307	Lithium bis(trifluoromethylsulfonyl)imide, 98+%
42595	Lithium bis(trimethylsilyl)amide
41872	Lithium bis(trimethylsilyl)amide, 0.9-1.1M in hexane, packaged under Argon in resealable ChemSeal□ bottles
L15012	Lithium bis(trimethylsilyl)amide, 20% (ca 1.06M) soln. in THF/ethylbenzene, packaged in resealable septum cap bottle
44145	Lithium dimethylamide, 96%
46667	Magnesium bis(trifluoromethylsulfonyl)imide
47179	Manganese bis(trifluoromethylsulfonyl)imide
47156	Mercury bis(trifluoromethylsulfonyl)imide

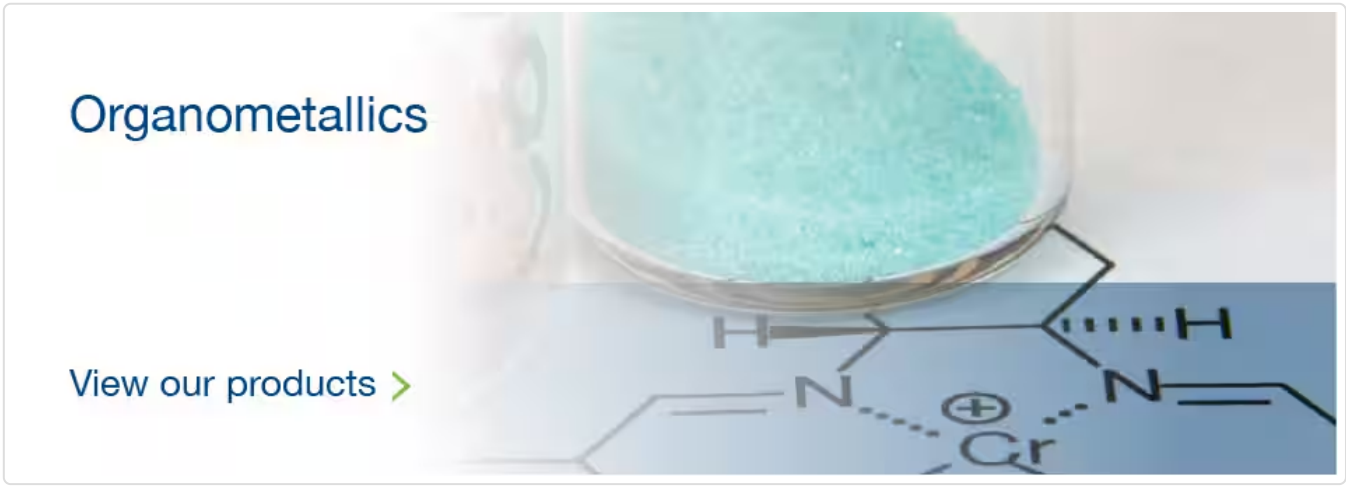
47102	Nickel bis(trifluoromethylsulfonyl)imide
43174	N,N'-Bis(salicylidene)ethylenediaminecobalt(II), 96%
46909	Potassium bis(trifluoromethylsulfonyl)imide
H25817	(R)-(-)-N-Methyl-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethylamine
L19679	(R)-(+)-N,N-Dimethyl-1-ferrocenylethylamine, 97%
H25778	(R)-(-)-N,N-Dimethyl-1-ferrocenylethylamine (L)-tartrate, 95%
L19685	(R)-(-)-N,N-Dimethyl-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethylamine, 97%
46948	Scandium(III) bis(trifluoromethylsulfonyl)imide
46784	Silver bis(trifluoromethylsulfonyl)imide
H25816	(S)-(+)-N-Methyl-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethylamine
L19680	(S)-(-)-N,N-Dimethyl-1-ferrocenylethylamine, 98%
H25777	(S)-(+)-N,N-Dimethyl-1-ferrocenylethylamine (L)-tartrate, 95%
L19686	(S)-(+)-N,N-Dimethyl-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethylamine, 97%
46640	Sodium bis(trifluoromethylsulfonyl)imide
L08779	Sodium bis(trimethylsilyl)amide, 1M soln. in THF
L13352	Sodium bis(trimethylsilyl)amide, 2M soln. in THF
33505	Sodium bis(trimethylsilyl)amide, 98%

Organometallic Heterocycles

Organometallic heterocycles cover a wide variety of products produced by the bonding of a heterocycle to a metal.

The most significant are:

1. Lithium and magnesium compounds, which are nucleophilic and basic.
2. Zinc, aluminum, and titanium compounds, which nucleophilic and usually not basic.
3. Compounds of tin, boron, and silicon.
4. Most importantly, compounds of the transition metals, especially palladium, copper, nickel, and rhodium.



	30557	1,10-Phenanthroline iron(II) perchlorate
	30562	1,10-Phenanthroline iron(II) sulfate, 0.025M aq. soln.
	H60460	1,1'-Bis[(2R,5R)-2,5-diisopropyl-1-phospholanyl]ferrocene, 97+%
	H60587	1,1'-Bis[(2R,5R)-2,5-dimethyl-1-phospholanyl]ferrocene, 97+%
	H60156	1,1'-Bis[(2S,5S)-2,5-dimethyl-1-phospholanyl]ferrocene, 97+%
	H51523	1-Methyl-2-(tri-n-butylstannyl)imidazole, 90+%
	H51515	1-Methyl-2-(tri-n-butylstannyl)indole, 96%
	H51438	1-Methyl-2-(tri-n-butylstannyl)pyrrole, 98%
	H51405	1-Methyl-5-(tri-n-butylstannyl)imidazole, 90+%
	H60423	2-[(11bR)-3H-Binaphtho[2,1-c:1',2'-e]phosphepin-4(5H)-yl]ethylamine, 97+%
	H51545	2-(4-Morpholinyl)-5-(tri-n-butylstannyl)pyridine, 95%
	H51512	2-Chloro-5-(tri-n-butylstannyl)pyrimidine, 95%
	H51537	2-Chloro-5-(tri-n-butylstannyl)thiazole, 95%
	H51505	2-Ethoxy-4-(tri-n-butylstannyl)thiazole, 96%

H51500	2-Ethoxy-5-(tri-n-butylstannyl)pyrimidine, 98%
H51462	2-Methoxy-3-(tri-n-butylstannyl)pyridine, 95%
H51493	2-Methoxy-4-(tri-n-butylstannyl)thiazole, 96%
H51528	2-Methoxy-6-(tri-n-butylstannyl)pyrazine, 95%
H51567	2-Methyl-6-(tri-n-butylstannyl)pyridine, 96%
H51574	2-Methylsulfonyl-5-(tri-n-butylstannyl)pyrimidine, 96%
H51465	2-Methylthio-4-(tri-n-butylstannyl)pyrimidine, 96%
H51508	2-Methylthio-5-(tri-n-butylstannyl)pyridine, 95%
H51477	2-Methylthio-5-(tri-n-butylstannyl)pyrimidine, 96%
H55348	2-(Tri-n-butylstannyl)benzo[b]thiophene, 95%
H55259	2-(Tri-n-butylstannyl)furan, 97%
H55870	2-(Tri-n-butylstannyl)oxazole, 95%
H51370	2-(Tri-n-butylstannyl)pyrazine, 95%
B24911	2-(Tri-n-butylstannyl)pyridine, tech. 80%
H51090	2-(Tri-n-butylstannyl)thiazole, 96%
H55904	2-(Tri-n-butylstannyl)thiophene, 97%
H51488	3-Isopropoxy-4-(tri-n-butylstannyl)-3-cyclobutene-1,2-dione, 97%
H51540	3-Methyl-2-(tri-n-butylstannyl)pyridine, 96%
H51268	3-(Tri-n-butylstannyl)pyridine, 97%

H51472	4-Methyl-2-(tri-n-butylstannyl)pyridine, 96%
H51435	4-(Tri-n-butylstannyl)pyridine, 96%
H51457	4-(Tri-n-butylstannyl)thiazole, 95%
H51377	5-Methyl-2-(tri-n-butylstannyl)pyridine, 96%
H51531	5-Methyl-2-(tri-n-butylstannyl)thiazole, 90+%
H51458	5-(Tri-n-butylstannyl)pyrimidine, 96%
H51471	8-(Tri-n-butylstannyl)quinoline, 95%
H63492	Bis[(2R,5R)-1-(2-[(2R,5R)-2,5-dimethyl-1-phospholanyl]phenyl)-2,5-dimethylphospholane 1-oxide]copper(I) triflate, 97%
H51258	cis-1-Ethoxy-2-(tri-n-butylstannyl)ethylene, 94%
41496	Cobalt(II) phthalocyanine
43650	Copper(II) phthalocyanine
B21278	Dibenzyl diselenide, 95%
42676	Dihydroxybis(ammonium lactato)titanium(IV), 50% w/w aq. soln.
H51434	Ethyl 5-(tri-n-butylstannyl)isoxazole-3-carboxylate, 96%
33738	Iron(III) meso-tetraphenylporphine-μ-oxo dimer
39262	Iron(II) phthalocyanine, 96%
H37915	Lithium methyltriolborate, 94%

39334	Lithium phthalocyanine
39316	Magnesium meso-tetraphenylporphine monohydrate
38601	Magnesium phthalocyanine, tech. 90%
39458	Nickel dimethylglyoxime, 99%
39453	Nickel(II) phthalocyanine
B21125	N-(Phenylseleno)phthalimide, tech. 85%
44231	Octakis(trimethylsiloxy)silsesquioxane
A11752	Pyridinium chlorochromate, 98%
L15132	Pyridinium dichromate, 98%
H63593	(R,R)-[2-(4-Isopropyl-2-oxazolinyl)ferrocenyl]diphenylphosphine, 97%
H63816	(S,S)-[2-(4-Isopropyl-2-oxazolinyl)ferrocenyl]diphenylphosphine, 97%
39594	Tetrachlorobis(tetrahydrofuran)titanium(IV), 97+%
39550	Tetrachlorobis(tetrahydrofuran)zirconium(IV)
39607	Tin(II) phthalocyanine
44282	Tris(2-phenylpyridine)iridium(III)
43345	Tris(4,4,4-trifluoro-1-(2-thienyl)-1,3-butanediono)europium(III) hydrate

	44123	Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) dichloride
	H55656	Tris(8-hydroxyquinolinato)aluminum, 99%
	39586	Vanadium(IV) etioporphyrin III oxide
	39583	Vanadium(IV) oxide meso-tetraphenylporphine
	39587	Vanadium(IV) oxide phthalocyanine
	39553	Zinc phthalocyanine, 95%

Organometallic Hydroxides & Oxides

Organometallic hydroxides contain a hydroxyl group attached to one or more metal atoms of organometallic compounds. The preparation of soluble organometallic hydroxides is a key step in the preparation of organometallic oxides containing the heterobimetallic M-O-M' unit. For a comprehensive review of transition-meal based organometallic hydroxides, see: Roesky, H. W.; Singh, S.; Yusuff, K. K. M.; Maguire, J. A.; Hosmane, N. S. Organometallic Hydroxides of Transition Elements. *Chem. Rev.* **2006,** *106,* 3813-3843. Owing to the tendency of the OH moiety to act as a bridging group, many of them are dimeric, although trimers and tetramers are reported.

