



RIEKE METALS, INC.



Catalog 2014-2015





Founders of Rieke Metals, Inc.

Dr. Reuben D. Rieke grew up in Fairfax, Minnesota. He received a Bachelor of Chemistry degree from the University of Minnesota-Minneapolis, doing undergraduate research with Professor Wayland E. Noland. He received a Ph.D. from the University of Wisconsin-Madison in 1966 under the direction of Professor Howard E. Zimmerman. He then did postgraduate work with Professor Saul Winstein at UCLA. He taught at the University of North Carolina at Chapel Hill from 1966 to 1976, at North Dakota State University in Fargo from 1976 to 1977, and at the University of Nebraska-Lincoln from 1977 to 2004.

Loretta Rieke was born and raised in New York City. She earned a Bachelor of Science from Queens College and did graduate studies at the University of Wisconsin-Madison.

High Quality Compounds

The formula: Provide unique research reagents to the world with exceptional speed and attention to detail. Since 1991, Rieke Metals, Inc has been doing just that by supplying active metals, Grignard and Organozinc reagents, fine organic chemicals and organic semi-conducting polymers and monomers. Headquartered in Lincoln, Nebraska, the facility produces and supplies over 10,000 research compounds. We provide quantities from grams to kilograms, ensuring high purity and service every step of the way.



High Quality Service

Rieke Metals is run by scientists, and we understand that research is not simple. That's why RMI strives to make your work easier. With thousands of compounds in stock, orders are processed immediately and shipped the same day. Material safety data sheets and certificates of analysis are electronically provided for immediate information. Technical service is only a phone call away with Rieke Metals. In-house research keeps RMI at the cutting edge and hundreds of new compounds are added annually.



Highly Reactive Rieke Metals[™] and Innovative Organometallic Reagents

Purchasing your reactive metals and organometallic reagents from RMI ensures fast service (as they are all in stock), great quality and innovative functional groups. We offer a wide range of technology based on highly reactive metals including magnesium, zinc, copper, calcium, nickel, indium and manganese from over 40 years of research. The exceptional reactivity of these metals allows the preparation of unique organometallic reagents, many displaying unusual functionality, found exclusively at Rieke Metals.

The highly reactive metals, shipped as a suspension in THF, can be readily dispensed directly into your reaction vessel in known quantities. We can supply quantities from milliliters to hundreds of liters.



Highly Functionalized Fine Organic Compounds

Our ability to prepare functionalized organometallic reagents also provides an entry to thousands of original highly functionalized fine organic molecules. Rieke highly reactive zinc readily undergoes oxidative addition to alkyl, aryl, vinyl and heterocyclic halides under mild conditions to generate the corresponding organozinc reagent. Significantly, this reaction will tolerate any functionality in the halide and this route provides hundreds of functionalized organozinc reagents. Cross coupling these reagents with a wide range of electrophiles and catalysts yields an extensive list of functionalized fine organic compounds. These exclusive molecules are proving to be extremely valuable

building blocks for the pharmaceutical and chemical industry. New compounds are added annually, ensuring a wide variety of building blocks to make your research easier.



Semi-conducting polymers and monomers

Today's Materials for Tomorrow's Electronics™

One of the world leaders in 3-alkylpolythiophenes, Rieke Metals polymer division is unique in the range of compounds offered. Our polymer list has grown dramatically in recent years to include water soluble polythiophenes, 3-thioalkyl polythiophenes and regiorandom polythiophenes. We provide five different types of P3HT for research and commercialization and a special 25%-25%-25%-25% regiorandom P3HT. All the polymers are characterized by high regioregularity and reproducibility. The monomer list has also been expanded and includes 2,5-dibromo-3-alkylthiophenes in addition to many other substituted monomers.



Custom Synthesis and Research

Rieke Metals possesses over 40 years of active metal technology and a wide range of organometallic reagent chemistry. Let us use this knowledge to help solve your synthesis problems. During the past 20 years, RMI has participated in numerous research contracts with research laboratories around the world. Security is priority and costs are exceptionally low compared to standard norms. Contact us for your special research and custom synthesis needs today!





Celebrating 23 years of business

Highlights from Rieke Metals, Inc.

- First company to sell reactive Rieke zinc and Rieke magnesium
- First company to sell hundreds of organozinc halides
- First company to sell specialty Grignard reagents
- First company to offer thousands of highly functionalized fine organic chemicals
- First company to offer P3HT, Poly(3-hexylthiophene-2,5-diyl), as well as many functionalized polythiophene polymers and monomers.

Rieke Metals, Inc. offers a wide range of organometallic technology for the synthesis of complex organic molecules. This technology centers on highly reactive metals which have been developed over the past forty years. The reaction of Rieke[®] metal powders with a variety of organic substrates yields a wide range of novel organometallic reagents, many of which are unattainable utilizing standard methods. Highly reactive metal chemistry for which Rieke Metals, Inc. offers special technology includes magnesium, zinc, copper, calcium, nickel, indium, cadmium, aluminum, and several other metals. Research size quantities are immediately available for all compounds described in this catalog. Pilot plant quantities or bulk manufacturing quantities are available on selected materials.