36594	Aluminum calcium isopropoxide, 99.8% (metals basis), 10% w/v in isopropanol
89350	Aluminum di(isopropoxide)acetoacetic ester chelate, Al 9.6% min
89349	Aluminum di(sec-butoxide)acetoacetic ester chelate, tech., Al 8.4% min
41336	Aluminum ethoxide
14007	Aluminum isopropoxide, 98+%
22982	Aluminum isopropoxide, 99.99+% (metals basis)
41262	Aluminum lanthanum isopropoxide, 99% (metals basis), 7% w/v in isopropanol
39320	Aluminum magnesium isopropoxide, 99.95+% (metals basis)
36591	Aluminum magnesium isopropoxide, 99.9% (metals basis), 10% w/v in isopropanol
87754	Aluminum n-butoxide, 90+%
42376	Aluminum nickel isopropoxide, 99.9% (m.b.), 10% w/v in isopropanol, packaged under Ar in resealable ChemSeal□ bottles
42375	Aluminum nickel isopropoxide, 99.9% (metals basis)
30721	Aluminum sec-butoxide, 95%

43712	Aluminum sec-butoxide, 95%, packaged under Argon in resealable ChemSeal bottles
A13044	Aluminum sec-butoxide, 97%
89891	Aluminum tert-butoxide, 97%
43097	Antimony(III) ethoxide, 99.9% (metals basis)
36589	Antimony(III) isopropoxide, 99.9% (metals basis)
33495	Antimony(III) methoxide, 95%
43295	Antimony(III) n-butoxide, 99+%
33496	Antimony(III) n-butoxide, 99.9% (metals basis), Sb(III) 36.0%
41257	Barium 1-methoxy-2-propoxide, 25% w/w in 1-methoxy-2-propanol
41256	Barium 2-methoxyethoxide, 99.5% (metals basis), 10% w/v in 2-methoxyethanol
36588	Barium ethoxide, 99.5% (metals basis), 10% w/v in ethanol
14523	Barium isopropoxide
41338	Barium isopropoxide, 20% w/v in isopropanol
41271	Barium isopropoxide, 99.5% (metals basis)
43893	Barium titanium(IV) 2-ethylhexanoate pentaisopropoxide, 99.5+% (metals basis), produces 5% $BaTiO_3$, in isopropanol
41047	Barium zirconium isopropoxide, 10% w/v in isopropanol
43938	Bismuth(III) isopropoxide
42839	Bismuth titanium isopropoxide, 5% w/v in isopropanol

40471	Cerium(IV) 2-methoxyethoxide, 18-20% w/w in 2-methoxyethanol
42819	Cobalt(II) 2-methoxyethoxide, 5% w/v in 2-methoxyethanol, 99% (m.b.), packaged under Ar in resealable ChemSeal bottles
41237	Cobalt(II) 2-methoxyethoxide, 99% (metals basis), 5% w/v in 2-methoxyethanol
42810	Cobalt(II) isopropoxide
46316	Copper(II) ethoxide, 98%
35821	Copper(II) isopropoxide, 98% (metals basis)
18861	Copper(II) methoxide, typically 98% (metals basis)
39615	Diphenyltin oxide
36585	Dysprosium(III) isopropoxide, 99.9% (REO), 5% w/v in toluene/isopropanol
36613	Erbium(III) isopropoxide
42277	Gadolinium(III) isopropoxide, 99.9% (metals basis), 5% w/v in toluene/isopropanol (3:2)
41377	Gadolinium(III) isopropoxide, 99% (REO)
44859	Gallium(III) ethoxide
36583	Gallium(III) isopropoxide, mixture of oligomers, 99%
14679	Germanium(IV) ethoxide, 97%
43052	Germanium(IV) ethoxide, 99.995% (metals basis)

41607	Hafnium ethoxide, 99.9% (metals basis)
H52288	Hafnium(IV) isopropoxide isopropanol adduct, 99%
41908	Hafnium tert-butoxide, 99.9% (metals basis excluding Zr), Zr< 0.5%
44769	Indium(III) ethoxide, 99.9% (metals basis)
42098	Indium(III) isopropoxide, 99.9% (metals basis)
44562	Indium(III) isopropoxide, 99+% (metals basis), 5% w/v isopropanol
40584	Iron(II) 2-ethylhexanoate monoisopropoxide, 5% w/v in hexane
40583	Iron(III) 2-ethylhexanoate diisopropoxide, 10% w/v in isopropanol
41863	Iron(III) ethoxide, 99.6% (metals basis)
45861	Iron(III) ethoxide, soluble polymeric mixture
43024	Iron(III) isopropoxide, 2.5% w/v in isopropanol
44873	Iron(III) isopropoxide, 98%
22552	Iron(II) methoxide, 98%
42522	Lanthanum(III) 2-methoxyethoxide, 99.9% (REO), 5% w/v in 2-methoxyethanol
35791	Lanthanum(III) ethoxide, 95% (REO)
14616	Lanthanum(III) isopropoxide, La 40%
36576	Lead(II) titanium(IV) 2-ethylhexanoate tetraisopropoxide, 99% (metals basis), 50% w/v in isopropanol

39153	Lead(II) titanium(IV) isopropoxide, 99.9% (metals basis), 5% w/v in isopropanol
36575	Lead(II) zirconium(IV) 2-ethylhexanoate tetraisopropoxide, 99% (metals basis), 10% w/v in hexane
42930	Lithium isopropoxide, 99.9% (metals basis)
44129	Lithium methoxide, 98+%
39155	Lithium niobium ethoxide, 99+% (metals basis), 5% w/v in ethanol
44451	Lithium niobium isopropoxide, 99.9% (metals basis)
43175	Lithium niobium isopropoxide, 99+% (metals basis), 5% w/v in isopropanol
39154	Lithium niobium methoxide, 99+% (metals basis), 5% w/v in methanol
42344	Lithium tantalum ethoxide, 99.9% (metals basis), 5% w/v in ethanol
40520	Lithium tantalum isopropoxide, 99.9% (metals basis)
46366	Lithium tert-butoxide, 99%
44133	Lithium tert-butoxide, 99.9% (metals basis)
14264	Magnesium ethoxide, Mg 21-22%
40448	Magnesium methoxide, 7-8% in methanol
L19745	Magnesium tert-butoxide, 90+%

22563	Manganese(II) methoxide
41836	Molybdenum(V) isopropoxide, 99.6% (m.b.), 5% w/v in isopropanol, packaged under Argon in resealable ChemSeal□ bottles
39159	Molybdenum(V) isopropoxide, 99.6% (metals basis), 5% w/v in isopropanol
41484	Molybdenum(V) isopropoxide, 99+% (metals basis)
44474	Molybdenum(V) trichloride-isopropoxide, 25% (w/v) in isopropanol
36573	Neodymium(III) isopropoxide, 99% (REO), 2.5% w/v in toluene/isopropanol
42377	Nickel 2-methoxyethoxide, 5% w/v in 2-methoxyethanol
42378	Nickel 2-methoxyethoxide, 5% w/v in 2-methoxyethanol, packaged under Argon in resealable ChemSeal□ bottles
42380	Nickel(II) 2-ethylhexanoate monoisopropoxide, 99+% (m.b.), 5% w/v in isprpnl, pkgd under Ar in rslble ChemSeal bottles
42381	Nickel(II) 2-ethylhexanoate monoisopropoxide, 99+% (metals basis), 5% w/v in isopropanol
36572	Niobium isopropoxide, 99% (metals basis), 10% w/v in isopropanol/hexane (50:50)
36570	Niobium n-butoxide, 99% (metals basis)
36569	Niobium n-pentyloxide, 99% (metals basis)
36571	Niobium n-propoxide, 99% (metals basis)
39165	Niobium potassium isopropoxide, 2.5% w/v in isopropanol, 99% (metals basis)

14263	Potassium ethoxide, 95%
39161	Potassium ethoxide, 99+% (metals basis), 15% w/v in ethanol
39162	Potassium isopropoxide, 99% (metals basis), 5% w/v in isopropanol
42551	Potassium methoxide, 5% w/v in methanol
14261	Potassium methoxide, 90+%
45651	Potassium tantalum isopropoxide, 2.5% w/v in isopropanol
41394	Potassium tert-pentyloxide, 14-18% w/v in cyclohexane
39430	Praseodymium(III) isopropoxide
45590	Sodium ethoxide, 21% w/w soln. in ethanol, packaged under Argon in resealable ChemSeal□ bottles
89446	Sodium isopropoxide
45648	Sodium isopropoxide isopropanol adduct, 95%
46585	Sodium methoxide, ca 25% w/w in methanol
14481	Strontium isopropoxide, 96%
L10288	Tantalum(V) ethoxide, 99+%
14643	Tantalum(V) ethoxide, 99.999% (metals basis), Nb <100ppm
L16033	Tantalum(V) ethoxide, optical grade, 99.95% (metal basis)

40038	Tantalum(V) isopropoxide, 99.9% (metals basis), 10% w/v in isopropanol/hexane
18839	Tantalum(V) methoxide
39630	Tantalum(V) tetraethoxide 2,4-pentanedionate, 99.99%, (metals basis)
41105	Tellurium(IV) ethoxide, tech. 85%, remainder ethanol
36565	Tellurium(IV) isopropoxide, 99.9% (metals basis)
78131	Thallium(I) ethoxide, 95%
36562	Tin(IV) tert-pentyloxide, 5% w/v in 2-methyl-2-butanol, 99% (metals basis)
89360	Titanium(diisopropoxide) bis(2,4-pentanedionate), 75% in isopropanol
44681	Titanium(IV) butoxy isopropoxy complexes, VERTEC® BIP
77142	Titanium(IV) ethoxide, TiO₂ 33% min
44670	Titanium(IV) ethoxide, VERTEC® ET, 99+%
89455	Titanium(IV) isobutoxide
A13703	Titanium(IV) isopropoxide, 95%
77115	Titanium(IV) isopropoxide, 97+%
35794	Titanium(IV) isopropoxide, 99.995% (metals basis)
77137	Titanium(IV) methoxide, 95%
77124	Titanium(IV) n-butoxide, 99+%
44673	Titanium(IV) n-propoxide, VERTEC® NPT, 98+%

39171	Tungsten(V) dichloride triethoxide, 10% w/v in ethanol
41794	Tungsten(V) ethoxide
45659	Tungsten(V) ethoxide 1,2-dimethoxyethane adduct, 99%
41795	Tungsten(VI) ethoxide
39170	Tungsten(VI) ethoxide, 99.8% (metals basis), 5% w/v in ethanol
39587	Vanadium(IV) oxide phthalocyanine
89798	Vanadium(V) triisopropoxide oxide, 96%
39579	Ytterbium(III) isopropoxide
41793	Yttrium(III) 2-methoxyethoxide, 5% w/v in 2-methoxyethanol
14524	Yttrium(III) isopropoxide, 20-25% w/w in toluene
14477	Yttrium(III) isopropoxide, 90+%
43903	Zinc 2-methoxyethoxide, 5% w/v in 2-methoxyethanol
40718	Zinc tert-butoxide
18859	Zirconium(IV) ethoxide, 99%
86118	Zirconium(IV) isopropoxide isopropanol complex
22989	Zirconium(IV) n-propoxide, 70% w/w in n-propanol

	44770	Zirconium(IV) n-propoxide, 70% w/w in n-propanol, packaged under Argon in resealable ChemSeal□ bottles
	39543	Zirconium(IV) oxide 2-ethylhexanoate, in mineral spirits (≈6% Zr)
	42583	Zirconium(IV) tert-butoxide, 97+%
	39546	Zirconium(IV) tert-butoxide, 99.99% (metals basis)
	39547	Zirconium(IV) tert-butoxide, 99% (metals basis)
	B23317	Zirconium n-butoxide, 80% w/w in 1-butanol

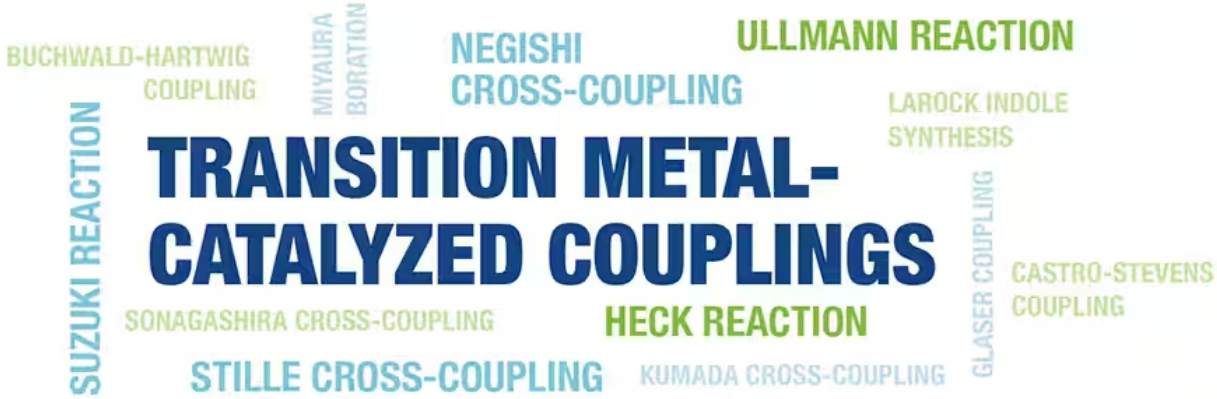
Organotin hydroxides

Organotin hydroxides and oxides are common products obtained from the hydrolysis of the corresponding organotin halides. Three types of organotin hydroxides and oxides are known, triorganotin hydroxides and oxides [R_3SnOH and $R_3SnOSnR_3$], diorganotin hydroxides and oxides [$R_2Sn(OH)_2$ and R_2SnO] and monoorganotin hydroxides and oxides. Triorganotin derivatives are the structurally simplest oxides and hydroxides.

71164	Dimethyltin oxide
14117	Di-n-butyltin oxide
L14491	Di-n-butyltin oxide, 98%
71193	Di-n-octyltin oxide
A18290	n-Butyltin hydroxide oxide, 95%
A18611	Sodium tin(IV) oxide trihydrate, 96%
20896	Tin(II) ethoxide
20897	Tin(II) methoxide
39169	Tin(IV) 2-ethylhexanoate diisopropoxide, 98% (metals basis)
36563	Tin(IV) isopropoxide, 98% (metals basis), 10% w/v in isopropanol/toluene
45480	Tin(IV) isopropoxide, 99% (metals basis), 10% w/v in isopropanol
41269	Tin(IV) isopropoxide isopropanol adduct, 98% (metals basis)
L16034	Tin(IV) tert-butoxide, 99.5%
71167	Trimethyltin hydroxide, 98%
H31562	Tri-n-butyl(1-ethoxyvinyl)tin, 95%
A13355	Tri-n-butyltin methoxide, 97%
71177	Triphenyltin hydroxide

Other Organometallic Compounds

Examples for other organometallic compounds include organocopper compounds such as (lithium dimethylcuprate ($Li^+[CuMe_2]^-$)) which are called Gilman reagents, organonickel compounds (like tetracarbonyl nickel), organoiron compounds, organolithium compounds (such as n-butyl lithium), organozinc compounds (such as diethylzinc (Et_2Zn) and chloro(ethoxycarbonylmethyl)zinc ($ClZnCH_2C(=O)OEt$)), and organoaluminium compounds.



H26083	(1,5-Cyclooctadiene)rhodium(I) 2,4-pentanedionate
46884	1-Hydroxytetraphenylcyclopentadienyl(tetraphenyl-2,4-cyclopentadien-1-one)-μ-hydrotetracarbonyldiruthenium(II), 98%
L20201	1-Propynyltri-n-butyltin, 96%
38596	(2,2,6,6-Tetramethyl-3,5-heptanedionato)lithium, 98%
L14087	Allyltri-n-butyltin, 97%
12542	Aluminum 2,4-pentanedionate
44538	Aluminum 2,4-pentanedionate, 99.995+% (metals basis)
A11620	Aluminum acetate, basic hydrate
42003	Aluminum acrylate
39122	Aluminum lactate, 90+%, contains ≈5% water
44149	Aluminum oxalate hydrate, 99%
39125	Aluminum stearate, tech.
11599	Ammonium acetate, ACS, 97.0% min
30753	Ammonium benzoate, 99%
A17003	Ammonium bismuth citrate, Bi 48-52%, water ca 2%
10895	Ammonium bis(oxalato)oxotitanate(IV) hydrate, Puratronic®, 99.998% (metals basis)
18134	Ammonium carbamate, 98%
A11199	Ammonium iron(III) citrate, brown
42112	Ammonium iron(III) oxalate hydrate

B21411	Ammonium iron(III) oxalate trihydrate, 98%
36228	Ammonium oxalate monohydrate, ACS, 99.0-101.0%
87657	Antimony(III) acetate, 97%
A10889	Antimony potassium tartrate hydrate, 98%
40619	Antimony potassium tartrate trihydrate, ACS, 99.0-103.0%
14613	Barium 2,4-pentanedionate
44021	Barium 2-ethylhexanoate, 20% w/w in 2-ethylhexanoic acid
44847	Barium 2-ethylhexanoate in 2-ethylhexanoic acid, Ba ca 17.5%
A10316	Barium acetate, 99%
12198	Barium acetate, ACS, 99.0-102.0%
11126	Barium acetate, Puratronic®, 99.999% (metals basis)
13009	Barium oxalate, Puratronic®, 99.999% (metals basis)
A19604	Barium tartrate, 98%
39414	Bis(1,5-cyclooctadiene)iridium(I) tetrafluoroborate
39234	Bis(1,5-cyclooctadiene)nickel(0)
44157	Bis(1,5-cyclooctadiene)nickel(0), 96%
45523	Bis(1,5-cyclooctadiene)rhodium(I) hexafluoroantimonate

41340	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)barium(II), 99.99% (metals basis excluding Sr) Sr< 500ppm
14539	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)barium(II) hydrate, 98+%
41589	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)calcium(II), 99.99% (metals basis)
41359	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)cobalt(II), 99.9% (metals basis)
41279	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)copper(II), 99.9% (metals basis)
39397	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)lead(II)
40470	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)nickel(II), 98%
41608	Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)strontium(II), 99.99% (metals basis)
H26875	Bis(2-methylindenyl)zirconium(IV) dichloride, 98+%
H61964	Bis(3,5,3',5'-dimethoxydibenzylideneacetone)palladium(0), 97%
42410	Bis[3-(triethoxysilyl)propyl]tetrasulfide, S 22.3% (typical)
H66412	Bis(acetonitrile)(1,5-cyclooctadiene)iridium(I) tetrafluoroborate, 97+%
H66191	Bis(acetonitrile)(1,5-cyclooctadiene)rhodium(I) tetrafluoroborate, 97+%
36758	Bis(carboxyethylgermanium) sesquioxide, 99.7%

43177	Bis(cyclopentadienyl)chromium, sublimed, 97+%
16857	Bis(cyclopentadienyl)cobalt
H26962	Bis(cyclopentadienyl)dimethylhafnium(IV), 97+%
H27325	Bis(cyclopentadienyl)dimethylzirconium(IV), 98+%
36105	Bis(cyclopentadienyl)hafnium dichloride
14535	Bis(cyclopentadienyl)manganese, sublimed
39393	Bis(cyclopentadienyl)molybdenum dichloride, 99%
87899	Bis(cyclopentadienyl)nickel, dry
12547	Bis(cyclopentadienyl)titanium dichloride
A11456	Bis(cyclopentadienyl)titanium dichloride, 97%
40386	Bis(cyclopentadienyl)titanium dichloride, 99+%
40521	Bis(cyclopentadienyl)tungsten dichloride, 99%
44266	Bis(cyclopentadienyl)tungsten dihydride, 98%
44360	Bis(cyclopentadienyl)vanadium bromide, 98%
39588	Bis(cyclopentadienyl)vanadium dichloride, 95%
12548	Bis(cyclopentadienyl)zirconium dichloride
39558	Bis(cyclopentadienyl)zirconium dichloride, 99%
44377	Bis(cyclopentadienyl)zirconium dihydride, 98%

L15164	Bis(cyclopentadienyl)zirconium hydridochloride, 95%
31114	Bis(dicarbonylcyclopentadienyliron), 99%
H27335	Bis(ethylcyclopentadienyl)chromium(II), 98+%
H27592	Bis(ethylcyclopentadienyl)hafnium(IV) dichloride, 98+%
38597	Bis(ethylcyclopentadienyl)magnesium, 98+%
H27769	Bis(ethylcyclopentadienyl)manganese(II), 98+%
42672	Bis(isopropylcyclopentadienyl)tungsten dihydride, 98+%
43232	Bis(isopropylcyclopentadienyl)zirconium dichloride, 98%
39540	Bis(mercaptocyclohexane)titanium tetrachloride, 99.9% (metals basis)
44393	Bis(methylcyclopentadienyl)niobium dichloride, 97%
H27241	Bis(methylcyclopentadienyl)zirconium dichloride, 98%
36710	Bismuth 2-ethylhexanoate
41521	Bismuth 2-ethylhexanoate, 99.99+%, 70% w/v in xylene
40398	Bismuth citrate, 94%
17574	Bismuth(III) acetate, 99%
11846	Bismuth(III) acetate, 99.999% (metals basis)
L19687	Bismuth(III) trifluoromethanesulfonate, 99%
B24187	Bismuth subgallate hydrate

40395	Bismuth subsalicylate, 96%
H27576	Bis(n-butylcyclopentadienyl)zirconium(IV) dichloride, 98+%
38574	Bis(n-propyltetramethylcyclopentadienyl)barium
43639	Bis(pentamethylcyclopentadienyl)barium 1,2-dimethoxyethane adduct
H27761	Bis(pentamethylcyclopentadienyl)cobalt(III) hexafluorophosphate, 98%
H26912	Bis(pentamethylcyclopentadienyl)hafnium(IV) dichloride, 98+%
38605	Bis(pentamethylcyclopentadienyl)manganese, 98%
39238	Bis(pentamethylcyclopentadienyl)nickel
39570	Bis(pentamethylcyclopentadienyl)titanium dichloride
39555	Bis(pentamethylcyclopentadienyl)zirconium dichloride, 99%
H27791	Bis(tert-butylcyclopentadienyl)dimethylhafnium(IV), 98+%
H27638	Bis(tert-butylcyclopentadienyl)hafnium(IV) dichloride, 98+%
H27714	Bis(tert-butylcyclopentadienyl)titanium(IV) dichloride, 98+%
H26892	Bis(tert-butylcyclopentadienyl)zirconium(IV) dichloride, 97%

L17046	Bis(tetraethylammonium) bis(2-thioxo-1,3-dithiole-4,5-dithiolato)zincate, 97%
H27396	Bis(tetramethylcyclopentadienyl)chromium(II), 98+%
H27027	Bis(tetramethylcyclopentadienyl)manganese(II), 98+%
H27784	Bis(tetramethylcyclopentadienyl)nickel(II), 98+%
A13242	Bis(tri-n-butyltin) oxide, 97%
39624	Bis(tri-n-butyltin) sulfate, 97%
39242	Bis(triphenylphosphine)dicarbonylnickel, 98%
44845	Bis(tri-tert-butylphosphine)palladium(0)
39310	Bromopentacarbonylmanganese(I), 98%
42097	Bromopentacarbonylrhenium(I), 98%
41968	Cadmium 2,4-pentanedionate, 98%
47396	Cadmium acetate, anhydrous, 99+%
41581	Cadmium acetate dihydrate, 98%
11865	Cadmium acetate dihydrate, 99.999% (metals basis)
41970	Cadmium cyclohexanebutyrate

30526	Calcium 2,4-pentanedionate hydrate, 99%
36657	Calcium 2-ethylhexanoate, Superconductor Grade, in 2-ethylhexanoic acid (3-8% Ca)
12974	Calcium acetate hydrate, Puratronic®, 99.9965% (metals basis)
13446	Calcium acetate monohydrate, ACS, 99.0% min
32430	Calcium oxalate monohydrate, 99%
13007	Calcium oxalate monohydrate, Puratronic®, 99.9985% (metals basis), (excluding 25ppm max alkali earths)
39423	Calcium stearate
44955	Carbonylchlorohydridotris(triphenylphosphine)ruthenium(II)
21116	Cerium(III) 2,4-pentanedionate hydrate
40451	Cerium(III) 2-ethylhexanoate, 49% in 2-ethylhexanoic acid, Ce 12%
44433	Cerium(III) acetate hydrate, 99.995% (metals basis)
15294	Cerium(III) acetate sesquihydrate, 99.9% (REO)
11324	Cerium(III) acetate sesquihydrate, REacton®, 99.99% (REO)
40227	Cerium(III) oxalate hydrate, 99%
13226	Cerium(III) oxalate hydrate, REacton®, 99.989% (REO)
21122	Cerium(III) oxalate hydrate, REacton®, 99.9% (REO)
L20056	Cerium(IV) trifluoromethanesulfonate, 98%
44434	Cesium acetate, 99.998% (metals basis)