Services and products provided include:

Highly Reactive Rieke[®] Metals

Novel Organometallic Reagents

Rieke[®] Specialty Polymers and Monomers

**A Wide Range of Complex and Highly Functionalized
Molecules**

Custom Synthesis

Contract Development Research

WARRANTY & PRODUCT PURITY

Rieke Metals, Inc. warrants that the supplied materials are in compliance with the description on the label. In the event that this warranty is not complied with, we will reimburse the buyer in an amount not to exceed the purchase price. The user relies on his / her skill and judgement and assumes all risks associated with the use and handling of these materials. Rieke Metals, Inc. shall not be held liable for any damage or injury resulting from the handling or contact with our materials. We will not be held responsible for changes which may occur when our materials are stored by the buyer, *i.e.* degradation, polymerization, discoloration, etc. Our materials are offered based only on chemical purity and we will not accept returns based on other specifications.

HAZARDS & TOXICOLOGY

The chemicals offered in this catalog are intended for research and development use only. This means they are not to be used as cosmetics, drugs, food additives, agriculture products or household chemicals. MSDS sheets (Material Safety Data Sheets) will accompany your order unless otherwise requested. The user is presumed to be professionally competent and familiar with the known hazards associated with the purchased chemicals and responsible for the safe use of our materials.

ORDERING

Orders may be placed with us by telephone, FAX, e-mail or mail. Terms for orders are net 30 days. For your convenience, we accept Visa, American Express and MasterCard orders.

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I. Rieke® Highly Reactive Metals

No need for a drybox or a solvent still. Simply cannulate Rieke® Metals in THF into a reaction flask under an atmosphere of argon or nitrogen.

Rieke® Zinc

1001	2.5 Grams of Rieke® Zinc in 50mL of THF	\$235
1002	5.0 grams of Rieke® Zinc in 100mL of THF	\$330
1003	10 grams of Rieke® Zinc in 100mL of THF	\$490
1004	50 grams of Rieke® Zinc in 500mL of THF	\$1,400

Please call for bulk prices.

See next page for details on the utility of Rieke® Zinc and lead references.

Rieke® Magnesium

1005	2.5 Grams of Rieke® Magnesium in 100mL of THF	\$320
1006	5.0 Grams of Rieke® Magnesium in 200mL of THF	\$380
1007	25 grams of Rieke® Magnesium in 1000mL of THF	\$1,500

Please call for bulk prices.

References

For a review of Rieke® Magnesium chemistry, please see Reuben D. Rieke and Mark V. Hanson, *Tetrahedron*, **53**, 1925(1997) and leading references.

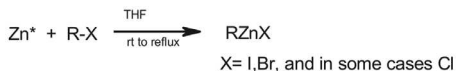
For more details and references see R.D. Rieke, et al, Chapter 4, "Handbook of Grignard Reagents" Edited by Gary S. Silverman and Philip E. Rakita, Marcel Dekker, Inc. 1996

Rieke® Zinc Chloride Solution Anhydrous

1015	Zinc Chloride Solution Anhydrous 0.5 M in THF	100mL \$90
		1L \$300

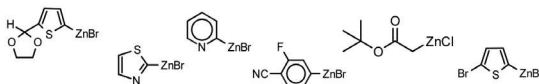
The Utility of Rieke® Highly Reactive Zinc and Organozinc Reagents

Rieke® Highly Reactive Zinc (Zn^*) readily undergoes oxidative addition to alkyl, aryl, and vinyl halides under mild conditions to generate the corresponding organozinc reagents.

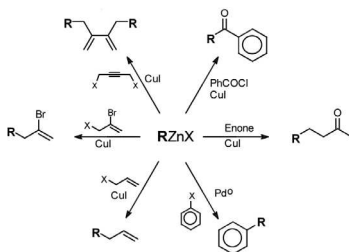


Significantly, unlike the formation of Grignard or organolithium reagents, this reaction will tolerate a variety of functional groups on the organic halide such as chlorides, nitriles, esters, and olefins.

As seen below, highly reactive zinc has become a powerful tool in both the generation of π -deficient heteroaromatic organometallics and in the oxidative addition to difficult aromatic halides to form the organozinc reagent by inserting into the carbon-halogen bond.



Rieke® Organozinc Reagents react with a variety of electrophiles in the presence of $Cu(I)$ or $Pd(0)$. For example, organozinc reagents can be employed for cross coupling with acid chlorides, aryl halides, and substituted or non-substituted allyl halides. They may also undergo Michael Additions to unsaturated ketones or additions to alkynes to give substituted dienes.



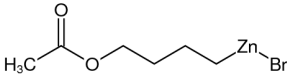
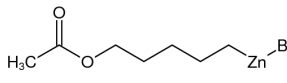
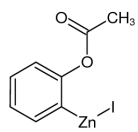
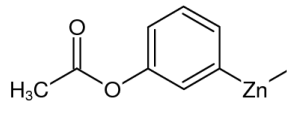
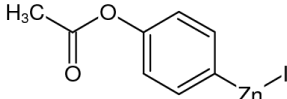

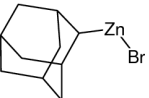
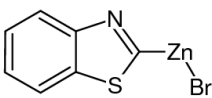
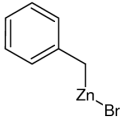
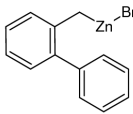
References

The use of CuI is patented by Rieke Metals, Inc. For a procedural look at the utility of Rieke® Highly Reactive Zinc and Organozinc Reagents, see: *J. Org. Chem.*, **56** (1991) 1445.; or for a review see: *Tetrahedron*, **53** (1997) 1925. For experimental details see: Chapter 2, Reuben D. Rieke and Mark V. Hanson in "Practical Approach in Organozinc Reagents" Edited by Paul Knochel and Philip Jones (Oxford University Press). For detailed mechanistic studies and relative rates of reactions see: A. Guijarro, D.M. Rosenberg and R.D. Rieke, *J. of the American Chemical Society* **121**, 4155, (1999)