12929	Cesium acetate, 99.9% (metals basis)
43095	Cesium acetate, 99% (metals basis)
42096	Chloropentacarbonylrhenium(I), 98%
H55395	Chlorotris(triphenylphosphine)cobalt(I), 97%
12538	Chromium(III) 2,4-pentanedionate, 97%
A16560	Chromium(III) 2-ethylhexanoate, 50% in 2-ethylhexanoic acid
A16051	Chromium(III) benzoylacetonate, 98%
12537	Cobalt(II) 2,4-pentanedionate
B23218	Cobalt(II) acetate, anhydrous, 98+%
23138	Cobalt(II) acetate, anhydrous, Co 32% min.
A18374	Cobalt(II) acetate tetrahydrate, 98%
44345	Cobalt(II) acetate tetrahydrate, 99.999% (metals basis)
44344	Cobalt(II) acetate tetrahydrate, ACS, 98.0-102.0%
12227	Cobalt(II) acetate tetrahydrate, Co 24%
87380	Cobalt(II) benzoate
B24088	Cobalt(II) citrate dihydrate, 98%
B24293	Cobalt(II) gluconate hydrate

12536	Cobalt(III) 2,4-pentanedionate
B22956	Cobalt(II) oxalate, anhydrous, 98%
13012	Cobalt(II) oxalate dihydrate, Puratronic®, 99.995% (metals basis)
87758	Cobalt(II) oxalate dihydrate, Reagent Grade
43352	Cobalt(II) stearate, Co 9-10%
A14920	Copper(II) 2,4-pentanedionate, 98%
12535	Copper(II) 2,4-pentanedionate hydrate
20539	Copper(II) 2-ethylhexanoate
44355	Copper(II) acetate, 99.999% (metals basis)
19417	Copper(II) acetate, anhydrous
B23615	Copper(II) acetate, anhydrous, 98%
35481	Copper(II) acetate monohydrate, 99.9% (metals basis)
14177	Copper(II) acetate monohydrate, ACS, 98.0-102.0%
41779	Copper(II) acrylate, typically 95%
87262	Copper(II) cyclohexanebutyrate, AAS, Cu 15.8%
41489	Copper(II) ethylacetoacetate, 97%
15325	Copper(II) gluconate
41621	Copper(II) methacrylate, tech.

A15365	Copper(II) oxalate hemihydrate, 98%
17538	Copper(I) phenylacetylide
39244	(Cycloheptatriene)molybdenum tricarbonyl, 99%
39402	(Cyclooctatetraene)iron tricarbonyl, 98%
38606	Cyclopentadienylmanganese tricarbonyl
39245	Cyclopentadienylmolybdenum tricarbonyl dimer, 98%
40522	Cyclopentadienylmolybdenum(V) tetrachloride, 95%
39246	Cyclopentadienylniobium(V) tetrachloride
13958	Cyclopentadienylthallium
77134	Cyclopentadienyltitanium trichloride
81123	Cyclopentadienylvanadium tetracarbonyl, 97+%
20617	Cyclopentadienylzirconium trichloride, 98+%
87892	Decaborane, 98%
62108	Decacarbonyldirhenium, 96%
39621	Diallyldibutyltin
24139	Dibenzenechromium, C 69.2%, H 5.8%
37121	Dibenzylmercury
42192	Dibromobis(triphenylphosphine)nickel(II), 99%

39571	Dicarbonylbis(cyclopentadienyl)titanium(II), 98%
23136	Dicarbonylcyclopentadienylcobalt
40449	Dichloroethylenebis(indenyl)zirconium(IV), racemic mixture
H37734	Diethylzinc, nominally 15% w/w in hexane, packaged under Nitrogen in resealable AcroSeal[t bottles
H37108	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable AcroSeal[t bottles
H36141	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal[t bottles
42589	Diisobutylaluminum hydride, 1M solution in hexane
42593	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Argon in resealable ChemSeal□ bottles
H37222	Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable AcroSeal[t bottles
42591	Diisobutylaluminum hydride, 1M solution in toluene, packaged under Argon in resealable ChemSeal□ bottles
42588	Diisobutylaluminum hydride, 25% w/w in hexane
42592	Diisobutylaluminum hydride, 25% w/w in hexane, packaged under Argon in resealable ChemSeal□ bottles
39617	Dimethyldiphenyltin
68119	Dimethyl diselenide, 99%

68116	Dimethyl selenide
B23921	Di-n-butyltin bis(2,4-pentanedionate), 95%
71126	Di-n-butyltin bis(2-ethylhexanoate)
18595	Di-n-butyltin diacetate, 95%
71130	Di-n-butyltin dilaurate, 95%
41738	Di-n-octyldichlorotin, 95%
A14001	Disodium hydrogen citrate sesquihydrate, 99%
42946	Disodium terephthalate, 99+%
13055	Dodecacarbonyltetracobalt, 98% min
13059	Dodecacarbonyltriiron, 96% (dry wt.), stab. with 5-10% methanol
13219	Dysprosium(III) 2,4-pentanedionate hydrate, REacton®, 99.9% (REO)
11314	Dysprosium(III) acetate tetrahydrate, REacton®, 99.99% (REO)
14595	Dysprosium(III) acetate tetrahydrate, REacton®, 99.9% (REO)
14593	Dysprosium(III) oxalate decahydrate, REacton®, 99.9% (REO)
13214	Erbium(III) 2,4-pentanedionate, REacton®, 99.9% (REO)
45897	Erbium(III) acetate tetrahydrate, 99% (REO)
40481	Erbium(III) acetate tetrahydrate, REacton®, 99.9% (REO)
A18420	Erbium(III) oxalate decahydrate, 99.9%

13216	Erbium(III) oxalate decahydrate, REacton®, 99.99% (REO)
44283	(Ethyl benzoate)tricarbonylchromium, 98%
88995	Ethylenediaminetetraacetic acid, iron(III) monosodium salt
L20178	Ethynyltri-n-butyltin, 96%
13209	Europium(III) 2,4-pentanedionate hydrate, 99.9% (REO)
A18069	Europium(III) acetate hydrate, 99.99%
44056	Europium(III) acetate hydrate, REacton®, 99.999% (REO)
42878	Europium(III) acetate hydrate, REacton®, 99.9% (REO)
15288	Europium(III) oxalate hydrate, 99.9% (REO)
44634	Europium(III) trifluoroacetate hydrate, 99.9% (metals basis)
H60380	Gadolinium(III) 2,4-pentanedionate hydrate, 99%
13204	Gadolinium(III) 2,4-pentanedionate hydrate, REacton®, 99.9% (REO)
89158	Gadolinium(III) acetate hydrate, 99.9% (REO)
15308	Gadolinium(III) oxalate hydrate, 99.9% (REO)
42086	Gallium(III) 2,4-pentanedionate, 99.99% (metals basis)
42463	Hafnium(IV) 2,4-pentanedionate, 97%
13061	Hexacarbonylchromium, 99%
13057	Hexacarbonylmolybdenum, 98%

43205	Hexacarbonyltungsten, 97%
A17638	Hexamethylditin, 97%
A12007	Hexa-n-butylditin, 97%
A16637	Hexaphenyldilead, 98%
71143	Hexaphenylditin, 97+%
B24185	Hexarhodium hexadecacarbonyl, 98%
13199	Holmium(III) 2,4-pentanedionate, REacton®, 99.9% (REO)
14591	Holmium(III) acetate hydrate, REacton®, 99.9% (REO)
40307	Holmium(III) trifluoromethanesulfonate hydrate, 98%
33488	Hydrogen hexafluoroantimonate(V), ≈65% aq. soln.
13794	Indium(III) 2,4-pentanedionate, 98%
42230	Indium(III) acetate, 99.99% (metals basis)
31140	Iron(II) acetate, anhydrous, Fe 29.5% min
B23956	Iron(II) fumarate, 94%

B24561	Iron(II) gluconate dihydrate, 94%
88726	Iron(II) gluconate hydrate, 97%
H32278	Iron(III) 1,3-diphenyl-1,3-propanedionate
12534	Iron(III) 2,4-pentanedionate
89307	Iron(III) 2-ethylhexanoate, nominally 50% in mineral spirits, Fe 6%
42001	Iron(III) acrylate, 96%
A10276	Iron(III) citrate hydrate, Fe(III) 16.5-20%; Fe(II) max 5%
31116	Iron(III) oxalate hexahydrate
H60034	Iron(III) trifluoromethanesulfonate, tech. 90%
A13479	Iron(II) oxalate dihydrate, 99%
10718	Iron(II) oxalate dihydrate, Puratronic®, 99.999% (metals basis)
39261	Iron(II) oxalate hydrate, 96%
13194	Lanthanum(III) 2,4-pentanedionate hydrate, 99.9% (REO)
41268	Lanthanum(III) 2-ethylhexanoate, 10% w/v in hexane
15299	Lanthanum(III) acetate sesquihydrate, 99.9% (REO)
11263	Lanthanum(III) acetate sesquihydrate, REacton®, 99.99% (REO)
13196	Lanthanum(III) oxalate decahydrate, REacton®, 99.99% (REO)
43122	Lanthanum(III) oxalate hydrate, 99.9% (REO)

89858	Lead(II) 2,4-pentanedionate
36711	Lead(II) 2-ethylhexanoate
A16763	Lead(II) acetate, basic
36393	Lead(II) acetate, basic, ACS
A11746	Lead(II) acetate trihydrate, 99%
14242	Lead(II) acetate trihydrate, ACS, 99.0-103.0%
10719	Lead(II) acetate trihydrate, Puratronic®, 99.995% (metals basis)
A10701	Lead(II) citrate trihydrate, 99%
22556	Lead(II) cyanurate monohydrate
A17280	Lead(II) cyclohexanebutyrate, 94%
41569	Lead(II) methacrylate, 96%
12999	Lead(II) oxalate, Puratronic®, 99.999% (metals basis)

A12388	Lead(II) tartrate, 99%
A15551	Lead(IV) acetate, 96% (dry wt.), stab. with 5-10% glacial acetic acid
30529	Lithium 2,4-pentanedionate, 99.5%
39330	Lithium 2-ethylhexanoate
13417	Lithium acetate dihydrate, Reagent Grade
12982	Lithium acetate hydrate, Puratronic®, 99.998% (metals basis)
47373	Lithium citrate tribasic tetrahydrate, 98+%
39329	Lithium cyclopentadienide, 97%
39372	Lithium isobutyrate, 98+%
A11818	Lithium L-lactate, 97%
39371	Lithium octanoate, 99%
13426	Lithium oxalate, 99+%
39356	Lithium salicylate, tech.
39335	Lithium stearate
39357	Lithium tartrate monohydrate, 99%
H27840	Lithium tetramethylcyclopentadienide, 97+%
30716	Lithium tri-tert-butoxyaluminum hydride, 94%

12532	Magnesium 2,4-pentanedionate hydrate, typically 98+% (metals basis)
12225	Magnesium acetate tetrahydrate, 98% (metals basis)
36358	Magnesium acetate tetrahydrate, ACS, 98.0-102.0%
10795	Magnesium acetate tetrahydrate, Puratronic®, 99.997% (metals basis)
42002	Magnesium acrylate
41954	Magnesium citrate, dibasic hydrate
41921	Magnesium citrate hydrate, Mg ca 16% (dry wt.)
39369	Magnesium lactate trihydrate, 99%
43976	Magnesium oxalate dihydrate, 98.5+%
12993	Magnesium oxalate dihydrate, Puratronic®, 99.999% (metals basis)
39379	Magnesium salicylate tetrahydrate, tech.
A16244	Magnesium stearate
A18762	Manganese(II) 2,4-pentanedionate
38607	Manganese(II) 2-ethylhexanoate, 40% w/w in mineral spirits, 6% Mn
B23708	Manganese(II) acetate, anhydrous, 98+%
12351	Manganese(II) acetate tetrahydrate, Mn 22% (typical)
10802	Manganese(II) acetate tetrahydrate, Puratronic®, 99.999% (metals basis)
12530	Manganese(III) 2,4-pentanedionate

47050	Manganese(III) acetate dihydrate, 97%
30519	Manganese(III) acetate hydrate, 96%
39308	Manganese(III) acetate meso-tetraphenylporphine
14685	Manganese(II) oxalate dihydrate, Mn 30% min
39309	Manganese(II) phthalocyanine
45606	m-Carborane, 98%
A12478	Mercury(II) acetate, 98+%
12273	Mercury(II) acetate, ACS, 98.0% min
L20186	Methallyltri-n-butyltin, 98%
47125	Methylcyclopentadienylmanganese tricarbonyl, 97%
L18478	Methyltrioxorhenium(VII), 98%
18239	Molybdenum(II) acetate dimer
L13559	n-Butyllithium, 1.6M in hexanes, in resealable AcroSeal[t bottles
47107	n-Butyllithium, 1.6M in hexanes, packaged under Argon in resealable ChemSeal□ bottles
L14775	n-Butyllithium, 2.5M in hexane, packaged in resealable septum cap bottle
39301	Neodymium(III) 1,1,1-trifluoro-2,4-pentanedionate

13184	Neodymium(III) 2,4-pentanedionate, 99.9% (REO)
44587	Neodymium(III) acetate hydrate, 99.9% (REO)
39302	Neodymium(III) hexafluoro-2,4-pentanedionate dihydrate
39456	Nickel hydroxyacetate, Ni 27-29%
18811	Nickel(II) 2,4-pentanedionate, 95%
12223	Nickel(II) acetate hydrate, 99+%
A13026	Nickel(II) acetate tetrahydrate, 98+%
10813	Nickel(II) acetate tetrahydrate, Puratronic®, 99.999% (metals basis)
39634	Nickel(II) citrate hydrate, 98%
B23643	Nickel(II) lactate tetrahydrate, 98%
39479	Nickel(II) octanoate, in mineral spirits (8% Ni)
39454	Nickel(II) oxalate dihydrate
40757	Nickel(II) oxalate hydrate, Puratronic®, 99.9985% (metals basis)

46727	(Norbornadiene)rhodium(I) 2,4-pentanedionate, Rh 34.9%
13060	Octacarbonyldicobalt, stab. with 1-5% hexane
46685	Palladium(II) trimethylacetate
31113	Pentacarbonyliron, 99.5%
40445	Pentakis(diethylamino)niobium(V), 99.9% (metals basis), mixture of complexes
H27010	Pentamethylcyclopentadienylhafnium(IV) trichloride, 98+%
39266	Pentamethylcyclopentadienyliron dicarbonyl dimer
39303	Pentamethylcyclopentadienylmolybdenum dicarbonyl dimer, 99%
39631	Pentamethylcyclopentadienyltantalum tetrachloride
39596	Pentamethylcyclopentadienyltitanium trichloride
39551	Pentamethylcyclopentadienylzirconium trichloride, 99%
37125	Phenylmercury acetate, 98%
L20194	Phenyl selenocyanate, 98%
A12876	Phenylselenol, 90+%
39163	Potassium 2-ethylhexanoate, 99.9% (metals basis), 75% w/w soln.
39440	Potassium 2-ethylhexanoate hydrate, 95%
13449	Potassium acetate, ACS, 99% min
12975	Potassium acetate hydrate, Puratronic®, 99.997% (metals basis)

87265	Potassium cyclohexanebutyrate, AAS, K 18.8%
44415	Potassium dihydrogen citrate hydrate, 99% (dry basis)
23126	Potassium hexacyanocobaltate(III), 90+%
33351	Potassium hydrogen phthalate, primary standard, ACS, 99.95-100.05%
13452	Potassium oxalate monohydrate, ACS, 98.5-101.0%
33241	Potassium sodium L-tartrate tetrahydrate, ACS, 99.0-102.0%
H62803	Potassium trimethylacetate, 95%
14611	Praseodymium(III) acetate hydrate, 99.9% (REO)
20899	p-Toluenesulfonic acid zinc salt hydrate
12890	Rubidium acetate, 99.8% (metals basis)
40665	Samarium(III) 2,4-pentanedionate hydrate, 99.9% (REO)
14604	Samarium(III) acetate hydrate, 99.9% (REO)
14602	Samarium(III) oxalate decahydrate, 99.9% (REO)
13176	Samarium(III) oxalate hydrate, REacton®, 99.97% (REO)
44448	Scandium(III) 2,4-pentanedionate hydrate
A18271	Scandium(III) acetate hydrate, 99.9% (metals basis)
43028	sec-Butyllithium, 1.3M in cyclohexane, packaged under Argon in resealable ChemSeal□ bottles
44635	Silicon(IV) 2-ethylhexanoate, nominally 75% in ethanol

14703	Silicon(IV) acetate
H55131	Silver 2,4-pentanedionate, 98%
B22613	Silver cyclohexanebutyrate, 99% (dry wt.)
L00307	Silver p-toluenesulfonate, 98+%
11005	Sodium acetate, anhydrous, 99.997% (metals basis)
41685	Sodium acetate hydrate, Puratronic®, 99.9985% (metals basis)
A12707	Sodium antimonyl L-tartrate, 98+%
A13292	Sodium bis(2-methoxyethoxy)aluminum hydride, 70% w/w in toluene.
88300	Sodium cyclopentadienide, 2-3M in THF
33379	Sodium diethyldithiocarbamate trihydrate, ACS
33242	Sodium L-(+)-tartrate dihydrate, ACS, 99.0-101.0%
47123	Sodium oxalate, 0.1N Standardized Solution
41759	Sodium oxalate, ACS, 99.5+%
A15656	Sodium pentacyanonitrosylferrate(III) dihydrate, 98+%

39648	Sodium stearate
33386	Sodium succinate hexahydrate
14614	Strontium 2,4-pentanedionate hydrate
40719	Strontium 2-ethylhexanoate, 40% in 2-ethylhexanoic acid (8-12% Sr)
A16149	Strontium acetate hemihydrate, 98%
12203	Strontium acetate hemihydrate, Reagent Grade
12990	Strontium acetate hydrate, Puratronic®, 99.9965% (metals basis)
39735	Strontium cyclohexanebutyrate, AAS
39573	Strontium oxalate, 95%
40032	Terbium(III) 2,4-pentanedionate, 99.9% (REO)
A17388	Terbium(III) acetate hydrate, 99.99%
14600	Terbium(III) acetate hydrate, REacton®, 99.9% (REO)
14597	Terbium(III) oxalate decahydrate, REacton®, 99.9% (REO)
44125	tert-Butyllithium, nominally 1.5M in n-pentane
71158	Tetraallyltin, 96%
45082	Tetraamminepalladium(II) hydrogen carbonate
46319	Tetraammineplatinum(II) hydroxide hydrate, Pt 58% min
43897	Tetraammineplatinum(II) nitrate, Premion®, 99.99% (metals basis), Pt 50% min

18822	Tetracyclohexyltin
H27625	Tetraethylgermanium, 99%
71144	Tetraethyltin, 98%
39609	Tetraisopropyltin, 97+%
41909	Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)hafnium(IV), 99.7% (metals basis)
39459	Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)niobium(IV)
39548	Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)zirconium(IV), 99.9%
42028	Tetrakis(2,2,6,6-tetramethyl-3,5-heptanedionato)zirconium(IV), 99.99% (metals basis)
42760	Tetrakis(dimethylamino)germanium(IV), 99% (metals basis)
42932	Tetrakis(dimethylamino)titanium(IV), 99.9% (metals basis)
32101	Tetrakis(triphenylphosphine)nickel(0)
A16931	Tetramethylgermanium, 98%
71145	Tetramethyltin, 98%
L20205	Tetra-n-butylammonium difluorotriphenylstannate, 97%
34119	Tetra-n-butylgermanium, 99%
57129	Tetra-n-butyllead, 95%
14115	Tetra-n-butyltin, 95%

71137	Tetra-n-propyltin
35842	Tetraphenylgermanium
A12208	Tetraphenyllead, 97%
71117	Tetraphenyltin
A19132	Tetraphenyltin, 97%
78113	Thallium(I) 2,4-pentanedionate, 97+%
11842	Thallium(I) acetate, 99.995% (metals basis)
13164	Thulium(III) 2,4-pentanedionate, REacton®, 99.9% (REO)
14582	Thulium(III) acetate hydrate, REacton®, 99.9% (REO)
14578	Thulium(III) oxalate hydrate, REacton®, 99.9% (REO)
40313	Thulium(III) trifluoromethanesulfonate, 98%
B23612	Tin(II) 2-ethylhexanoate, 95%
18590	Tin(II) 2-ethylhexanoate, tech.
22361	Tin(II) acetate, 95%
H59773	Tin(II) methanesulfonate, 50% w/w aq. soln.

14113	Tin(II) oxalate
A11689	Tin(II) oxalate, 98%
39604	Tin(II) tartrate hydrate, 95%
89921	Tin(IV) acetate
30532	Tin(IV) chloride bis(2,4-pentanedionate), 95%
44602	Titanium(IV) 2-ethylhexanoate, 97%
L20130	trans-1,2-Bis(tri-n-butylstannyl)ethylene, 96%
23151	Tricarbonylnitrosylcobalt
43243	Triethylaluminum, 94%
43176	Triethylgermanium hydride, 97%
H27885	Trimethoxy(pentamethylcyclopentadienyl)titanium(IV), 97+%
43759	Trimethyl(pentamethylcyclopentadienyl)titanium(IV), 97%
L20200	Tri-n-butyl(1-propenyl)tin, cis + trans, 94%
L20214	Tri-n-butyl(3-methyl-2-butenyl)tin, 95%
42688	Tri-n-butylgermanium hydride, 97+%
H55596	Tri-n-butylphenyltin, 97%
A13298	Tri-n-butyltin hydride, 97%
H55192	Tri-n-butyltin trifluoromethanesulfonate, tech. 90%

L20215	Tri-n-butyl(vinyl)tin, 96%
12545	Triphenylbismuth, 98+%
45038	Tripotassium citrate monohydrate, 97%
33222	Tripotassium citrate monohydrate, 99+%
45488	Tris(1-methoxy-2-methyl-2-propoxy)bismuth, 99.99% (metals basis)
41202	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)bismuth(III), 99.9%
43993	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)cobalt(III), 99%
41280	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)cobalt(III), 99.9% (metals basis)
36464	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)dysprosium(III), 98%
19602	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)erbium(III)
87898	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)europium(III)
14486	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)gadolinium(III)
33531	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)holmium(III)
41862	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)iron(III), recrystallized, 99.9% (metals basis)
36465	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)lanthanum(III), 98%
39298	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)neodymium(III)
A18004	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)samarium(III), 99%
42787	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)scandium(III), 95+%

44842	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)terbium(III), 99%
40621	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)titanium(III)
39581	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)ytterbium(III), 99%
14480	Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)yttrium(III), 98+%
B21759	Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)dysprosium(III), 98+%
41783	Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)erbium(III), 97+%
33541	Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)europium(III)
39582	Tris(6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedionato)ytterbium(III), 99% (metals basis)
A14578	Tris(6,6,7,7,8,8,8-heptafluoro-2,2-di(methyl-d3)-3,5-octanedion-1,1,1-d3-ato)praseodymium(III)
H27389	Tris(cyclopentadienyl)erbium(III), 99% (99.9%-Er) (REO)
38585	Tris(cyclopentadienyl)gadolinium(III), 99.9% (REO)
44302	Tris(cyclopentadienyl)holmium(III), 98%
39251	Tris(cyclopentadienyl)lanthanum(III), 99.9% (REO)
39300	Tris(cyclopentadienyl)neodymium(III), 99.5%

39428	Tris(cyclopentadienyl)praseodymium(III), 99.9% (REO)
44411	Tris(cyclopentadienyl)samarium(III), 98%
H27238	Tris(cyclopentadienyl)terbium(III), 99% (99.9%-Tb) (REO)
14478	Tris(cyclopentadienyl)yttrium(III), 99.9% (REO)
44175	Tris(dibenzoylmethane)mono(phenanthroline)europium(III)
42759	Tris(diethylamino)gallium(III), 99.9% (metals basis)
43237	Tris(dimethylamino)aluminum dimer
40443	Tris(dimethylamino)gallium(III) dimer, 99.9% (metals basis)
24127	Tris(ethylenediamine)chromium(III) chloride hemiheptahydrate
A17211	Tris(ethylenediamine)cobalt(III) chloride trihydrate
31123	Tris(ethylenediamine)iron(III) sulfate
38584	Tris(isopropylcyclopentadienyl)erbium(III), 99.9% (REO)
39323	Tris(isopropylcyclopentadienyl)lanthanum(III), 99.9% (REO)
40506	Tris(isopropylcyclopentadienyl)terbium(III), 99.9% (REO)
39576	Tris(methylcyclopentadienyl)yttrium(III), 99.9% (REO)
39577	Tris(n-butylcyclopentadienyl)yttrium(III), 99.9% (REO)
44362	Tris[N,N-bis(trimethylsilyl)amide]cerium(III), 98%
44421	Tris[N,N-bis(trimethylsilyl)amide]erbium(III), 98%