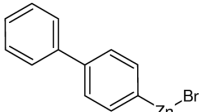
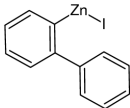
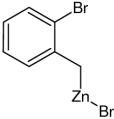
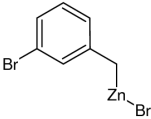
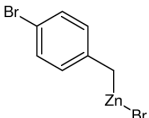
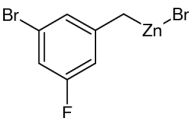
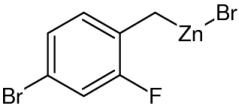
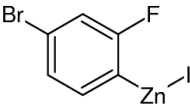
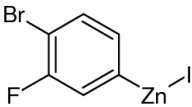
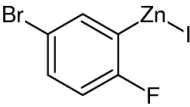
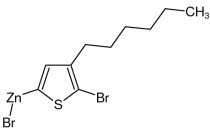
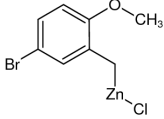
I. Rieke® Organozinc Reagents

(0.5 M in Tetrahydrofuran unless specified otherwise)

For quantities greater than listed, please contact Rieke Metals, Inc. by phone at (402)434-2775, fax at (402)434-2777, or email at sales@riekemetals.com.

4-Acetoxybutylzinc bromide		5-Acetoxypropylzinc bromide	
2191	0.5 M in Tetrahydrofuran	2189	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$370 250mL \$690 500mL \$1,200		25mL \$160 50mL \$240 100mL \$370 250mL \$690 500mL \$1,200	
2-Acetoxyphenylzinc iodide		3-Acetoxyphenylzinc iodide	
2208	0.5 M in Tetrahydrofuran	2209	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$230 100mL \$380 250mL \$710 500mL \$1,100		25mL \$140 50mL \$210 100mL \$360 250mL \$690 500mL \$990	
4-Acetoxyphenylzinc iodide		1-Adamantylzinc bromide	
2210	0.5 M in Tetrahydrofuran	2025	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$230 100mL \$380 250mL \$710 500mL \$1,100		25mL \$160 50mL \$230 100mL \$420 250mL \$890 500mL \$1,300	
2-Adamantylzinc bromide		2-Benzothiazolylzinc bromide	
2061	0.5 M in Tetrahydrofuran	2309	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$230 100mL \$390 250mL \$780 500mL \$1,450		25mL \$200 50mL \$300 100mL \$500 250mL \$800 500mL \$1,400	
Benzylzinc bromide		(2-Biphenyl)methylzinc bromide	
2039	0.5 M in Tetrahydrofuran	2100	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$230 100mL \$370 250mL \$760 500mL \$1,200		25mL \$220 50mL \$340 100mL \$620 250mL \$1,200	

****If you need a Halide converted into an Organozinc Reagent give us a call****

4-Biphenylzinc bromide		2-Biphenylzinc iodide	
2139	0.5 M in Tetrahydrofuran	2202	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$240 100mL \$370 250mL \$690 500mL \$1,200		25mL \$190 50mL \$280 100mL \$440 250mL \$880 500mL \$1,500	
2-Bromobenzylzinc bromide		3-Bromobenzylzinc bromide	
2093	0.5 M in Tetrahydrofuran	2094	0.5 M in Tetrahydrofuran
25mL \$175 50mL \$280 100mL \$440 250mL \$910 500mL \$1,200		25mL \$170 50mL \$260 100mL \$440 250mL \$890 500mL \$1,400	
4-Bromobenzylzinc bromide		3-Bromo-5-fluorobenzylzinc bromide	
2095	0.5 M in Tetrahydrofuran	2281	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$440 250mL \$890 500mL \$1,300		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
4-Bromo-2-fluorobenzylzinc bromide		4-Bromo-2-fluorophenylzinc iodide	
2298	0.5 M in Tetrahydrofuran	2146	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300		25mL \$150 50mL \$230 100mL \$380 250mL \$690 500mL \$1,190	
4-Bromo-3-fluorophenylzinc iodide		5-Bromo-2-fluorophenylzinc iodide	
2121	0.5 M in Tetrahydrofuran	2311	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$300 100mL \$530 250mL \$1,200 500mL \$2,100		25mL \$160 50mL \$240 100mL \$340 250mL \$600 500mL \$1,100	
2-Bromo-3-hexyl-5-thienylzinc bromide		5-Bromo-2-methoxybenzylzinc chloride	
2302		2158	0.5 M in Tetrahydrofuran
Inquire for prices		25mL \$270 50mL \$390 100mL \$690 250mL \$1,200 500mL \$2,000	

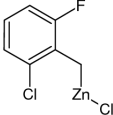
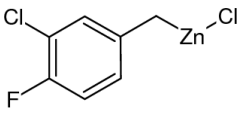
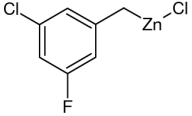
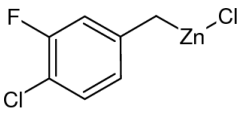
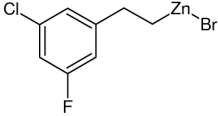
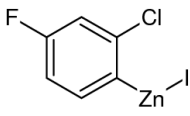
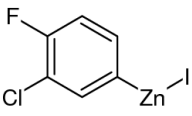
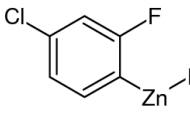
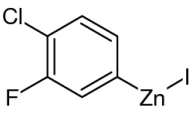
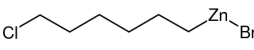
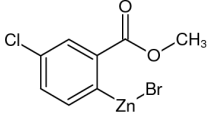
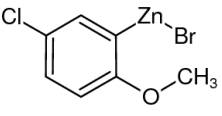
Alternate molarities and solvents are available for custom projects