44376	Tris[N,N-bis(trimethylsilyl)amide]europium(III), 98%
44359	Tris[N,N-bis(trimethylsilyl)amide]gadolinium(III), 98%
44381	Tris[N,N-bis(trimethylsilyl)amide]lanthanum(III), 97%
44395	Tris[N,N-bis(trimethylsilyl)amide]neodymium(III), 98%
39578	Tris[N,N-bis(trimethylsilyl)amide]yttrium(III), 98+%
45556	Trisodium citrate, anhydrous, 99%
H27185	Tris(tetramethylcyclopentadienyl)neodymium(III), 99% (99.9%-Nd) (REO)
88481	Tris(trifluoromethylhydroxymethylene-d-camphorato)europium(III)
22940	Vanadium(III) 2,4-pentanedionate, typically 97%
13159	Ytterbium(III) 2,4-pentanedionate, REacton®, 99.9% (REO)
14576	Ytterbium(III) acetate hydrate, REacton®, 99.9% (REO)
13161	Ytterbium(III) oxalate decahydrate, REacton®, 99.99% (REO)
14573	Ytterbium(III) oxalate hydrate, REacton®, 99.9% (REO)
40314	Ytterbium(III) trifluoromethanesulfonate hydrate, 98%
13154	Yttrium(III) 2,4-pentanedionate hydrate, 99.9% (REO)
43356	Yttrium(III) 2-ethylhexanoate, 10% w/v in n-hexane
36661	Yttrium(III) 2-ethylhexanoate, 99.8% (metals basis)
14565	Yttrium(III) acetate tetrahydrate, 99.9% (REO)

11186	Yttrium(III) acetate tetrahydrate, REacton®, 99.99% (REO)
14717	Yttrium(III) hexafluoro-2,4-pentanedionate
14562	Yttrium(III) oxalate nonahydrate, 99.9% (REO)
44597	Yttrium(III) trifluoroacetate hydrate, 99.9% (REO)
12527	Zinc 2,4-pentanedionate monohydrate
39561	Zinc 2-ethylhexanoate, ca 80% in mineral spirits (17-19% Zn)
39560	Zinc 2-ethylhexanoate, Zn ≈ 20%, cont. 1% diethylene glycolmonomethyl ether
35792	Zinc acetate, anhydrous, 99.98% (metals basis)
A12909	Zinc acetate dihydrate, 97+%
11559	Zinc acetate dihydrate, ACS, 98.0-101.0%
41780	Zinc acrylate
18129	Zinc citrate dihydrate, Reagent Grade, Zn 31% min
39734	Zinc cyclohexanebutyrate dihydrate, AAS
18697	Zinc diethyldithiocarbamate, Zn 17-19.5%

	B23022	Zinc gluconate hydrate, 97%
	39552	Zinc meso-tetraphenylporphine
	12985	Zinc oxalate dihydrate, Puratronic®, 99.999% (metals basis)
	33238	Zinc stearate, ZnO 12.5-14%
	14065	Zirconium(IV) 2,4-pentanedionate
	39174	Zirconium(IV) 2-ethylhexanoate, 97%

Zinc reagent

Organozinc compounds are a class of organometallic compounds which contain a carbon-zinc bond. In contrast to C-Mg and C-Li bonds, the C-Zn bond is highly covalent, and hence organozinc reagents are less reactive than the analogous organometallic reagents, such as Grignard and organolithium reagents. Organozinc compounds are usually volatile, pyrophoric and sensitive to oxidation. These compounds are classified on the basis of the number of the carbon atoms directly bound to the zinc atom. The three major classes of organozinc compounds are:

1. ionic zinc compounds, otherwise called organozincates
2. diorgano zinc compounds
3. heteroleptic RZnX compounds in which X is an electronegative substituent, often a halogen atom

H58702	(1,3-Dioxolan-2-ylmethyl)zinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58408	1-Adamantylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58078	1-Methylbutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58543	1-Methylpentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58912	2-(1,3-Dioxan-2-yl)ethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58916	2-(1,3-Dioxolan-2-yl)ethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58036	2,4-Difluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58845	2,6-Difluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58595	2-Adamantylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58678	2-Bromobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58383	2-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58695	2-Cyanoethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H26739	2-(Ethoxycarbonyl)ethylzinc bromide, 0.5M in THF
H58066	2-Fluorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58341	2-Methoxyphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58749	2-Methylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58154	2-Phenylethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58544	2-Pyridylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58497	2-Thiazolylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58397	2-Thienylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58581	3,4,5-Trifluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58167	3,4-Difluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58478	3,4-Difluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58165	3,4-Dimethylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58050	3,5-Dichlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58983	3-Bromobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58709	3-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58962	3-Cyanopropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58105	3-(Ethoxycarbonyl)phenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58023	3-(Ethoxycarbonyl)propylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58161	3-Fluorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58982	3-Methoxyphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58431	3-Methylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58569	3-Phenylpropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58498	3-Pyridylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58355	4-Biphenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58746	4-Bromo-2-fluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58662	4-Bromobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58429	4-Bromophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58532	4-Chlorobenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58266	4-Chlorobutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58740	4-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58897	4-Cyanobutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58211	4-Cyanophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58248	4-(Ethoxycarbonyl)butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58484	4-(Ethoxycarbonyl)phenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58847	4-Fluorobenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58137	4-(Methylthio)phenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58177	4-Pentenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58942	5-Bromo-2-thienylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58480	5-Cyanopentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58304	5-(Ethoxycarbonyl)pentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58089	5-Pyrimidinylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58022	6-Cyanohexylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58012	Allylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58185	alpha-Methylbenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58014	Benzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58247	Cyclobutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58186	(Cyclohexylmethyl)zinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58852	Cyclohexylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58764	Cyclopentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58008	Cyclopropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
39564	Diethylzinc, 96%
89038	Diethylzinc, nominally 15% w/w in hexanes
39563	Dimethylzinc, 96%
87908	Diphenylzinc, 98+%
H58436	Isopentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58536	Isopropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58121	n-Butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58155	n-Decylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58606	n-Dodecylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58384	n-Hexylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58604	n-Nonylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

	H58822	n-Octadecylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58633	n-Pentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58119	n-Propylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58659	Phenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58714	sec-Butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58351	tert-Butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

Organometallic Bromides

Organometallic bromides are synthesized by treating an alkyl or aryl bromide with a metal, such as lithium, magnesium, or zinc. The reactivity of these compounds varies based on the reduction potential of the metal. The reactions involving organometallic bromides are very sensitive - requiring inert atmosphere and dry solvents. The organo magnesium halides are generally referred to as Grignard reagents. The metal-carbon bond in alkyl magnesium bromides has a significant amount of ionic character.

L17045	1,1'-Dibromoferrocene, 96%
H58702	(1,3-Dioxolan-2-ylmethyl)zinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58408	1-Adamantylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51172	1-Dodecylmagnesium bromide, 0.5M in MeTHF
H58078	1-Methylbutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58543	1-Methylpentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51159	1-Naphthylmagnesium bromide, 0.5M in MeTHF
H58912	2-(1,3-Dioxan-2-yl)ethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58916	2-(1,3-Dioxolan-2-yl)ethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54282	2,4,6-Trimethylphenylmagnesium bromide, 1M in 2-MeTHF
H54966	2,4-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H58036	2,4-Difluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54134	2,4-Dimethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54337	2,5-Dimethoxyphenylmagnesium bromide, 0.5M in 2-MeTHF
H54189	2,6-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF

H58845	2,6-Difluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54138	2,6-Dimethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H58595	2-Adamantylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58678	2-Bromobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58695	2-Cyanoethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54388	2-Methyl-1-naphthylmagnesium bromide, 0.25 M in 2-MeTHF
H51160	2-Naphthylmagnesium bromide, 0.25M in MeTHF
H58154	2-Phenylethylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58544	2-Pyridylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58497	2-Thiazolylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58397	2-Thienylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58581	3,4,5-Trifluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54312	3,4-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H58167	3,4-Difluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H54197	3,4-Difluorophenylmagnesium bromide, 0.50 M in 2-MeTHF
H58478	3,4-Difluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54654	3,4-Dimethoxyphenylmagnesium bromide, 0.5M in THF
H54632	3,4-(Methylenedioxy)phenylmagnesium bromide, 0.50 M in 2-MeTHF
H54427	3,5-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H54622	3,5-Difluorophenylmagnesium bromide, 0.50M in 2-MeTHF
H54781	3,5-Dimethyl-4-methoxyphenylmagnesium bromide, 0.5M in 2-MeTHF
H54057	3,5-Dimethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H58983	3-Bromobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54075	3-Chloro-4-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H51161	3-Chlorophenylmagnesium bromide, 1M in MeTHF
H58962	3-Cyanopropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58023	3-(Ethoxycarbonyl)propylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54830	3-Fluoro-4-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H51168	3-Fluorophenylmagnesium bromide, 1M in MeTHF
H54780	3-Methoxyphenylmagnesium bromide, 1.0 M in 2-MeTHF

	H58569	3-Phenylpropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58498	3-Pyridylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H54115	4-(2-Tetrahydropyranyloxy)phenylmagnesium bromide, 0.5M in 2-MeTHF
	H58355	4-Biphenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58746	4-Bromo-2-fluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58429	4-Bromophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58266	4-Chlorobutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51163	4-Chlorophenylmagnesium bromide, 1M in MeTHF
H58897	4-Cyanobutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58211	4-Cyanophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58248	4-(Ethoxycarbonyl)butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54137	4-Ethylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54865	4-Fluoro-2-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54585	4-Fluoro-3-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H51169	4-Fluorophenylmagnesium bromide, 1M in MeTHF
H58780	4-Fluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54201	4-Isobutylphenylmagnesium bromide, 0.5M in 2-MeTHF
H54317	4-Methoxyphenylmagnesium bromide, 1.0 M in 2-MeTHF
H58177	4-Pentenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54411	4-Phenoxyphenylmagnesium bromide, 0.5 M in 2-MeTHF

H54284	4-tert-Butylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H58942	5-Bromo-2-thienylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54501	5-Chloro-2-methoxyphenylmagnesium bromide, 0.50M in 2-MeTHF
H58480	5-Cyanopentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58304	5-(Ethoxycarbonyl)pentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54234	5-Fluoro-2-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H58089	5-Pyrimidinylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58022	6-Cyanohexylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54545	9-Phenanthrylmagnesium bromide, 0.25 M in 2-MeTHF
H58012	Allylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58014	Benzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H26076	Bromoferrocene, 95%
19368	Copper(I) bromide-dimethyl sulfide complex
H58247	Cyclobutylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H58186	(Cyclohexylmethyl)zinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58852	Cyclohexylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58764	Cyclopentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51158	Cyclopropylmagnesium bromide, 0.5M in MeTHF
H58008	Cyclopropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
87800	Dicyclohexyltin dibromide
87291	Ethylmagnesium bromide, 3M in ether
41675	Ethylmagnesium bromide, 3M in ether, packaged under Argon in resealable ChemSeal□ bottles
H58436	Isopentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54840	Isopropylmagnesium bromide, 3M in 2-MeTHF
H58536	Isopropylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
L15481	Magnesium bromide diethyl etherate, 98%
87324	Methylmagnesium bromide, 3M in ether
41252	Methylmagnesium bromide, 3M in ether, packaged under Argon in resealable ChemSeal□ bottles
H58121	n-Butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

	H58155	n-Decylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58606	n-Dodecylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58384	n-Hexylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58604	n-Nonylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58822	n-Octadecylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58633	n-Pentylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