2-Bromo-4,5-(Methylenedioxy)benzylzinc bromide		4-Bromo-2-methylphenylzinc iodide	
2288	0.5 M in Tetrahydrofuran	2246	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$300 100mL \$490 250mL \$990 500mL \$1,700		25mL \$150 50mL \$220 100mL \$380 250mL \$680 500mL \$1,090	
4-Bromo-3-methylphenylzinc iodide		3-Bromophenethylzinc bromide	
2247	0.5 M in Tetrahydrofuran	2295	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$410 250mL \$790 500mL \$1,300		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	
4-Bromophenethylzinc bromide		3-Bromophenylzinc iodide	
2294	0.5 M in Tetrahydrofuran	2101	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600		25mL \$170 50mL \$260 100mL \$410 250mL \$790 500mL \$1,200	
4-Bromophenylzinc iodide		3-Bromo-2-thienylzinc bromide	
2102	0.5 M in Tetrahydrofuran	2181	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$410 250mL \$790 500mL \$1,200		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,390	
5-Bromo-2-thienylzinc bromide		3-Butenylzinc bromide	
2021	0.5 M in Tetrahydrofuran	2265	0.5M in Tetrahydrofuran
25mL \$180 50mL \$270 100mL \$420 250mL \$890 500mL \$1,300		25mL \$140 50mL \$210 100mL \$340 250mL \$540 500mL \$940	
4-tert-Butoxy-4-oxobutylzinc bromide		2-tert-Butoxy-2-oxoethylzinc chloride	
2241	0.5 M in Tetrahydrofuran	2001	0.5 M in Diethyl Ether
25mL \$225 50mL \$350 100mL \$590 250mL \$1,090		25mL \$170 50mL \$260 100mL \$420 250mL \$820 500mL \$1,390	

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6- <i>tert</i> -Butoxy-6-oxohexylzinc bromide		2- <i>tert</i> -Butoxy-2-oxo-1-methylethylzinc bromide	
2243	0.5 M in Tetrahydrofuran	2312	0.5 M in Diethyl Ether
25mL \$250 50mL \$390 100mL \$690 250mL \$1,100		25mL \$170 50mL \$260 100mL \$420 250mL \$820 500mL \$1,390	
5- <i>tert</i> -Butoxy-5-oxopentylzinc bromide		3- <i>tert</i> -Butoxy-3-oxopropylzinc bromide	
2242	0.5 M in Tetrahydrofuran	2240	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$690 250mL \$1,100		25mL \$250 50mL \$390 100mL \$690 250mL \$1,100	
4- <i>tert</i> -Butylbenzylzinc bromide		<i>n</i> -Butylzinc bromide	
2199	0.5 M in Tetrahydrofuran	2034	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$370 250mL \$690 500mL \$1,200		25mL \$160 50mL \$240 100mL \$390 250mL \$740 500mL \$1,080	
<i>tert</i> -butylzinc bromide		2-Butylzinc bromide	
2026	0.5 M in Tetrahydrofuran	2027	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$740 500mL \$1,080		25mL \$150 50mL \$210 100mL \$350 250mL \$690 500mL \$990	
2-Chlorobenzylzinc chloride		3-Chlorobenzylzinc chloride	
2090	0.5 M in Tetrahydrofuran	2091	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$420 250mL \$820 500mL \$1,200		25mL \$170 50mL \$260 100mL \$420 250mL \$820 500mL \$1,200	
4-Chlorobenzylzinc chloride		4-Chlorobutylzinc bromide	
2092	0.5 M in Tetrahydrofuran	2005	0.5 M in Tetrahydrofuran
25mL \$210 50mL \$325 100mL \$490 250mL \$820 500mL \$1,200		25mL \$180 50mL \$270 100mL \$440 250mL \$820 500mL \$1,200	

Alternate molarities and solvents are available for custom projects

2-Chloro-6-fluorobenzylzinc chloride		3-Chloro-4-Fluorobenzylzinc chloride	
2148	0.5 M in Tetrahydrofuran	2278	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,100		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Chloro-5-Fluorobenzylzinc chloride		4-Chloro-3-Fluorobenzylzinc chloride	
2279	0.5 M in Tetrahydrofuran	2280	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Chloro-5-fluorophenethylzinc bromide		2-Chloro-4-fluorophenylzinc iodide	
2251	0.5 M in Tetrahydrofuran	2173	0.5 M in Tetrahydrofuran
25mL \$330 50mL \$500 100mL \$900 250mL \$1,800 500mL \$3,100		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300	
3-Chloro-4-fluorophenylzinc iodide		4-Chloro-2-fluorophenylzinc iodide	
2046	0.5 M in Tetrahydrofuran	2174	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$410 250mL \$790 500mL \$1,390		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300	
4-Chloro-3-fluorophenylzinc iodide		6-Chlorohexylzinc bromide	
2047	0.5 M in Tetrahydrofuran	2003	0.5 M in Tetrahydrofuran
25mL \$180 50mL \$270 100mL \$440 250mL \$820 500mL \$1,500		25mL \$160 50mL \$240 100mL \$380 250mL \$740 500mL \$1,200	
4-Chloro-2-Methoxycarbonylphenylzinc bromide		5-Chloro-2-methoxyphenylzinc bromide	
2267	0.5M in Tetrahydrofuran	2296	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$210 100mL \$340 250mL \$540 500mL \$940		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300	

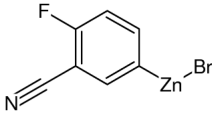
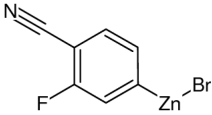
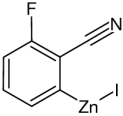
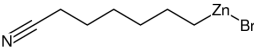
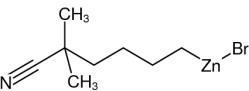
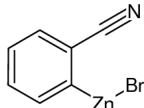
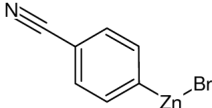
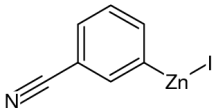
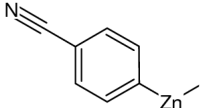
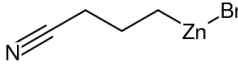
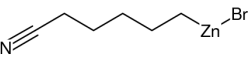
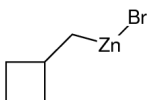
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5-Chloro-2-methoxyphenylzinc iodide		4-Chloro-2-methylbenzylzinc chloride	
2184	0.5 M in Tetrahydrofuran	2274	0.5 M in Tetrahydrofuran
25mL \$210 50mL \$330 100mL \$490 250mL \$840 500mL \$1,350		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
4-Chloro-3-methylbenzylzinc chloride		2-Chloro-6-methylphenylzinc iodide	
2275	0.5 M in Tetrahydrofuran	2185	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$250 50mL \$390 100mL \$540 250mL \$820 500mL \$1,400	
3-Chloro-4-methylphenylzinc iodide		5-Chloropentylzinc bromide	
2122	0.5 M in Tetrahydrofuran	2004	0.5 M in Tetrahydrofuran
25mL \$175 50mL \$270 100mL \$460 250mL \$860 500mL \$1,300		25mL \$160 50mL \$230 100mL \$370 250mL \$710 500mL \$1,200	
3-Chlorophenethylzinc bromide		4-Chlorophenethylzinc bromide	
2226	0.5 M in Tetrahydrofuran	2225	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	
3-(4-Chlorophenyl)-2-propenylzinc iodide		2-Chlorophenylzinc iodide	
2332	0.5 M in Tetrahydrofuran	2135	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25mL \$250 50mL \$390 100mL \$690 250mL \$1,300	
3-Chlorophenylzinc iodide		4-Chlorophenylzinc iodide	
2043	0.5 M in Tetrahydrofuran	2042	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$740 500mL \$1,200		25mL \$160 50mL \$240 100mL \$390 250mL \$740 500mL \$1,200	

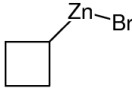
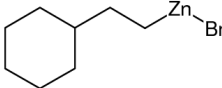
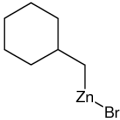
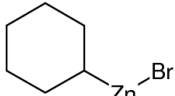
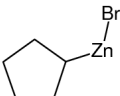

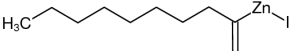
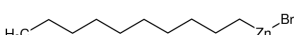
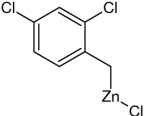
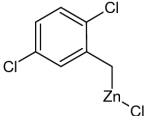
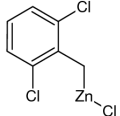
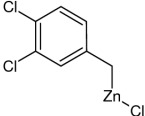
Alternate molarities and solvents are available for custom projects

(2-Chloro-5-pyridyl)methylzinc chloride		2-Chloro-3-pyridylzinc bromide	
2179	0.5 M in Tetrahydrofuran	2303	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$590 250mL \$940 500mL \$1,400		25mL \$170 50mL \$260 100mL \$400 250mL \$900 500mL \$1,200	
2-Chloro-4-pyridylzinc bromide		2-Chloro-5-pyridylzinc bromide	
2304	0.5 M in Tetrahydrofuran	2291	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$330 100mL \$560 250mL \$990 500mL \$1,400		25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,400	
6-Chloro-2-pyridylzinc bromide		5-Chloro-2-thienylzinc bromide	
2305	0.5 M in Tetrahydrofuran	2022	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$330 100mL \$560 250mL \$990 500mL \$1,400		25mL \$160 50mL \$240 100mL \$390 250mL \$740 500mL \$1,200	
4-Coumarinylzinc bromide		2-Cyanobenzylzinc bromide	
2310	0.5 M in Tetrahydrofuran	2057	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$250 100mL \$450 250mL \$750 500mL \$1,200		25mL \$170 50mL \$280 100mL \$460 250mL \$900 500mL \$1,500	
3-Cyanobenzylzinc bromide		4-Cyanobenzylzinc bromide	
2058	0.5 M in Tetrahydrofuran	2059	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$280 100mL \$460 250mL \$900 500mL \$1,500		25mL \$175 50mL \$290 100mL \$500 250mL \$990 500mL \$1,500	
4-Cyanobutylzinc bromide		2-Cyanoethylzinc bromide	
2008	0.5 M in Tetrahydrofuran	2006	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$840 500mL \$1,500		25mL \$160 50mL \$260 100mL \$390 250mL \$900 500mL \$1,400	