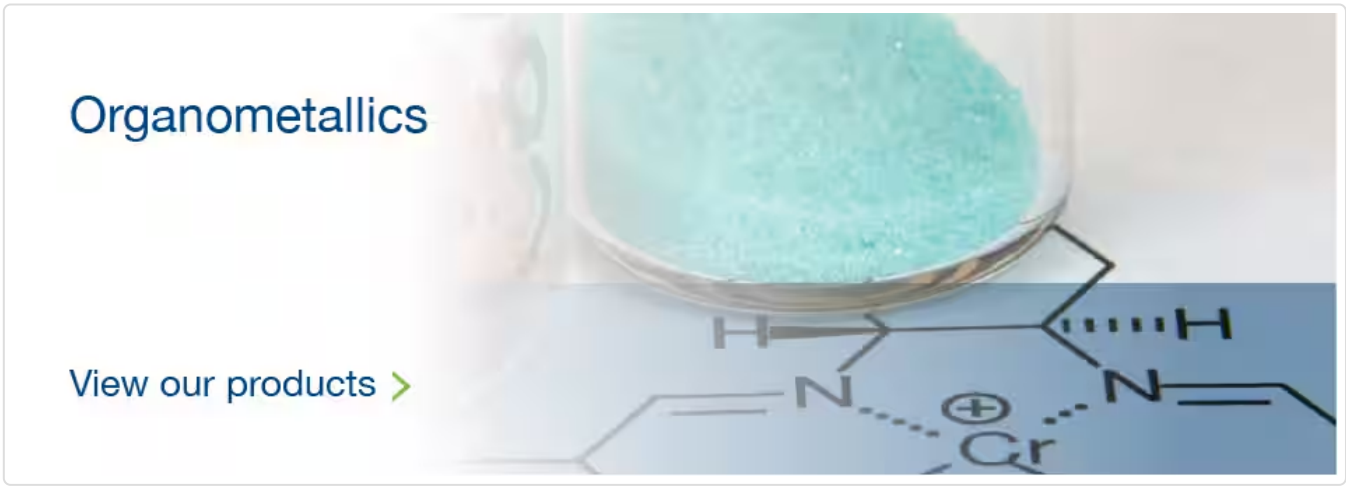
	H58119	n-Propylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H54729	Phenylmagnesium bromide, 3M in 2-MeTHF
	87326	Phenylmagnesium bromide, 3M in ether
	A11906	Phenylselenenyl bromide, 98%
	H58659	Phenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58714	sec-Butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58351	tert-Butylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	71135	Triethyltin bromide
	71153	Trimethyltin bromide
	71185	Tri-n-butyltin bromide, 95%

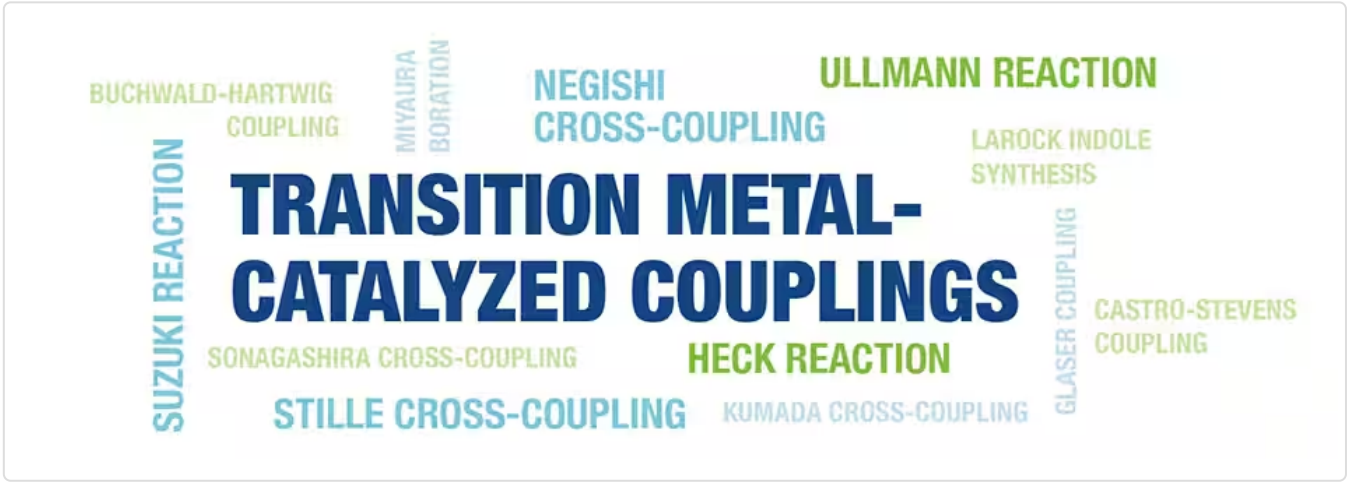
Organometallic Chlorides

Organometallic chlorides have a significant role in organic synthesis. They have excellent selectivity and reactivity. In addition, many of them are environmental friendly and have high functional group tolerance. They are capable of effecting the transformations in an atom economic fashion and have opened up new possibilities in the total synthesis of complex molecules. Organometallic halides incorporate a variety of metals such as, Mg, Cu, Zn, Sn, Pd, Ti, Ag, etc. and have been adopted widely for industrial applications.

Highly functionalized benzylic zinc chlorides can be easily synthesized and stored for months without major loss in activity. Their reaction with plenty of electrophiles yield highly functionalized products. Polymer supported organometallic halides play an important role in solid phase synthesis.

Diorganotin carboxylates, e.g., dibutyltin dilaurate, are used as catalysts for the formation of polyurethanes, for vulcanization of silicones, and trans-esterification. Similarly, n-butyltin trichloride is used in the production of tin dioxide layers on glass bottles by chemical vapor deposition.





30557	1,10-Phenanthroline iron(II) perchlorate
H51173	1-Heptylmagnesium chloride, 1M in MeTHF
H51167	1-Hexylmagnesium chloride, 1M in MeTHF
H51174	1-Octylmagnesium chloride, 1M in MeTHF
H51175	1-Pentylmagnesium chloride, 1M in MeTHF
H54159	2,4-Dichlorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H51171	2-Butenylmagnesium chloride, 0.5M in MeTHF
H54799	2-Chloro-4-fluorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H51512	2-Chloro-5-(tri-n-butylstannyl)pyrimidine, 95%
H51537	2-Chloro-5-(tri-n-butylstannyl)thiazole, 95%
H54643	2-Chloro-6-fluorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54820	2-Chlorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H58383	2-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

H54881	2-Fluorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H54177	2-Methoxybenzylmagnesium chloride, 0.25M in 2-MeTHF
H54133	3,4-Dichlorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H58050	3,5-Dichlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54775	3-Chloro-5-fluorophenylmagnesium bromide, 0.50 M in 2-MeTHF
H54237	3-Chlorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H51161	3-Chlorophenylmagnesium bromide, 1M in MeTHF
H58709	3-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54335	3-Methoxybenzylmagnesium chloride, 0.25M in 2-MeTHF
H54625	4-Chlorobenzylmagnesium chloride, 0.50M in 2-Me-THF
H58532	4-Chlorobenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51163	4-Chlorophenylmagnesium bromide, 1M in MeTHF
H58740	4-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54990	4-Fluorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H58847	4-Fluorobenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54078	4-Methoxybenzylmagnesium chloride, 0.25M in 2-MeTHF

H54501	5-Chloro-2-methoxyphenylmagnesium bromide, 0.50M in 2-MeTHF
H51170	Allylmagnesium chloride, 1M in MeTHF
H58185	alpha-Methylbenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H34138	Benzeneruthenium(II) chloride, dimer, 97%
87299	Benzylmagnesium chloride, 1-2M in THF
H51154	Benzylmagnesium chloride, 1M in MeTHF
13765	Chloropentaamminecobalt(III) chloride
H51165	Cyclohexylmagnesium chloride, 1M in MeTHF
H51166	Cyclopentylmagnesium chloride, 1M in MeTHF
34108	Diethylgermanium dichloride
71155	Diethyltin dichloride
89039	Diisobutylaluminum chloride, 98+%, 25% w/w in hexane
34107	Dimethylgermanium dichloride, 97+%
71142	Dimethyltin dichloride
A17661	Dimethyltin dichloride, 98%
14116	Di-n-butyltin dichloride, 96%
34113	Diphenylgermanium dichloride, 98+%

18829	Iron(III) meso-tetraphenylporphine chloride
H51155	Isopropylmagnesium chloride, 1M in MeTHF
H51156	Isopropylmagnesium chloride - LiCl complex, 1M in MeTHF
L14511	Methacryloyl chloride, may contain up to ca. 15% cyclic dimer, 97%, stab.
41449	Methylgermanium trichloride, 97%
46118	Methylmagnesium chloride, 3M in THF
42101	Methylmagnesium chloride, 3M in THF, packaged under Argon in resealable ChemSeal□ bottles
71156	Methyltin trichloride, 97%
41676	n-Butylmagnesium chloride, 1.5-2.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
71125	n-Butyltin trichloride, 96%
H51162	n-Propylmagnesium chloride, 1M in MeTHF
36540	Pararosaniline hydrochloride, 90%
H51164	tert-Butylmagnesium chloride, 1M in MeTHF
H54824	tert-Pentylmagnesium chloride, 1M in 2-MeTHF
A16043	Tetraphenylarsonium chloride hydrate, 96%
39606	Tin(IV) phthalocyanine dichloride

71201	Tribenzyltin chloride
H55493	Tricyclohexyltin chloride, 97%
34128	Triethylgermanium chloride
39601	Triethyltin chloride
34129	Trimethylgermanium chloride
H54635	(Trimethylsilyl)methylmagnesium chloride, 0.5M in 2-MeTHF
71166	Trimethyltin chloride
A10746	Tri-n-butyltin chloride, 96%
71122	Tri-n-propyltin chloride
41459	Tri-n-propyltin chloride, 95%
H55719	Triphenylantimony(V) dichloride, 99%
L14289	Triphenyltin chloride, 95%

Organometallic Fluoro Compounds

Organometallic fluorides can serve as a source of organofluorine compounds. Organofluorine chemistry impacts many areas of everyday life and technology. The C-F bond is present in several pharmaceuticals, agrichemicals, fluoropolymers, refrigerants, surfactants, anesthetics, oil-repellents, catalysts, and water-repellents. Organofluorine ligands play a key role in organometallic and coordination chemistry. The organofluorine compounds serve as a sigma-donor ligand, as in the case of $[(C_5Me_5)_2Ti(FC_6H_5)]BPh_4$. Organometallic fluorides are also useful in organic transformations, and as shift reagents in NMR spectroscopy.