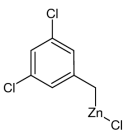
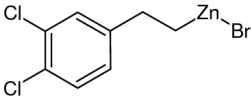
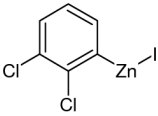
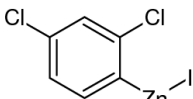
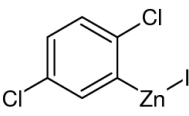
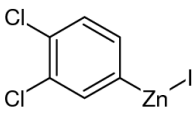
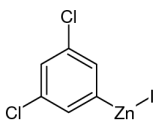
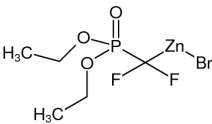
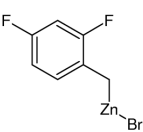
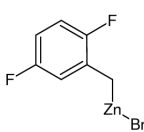
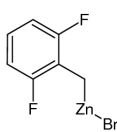
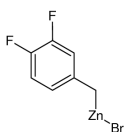
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3-Cyano-4-fluorophenylzinc bromide		4-Cyano-3-fluorophenylzinc bromide	
2178	0.5 M in Tetrahydrofuran	2177	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$680 500mL \$1,100		25mL \$160 50mL \$240 100mL \$410 250mL \$680 500mL \$1,100	
2-Cyano-3-fluorophenylzinc iodide		6-Cyanoethylzinc bromide	
2053	0.5 M in Tetrahydrofuran	2009	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$250 100mL \$480 250mL \$990 500mL \$1,600		25mL \$160 50mL \$240 100mL \$430 250mL \$900 500mL \$1,300	
5-Cyano-5-methylhexylzinc bromide		2-Cyanophenylzinc bromide	
2080	0.5 M in Tetrahydrofuran	2017	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$420 250mL \$900		25mL \$220 50mL \$330 100mL \$560 250mL \$990 500mL \$1,400	
4-Cyanophenylzinc bromide		3-Cyanophenylzinc iodide	
2212	0.5 M in Tetrahydrofuran	2018	0.5 M in Tetrahydrofuran
25mL \$180 50mL \$280 100mL \$440 250mL \$900 500mL \$1,400		25mL \$200 50mL \$310 100mL \$560 250mL \$1,100 500mL \$1,700	
4-Cyanophenylzinc iodide		3-Cyanopropylzinc bromide	
2019	0.5 M in Tetrahydrofuran	2007	0.5 M in Tetrahydrofuran
25mL \$180 50mL \$280 100mL \$460 250mL \$990 500mL \$1,800		25mL \$170 50mL \$260 100mL \$400 250mL \$900 500mL \$1,200	
5-Cyanovalerylzinc bromide		(Cyclobutylmethyl)zinc bromide	
2257	0.5 M in Tetrahydrofuran	2335	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$590 250mL \$1,200 500mL \$1,800		25ml \$300 50ml \$450 100ml \$800	

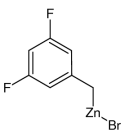
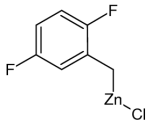
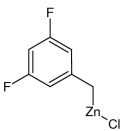
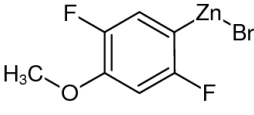
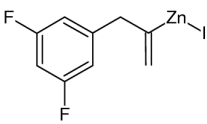
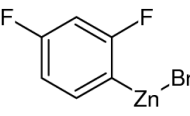
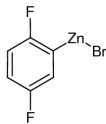
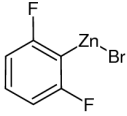
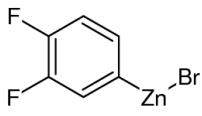
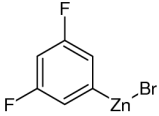
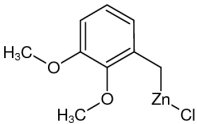
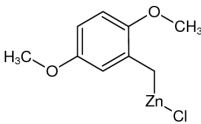
Alternate molarities and solvents are available for custom projects

Cyclobutylzinc bromide		2-Cyclohexylethylzinc bromide	
2261	0.5M in Tetrahydrofuran	2250	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$580 250mL \$1,100 500mL \$2,100		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300	
(Cyclohexyl)methylzinc bromide		Cyclohexylzinc bromide	
2079	0.5 M in Tetrahydrofuran	2030	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$230 100mL \$410 250mL \$860 500mL \$1,200		25mL \$170 50mL \$260 100mL \$400 250mL \$820 500mL \$990	
Cyclopentylzinc bromide		Cyclopropylzinc bromide	
2028	0.5 M in Tetrahydrofuran	2259	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$230 100mL \$380 250mL \$820 500mL \$990		25mL \$170 50mL \$260 100mL \$410 250mL \$710 500mL \$990	
2-Decenylzinc iodide		n-Decylzinc bromide	
2316	0.5 M in Tetrahydrofuran	2236	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25mL \$160 50mL \$240 100mL \$410 250mL \$820 500mL \$1,200	
2,4-Dichlorobenzylzinc chloride		2,5-Dichlorobenzylzinc chloride	
2150	0.5 M in Tetrahydrofuran	2152	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$720 500mL \$1,100		25mL \$200 50mL \$310 100mL \$540 250mL \$990 500mL \$1,200	
2,6-Dichlorobenzylzinc chloride		3,4-Dichlorobenzylzinc chloride	
2149	0.5 M in Tetrahydrofuran	2151	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$420 250mL \$680 500mL \$1,100		25mL \$160 50mL \$240 100mL \$420 250mL \$690 500mL \$1,100	

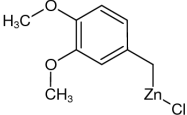
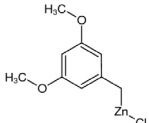
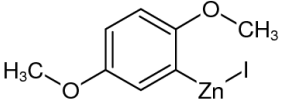
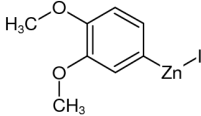
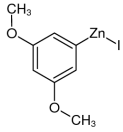
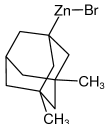
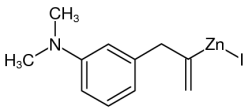
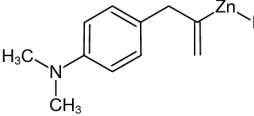
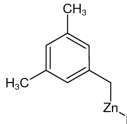
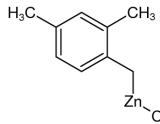
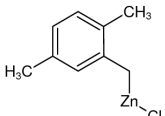
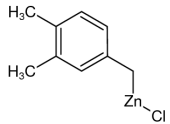
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3,5-Dichlorobenzylzinc chloride		3,4-Dichlorophenethylzinc bromide	
2238	0.5 M in Tetrahydrofuran	2313	0.5 M in Tetrahydrofuran
25mL \$290 50mL \$450 100mL \$840 250mL \$1,500		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	
2,3-Dichlorophenylzinc iodide		2,4-Dichlorophenylzinc iodide	
2186	0.5 M in Tetrahydrofuran	2187	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$680 500mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$640 500mL \$990	
2,5-Dichlorophenylzinc iodide		3,4-Dichlorophenylzinc iodide	
2188	0.5 M in Tetrahydrofuran	2048	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$680 500mL \$1,100		25mL \$170 50mL \$260 100mL \$440 250mL \$850 500mL \$1,200	
3,5-Dichlorophenylzinc iodide		(Diethoxyphosphoryl)difluoromethylzinc bromide	
2049	0.5 M in Tetrahydrofuran	2252	0.5M in Tetrahydrofuran
50mL \$170 50mL \$260 100mL \$440 250mL \$850 500mL \$1,300		25mL \$160 50mL \$240 100mL \$390 500mL \$780	
2,4-Difluorobenzylzinc bromide		2,5-Difluorobenzylzinc bromide	
2084	0.5 M in Tetrahydrofuran	2083	0.5 M in Tetrahydrofuran
25mL \$290 50mL \$450 100mL \$720 250mL \$1,790		25mL \$270 50mL \$410 100mL \$750 250mL \$1,450	
2,6-Difluorobenzylzinc bromide		3,4-Difluorobenzylzinc bromide	
2082	0.5 M in Tetrahydrofuran	2081	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$260 100mL \$420 250mL \$900 500mL \$1,300		25mL \$270 50mL \$410 100mL \$610 250mL \$1,490	

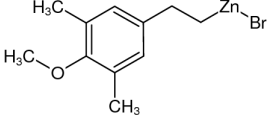
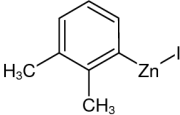
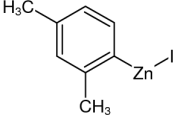
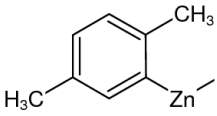
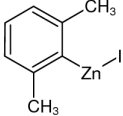
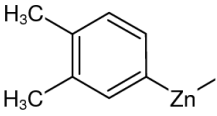
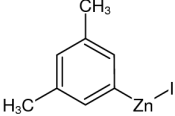
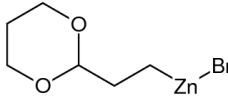
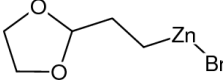
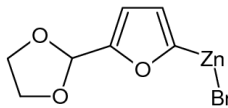
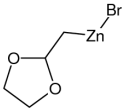
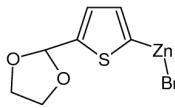
Alternate molarities and solvents are available for custom projects

3,5-Difluorobenzylzinc bromide		2,5-Difluorobenzylzinc chloride	
2060	0.5 M in Tetrahydrofuran	2213	0.5 M in Tetrahydrofuran
25mL \$260 50mL \$390 100mL \$640 250mL \$1,440 500mL \$2,300		25mL \$270 50mL \$410 100mL \$650 250mL \$1,450	
3,5-Difluorobenzylzinc chloride		2,5-Difluoro-4-methoxyphenylzinc bromide	
2214	0.5 M in Tetrahydrofuran	2297	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$640 250mL \$1,440 500mL \$2,300		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300	
3-(3,5-Difluorophenyl)-2-propenylzinc iodide		2,4-Difluorophenylzinc bromide	
2331	0.5 M in Tetrahydrofuran	2165	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25mL \$200 50mL \$310 100mL \$460 250mL \$1,100 500mL \$1,700	
2,5-Difluorophenylzinc bromide		2,6-Difluorophenylzinc bromide	
2268	0.5M in Tetrahydrofuran	2264	0.5M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$460 250mL \$890 500mL \$1,400		25mL \$140 50mL \$210 100mL \$340 250mL \$540 500mL \$940	
3,4-Difluorophenylzinc bromide		3,5-Difluorophenylzinc bromide	
2167	0.5 M in Tetrahydrofuran	2136	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$440 250mL \$740 500mL \$1,250		25mL \$170 50mL \$260 100mL \$440 250mL \$740 500mL \$1,250	
2,3-Dimethoxybenzylzinc chloride		2,5-Dimethoxybenzylzinc chloride	
2154	0.5 M in Tetrahydrofuran	2157	0.5 M in Tetrahydrofuran
25mL \$240 50mL \$370 100mL \$690 250mL \$1,100 500mL \$1,800		25mL \$240 50mL \$370 100mL \$690 250mL \$1,100 500mL \$1,800	