H54966	2,4-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H58036	2,4-Difluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54189	2,6-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H58845	2,6-Difluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54799	2-Chloro-4-fluorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54643	2-Chloro-6-fluorobenzylmagnesium chloride, 0.25M in 2-MeTHF
H54881	2-Fluorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H58066	2-Fluorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58581	3,4,5-Trifluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54312	3,4-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H58167	3,4-Difluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable

H54197	3,4-Difluorophenylmagnesium bromide, 0.50 M in 2-MeTHF
H58478	3,4-Difluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54427	3,5-Difluorobenzylmagnesium bromide, 0.25M in 2-MeTHF
H54622	3,5-Difluorophenylmagnesium bromide, 0.50M in 2-MeTHF
H54775	3-Chloro-5-fluorophenylmagnesium bromide, 0.50 M in 2-MeTHF
H54830	3-Fluoro-4-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H51168	3-Fluorophenylmagnesium bromide, 1M in MeTHF
H58161	3-Fluorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58746	4-Bromo-2-fluorobenzylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54865	4-Fluoro-2-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54585	4-Fluoro-3-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF
H54990	4-Fluorobenzylmagnesium chloride, 0.50M in 2-MeTHF
H58847	4-Fluorobenzylzinc chloride, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H51169	4-Fluorophenylmagnesium bromide, 1M in MeTHF
H58780	4-Fluorophenylzinc bromide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H54234	5-Fluoro-2-methylphenylmagnesium bromide, 0.50 M in 2-MeTHF

43328	Aluminum hexafluoro-2,4-pentanedionate, 98+%
38568	Aluminum trifluoromethanesulfonate
46381	Barium bis(trifluoromethylsulfonyl)imide
L00420	Barium D-3-trifluoroacetylcamphorate
14503	Barium hexafluoro-2,4-pentanedionate
41201	Bismuth hexafluoro-2,4-pentanedionate, 97+%
46533	Calcium bis(trifluoromethylsulfonyl)imide
40134	Calcium trifluoromethanesulfonate, 99% min
L20251	Cerium(III) trifluoromethanesulfonate, 98%
44633	Cesium trifluoroacetate
38581	Chromium(III) hexafluoro-2,4-pentanedionate
47053	Cobalt bis(trifluoromethylsulfonyl)imide
41594	Cobalt(II) hexafluoro-2,4-pentanedionate hydrate, 97%
47162	Copper bis(trifluoromethylsulfonyl)imide
41916	Copper(I) hexafluoro-2,4-pentanedionate 1,5-cyclooctadiene complex
14505	Copper(II) hexafluoro-2,4-pentanedionate hydrate
B25284	Copper(II) hexafluoro-2,4-pentanedionate hydrate, 98%
41870	Copper(II) hexafluoro-2,4-pentanedionate hydrate, 99.99% (metals basis)
44624	Copper(II) trifluoroacetate hydrate

H26895	Dichloro[1,1'-bis(diphenylphosphino)ferrocene]nickel(II), 99%
L20252	Dysprosium(III) trifluoromethanesulfonate, 98%
40305	Europium(III) trifluoromethanesulfonate, 98%
19275	Hafnium 1,1,1-trifluoro-2,4-pentanedionate
L19688	Hafnium trifluoromethanesulfonate, 98%
39265	Iron(III) 1,1,1-trifluoro 2,4-pentanedionate
H60034	Iron(III) trifluoromethanesulfonate, tech. 90%
47186	Iron tris(trifluoromethylsulfonyl)imide
L19657	Lanthanum trifluoromethanesulfonate, anhydrous, 99%
17553	Lead(II) trifluoroacetate hemihydrate
H27307	Lithium bis(trifluoromethylsulfonyl)imide, 98+%
L16801	Lithium trifluoroacetate, 97%
88938	Lithium trifluoroacetate monohydrate, 97%
39322	Lithium trifluoromethanesulfonate, 97%
46667	Magnesium bis(trifluoromethylsulfonyl)imide
22340	Magnesium trifluoromethanesulfonate
A17591	Magnesium trifluoromethanesulfonate, 97%

47179	Manganese bis(trifluoromethylsulfonyl)imide
47156	Mercury bis(trifluoromethylsulfonyl)imide
88132	Mercury(II) trifluoroacetate, 98+%
39305	Mercury(II) trifluoromethanesulfonate, 98%
39302	Neodymium(III) hexafluoro-2,4-pentanedionate dihydrate
43393	Neodymium(III) trifluoromethanesulfonate, 98%
47102	Nickel bis(trifluoromethylsulfonyl)imide
39449	Nickel(II) 1,1,1-trifluoro-2,4-pentanedionate dihydrate
H60878	Nickel(II) trifluoromethanesulfonate, 96%
H52979	Potassium 1-naphthalenetrifluoroborate, 96%
H63246	Potassium 2,4-bis(trifluoromethyl)phenyltrifluoroborate, 95%
H53083	Potassium 2,4-dichlorophenyltrifluoroborate, 96%
H52686	Potassium 2-benzyloxyphenyltrifluoroborate, 95%
H52492	Potassium 2-carbamoylphenyltrifluoroborate, 96%
H52760	Potassium 2-ethoxycarbonylphenyltrifluoroborate, 96%

H53086	Potassium 2-fluorophenyltrifluoroborate, 96%
H53193	Potassium 2-(hydroxymethyl)phenyltrifluoroborate, 96%
H52582	Potassium 2-methoxyphenyltrifluoroborate, 96%
H53214	Potassium 2-methylphenyltrifluoroborate, 96%
H52649	Potassium 2-(methylsulfonyl)phenyltrifluoroborate, 96%
H52587	Potassium 2-methylthiophenyltrifluoroborate, 96%
H52901	Potassium 2-naphthalenetrifluoroborate, 96%
H52636	Potassium 2-nitrophenyltrifluoroborate, 96%
H51181	Potassium 3-(1-piperidinylcarbonyl)phenyltrifluoroborate, 96%
H51183	Potassium 3-(2-methoxyethylaminocarbonyl)phenyltrifluoroborate, 97%
H53219	Potassium 3,4-dichlorophenyltrifluoroborate, 96%
H51142	Potassium 3-(4-morpholinylcarbonyl)phenyltrifluoroborate
H53113	Potassium 3,5-bis(trifluoromethyl)phenytrifluoroborate, 96%
H53048	Potassium 3,5-difluorophenyltrifluoroborate, 96%
H53274	Potassium 3,5-dinitro-2-methylphenyltrifluoroborate, 96%
H52544	Potassium 3-benzyloxyphenyltrifluoroborate, 96%
H52543	Potassium 3-carboxy-5-nitrophenyltrifluoroborate, 96%
H51885	Potassium 3-carboxyphenyltrifluoroborate, 95%

H53042	Potassium 3-chloro-4-fluorophenyltrifluoroborate, 96%
H53144	Potassium 3-chlorophenyltrifluoroborate, 96%
H53060	Potassium 3-fluoro-4-methoxyphenyltrifluoroborate, 96%
H52450	Potassium 3-fluorophenyltrifluoroborate, 96%
H51182	Potassium 3-(furfurylaminocarbonyl)phenyltrifluoroborate
H52457	Potassium 3-methoxycarbonyl-5-nitrophenyltrifluoroborate, 96%
H53200	Potassium 3-methoxyphenyltrifluoroborate, 98%
H53279	Potassium 3-methylphenyltrifluoroborate, 96%
H53299	Potassium 3-(methylsulfonylamino)phenyltrifluoroborate, 96%
H52638	Potassium 3-methylthiophenyltrifluoroborate, 96%
H51184	Potassium 3-(phenylaminocarbonyl)phenyltrifluoroborate
H51884	Potassium 4-(1-methy-4-piperazinyl)phenyltrifluoroborate, 95%
H51146	Potassium 4-(1-piperidinylcarbonyl)phenyltrifluoroborate, 97%
H51895	Potassium 4-(1-piperidinylmethyl)phenyltrifluoroborate, 95%
H51893	Potassium 4-(1-pyrrolidinylcarbonyl)phenyltrifluoroborate, 95%
H51148	Potassium 4-(2-methoxyethylaminocarbonyl)phenyltrifluoroborate, 97%
H51889	Potassium 4-(4-methyl-1-piperazinylcarbonyl)phenyltrifluoroborate, 95%
H51141	Potassium 4-(4-morpholinylcarbonyl)phenyltrifluoroborate

H51890	Potassium 4-(4-morpholinylmethyl)phenyltrifluoroborate, 95%
H55845	Potassium 4-acetylphenyltrifluoroborate, 97%
H51149	Potassium 4-(anilinomethyl)phenyltrifluoroborate, 97%
H51887	Potassium 4-(benzylaminocarbonyl)phenyltrifluoroborate, 95%
H52626	Potassium 4-benzyloxy-2-methylphenyltrifluoroborate, 98%
H52621	Potassium 4-(benzyloxycarbonylamino)phenyltrifluoroborate, 96%
H51894	Potassium 4-benzyloxyphenyltrifluoroborate, 95%
H53054	Potassium 4-carbamoylphenyltrifluoroborate, 96%
H51888	Potassium 4-carboxyphenyltrifluoroborate, 95%
H53231	Potassium 4-chlorophenyltrifluoroborate, 96%
H51892	Potassium 4-(diethylaminocarbonyl)phenyltrifluoroborate, 95%
H51882	Potassium 4-ethoxycarbonylphenyltrifluoroborate, 95%
H53091	Potassium 4-ethoxyphenyltrifluoroborate, 96%
H52677	Potassium 4-(ethylthio)phenyltrifluoroborate, 96%
H51147	Potassium 4-(furfurylaminocarbonyl)phenyltrifluoroborate
H51883	Potassium 4-(hydroxymethyl)phenyltrifluoroborate, 95%
H53161	Potassium 4-isobutylphenyltrifluoroborate, 96%
H52927	Potassium 4-methoxy-2-methylphenyltrifluoroborate, 96%

H52588	Potassium 4-(methoxycarbonyl)phenyltrifluoroborate, 96%
H53253	Potassium 4-methyl-1-naphthalenetrifluoroborate, 96%
H53092	Potassium 4-n-butoxyphenyltrifluoroborate, 96%
H53208	Potassium 4-nitrophenyltrifluoroborate, 95%
H51896	Potassium 4-(N,O-dimethylhydroxylaminocarbonyl)phenyltrifluoroborate, 95%
H51150	Potassium 4-(phenylaminocarbonyl)phenyltrifluoroborate, 97%
H52885	Potassium 4-tert-butylphenyltrifluoroborate, 96%
H51886	Potassium 4-(tetrahydrofurfurylaminocarbonyl)phenyltrifluoroborate, 95%
H53259	Potassium 4-(trifluoromethyl)phenyltrifluoroborate, 96%
46909	Potassium bis(trifluoromethylsulfonyl)imide
H63839	Potassium (iodomethyl)trifluoroborate, tech. 90%
H51891	Potassium quinoline-8-trifluoroborate, 95%
H55313	Potassium thiophene-3-trifluoroborate, 97%
H53224	Potassium trifluoro(2-fluoro-4-biphenylyl)borate, 96%

20361	Potassium trifluoromethanesulfonate, 98%
39432	Praseodymium(III) hexafluoro-2,4-pentanedionate
40310	Praseodymium(III) trifluoromethanesulfonate, 98%
L20253	Samarium(III) trifluoromethanesulfonate, 98%
46948	Scandium(III) bis(trifluoromethylsulfonyl)imide
40566	Scandium(III) trifluoromethanesulfonate, 98%
46784	Silver bis(trifluoromethylsulfonyl)imide
L16853	Silver heptafluorobutyrate, 97%
H55952	Sodium tetrakis(4-fluorophenyl)borate dihydrate, 98%
20837	Sodium trifluoromethanesulfonate
47099	Strontium bis(trifluoromethylsulfonyl)imide
14705	Strontium hexafluoro-2,4-pentanedionate
40312	Terbium(III) trifluoromethanesulfonate, 98%
87913	Thallium(III) trifluoroacetate, 95%
43643	Thallium(III) trifluoroacetate, tech.
47142	Tin bis(trifluoromethylsulfonyl)imide
39603	Tin(II) trifluoromethanesulfonate, 97%
14717	Yttrium(III) hexafluoro-2,4-pentanedionate

	40315	Yttrium(III) trifluoromethanesulfonate hydrate
	47193	Yttrium tris(trifluoromethylsulfonyl)imide
	46880	Zinc bis(trifluoromethylsulfonyl)imide
	39559	Zinc hexafluoro-2,4-pentanedionate dihydrate
	18686	Zinc trifluoroacetate hydrate
	L15969	Zinc trifluoromethanesulfonate, 98%
	19276	Zirconium(IV) 1,1,1-trifluoro-2,4-pentanedionate, 98+%
	39542	Zirconium(IV) hexafluoro-2,4-pentanedionate

Organometallic Iodides

Organozinc iodides, organocopper iodides, organomagnesium iodides, and organomanganese iodides are some of the more popularly known organometallic iodides. Organometallic iodides participate in many important organic transformations, which include Grignard reactions, Simmons-smith reaction, Barbier reaction, and Fukuyama coupling.

H58383	2-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58066	2-Fluorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58341	2-Methoxyphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58749	2-Methylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58165	3,4-Dimethylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58050	3,5-Dichlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58709	3-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58105	3-(Ethoxycarbonyl)phenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58161	3-Fluorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58982	3-Methoxyphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58431	3-Methylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58429	4-Bromophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
H58740	4-Chlorophenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles

	H58484	4-(Ethoxycarbonyl)phenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58690	4-Methoxyphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58338	4-Methylphenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	H58137	4-(Methylthio)phenylzinc iodide, 0.5M in THF, packaged under Argon in resealable ChemSeal□ bottles
	39399	(Ferrocenylmethyl)trimethylammonium iodide
	A18599	Methyltriphenylarsonium iodide, 98%
	H55911	Tri-n-butyltin iodide, tech. 90%, stab. with copper