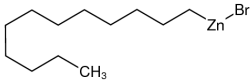
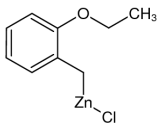
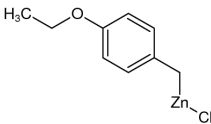
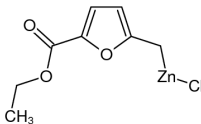
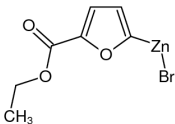
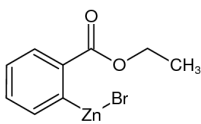
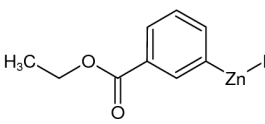
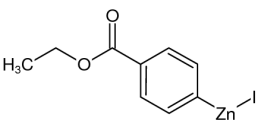
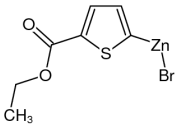
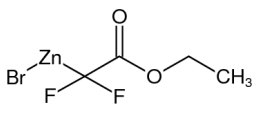
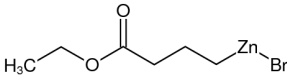
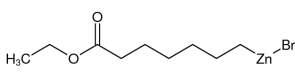
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3,4-Dimethoxybenzylzinc chloride		3,5-Dimethoxybenzylzinc chloride	
2156	0.5 M in Tetrahydrofuran	2159	0.5 M in Tetrahydrofuran
25mL \$210 50mL \$330 100mL \$490 250mL \$890 500mL \$1,280		25mL \$270 50mL \$390 100mL \$690 250mL \$1,200	
2,5-Dimethoxyphenylzinc iodide		3,4-Dimethoxyphenylzinc iodide	
2205	0.5 M in Tetrahydrofuran	2206	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$610 250mL \$1,150		25mL \$250 50mL \$390 100mL \$590 250mL \$1,200	
3,5-Dimethoxyphenylzinc iodide		3,5-Dimethyl-1-adamantylzinc bromide	
2249	0.5 M in Tetrahydrofuran	2062	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$590 250mL \$1,200 500mL \$2,200		25mL \$200 50mL \$300 100mL \$490 250mL \$1,100	
3-[(3-N,N-Dimethylamino)phenyl]-2-propenylzinc iodide		3-[(4-N,N-Dimethylamino)phenyl]-2-propenylzinc iodide	
2333	0.5 M in Tetrahydrofuran	2334	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
3,5-Dimethylbenzylzinc bromide		2,4-Dimethylbenzylzinc chloride	
2163	0.5 M in Tetrahydrofuran	2207	0.5 M in Tetrahydrofuran
25mL \$230 50mL \$360 100mL \$640 250mL \$1,100		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,400	
2,5-Dimethylbenzylzinc chloride		3,4-Dimethylbenzylzinc chloride	
2162	0.5 M in Tetrahydrofuran	2239	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$230 100mL \$390 250mL \$790 500mL \$1,200		25mL \$220 50mL \$340 100mL \$590 250mL \$1,100	

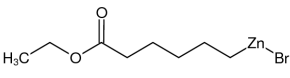
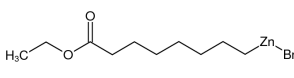
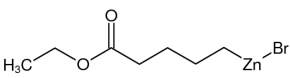
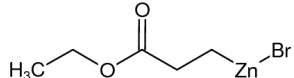
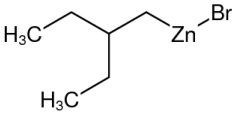
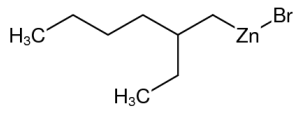
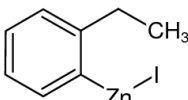
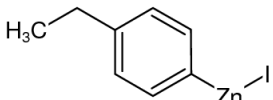
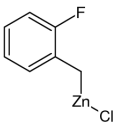
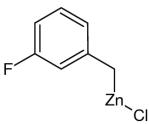
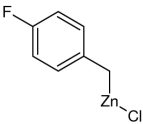
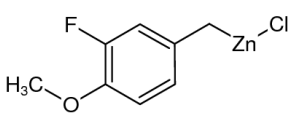
Alternate molarities and solvents are available for custom projects

3,5-Dimethyl-4-methoxyphenethylzinc bromide		2,3-Dimethylphenylzinc iodide	
2266	0.5M in Tetrahydrofuran	2108	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$170 50mL \$260 100mL \$440 250mL \$1,100 500mL \$1,400	
2,4-Dimethylphenylzinc iodide		2,5-Dimethylphenylzinc iodide	
2109	0.5 M in Tetrahydrofuran	2110	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$440 250mL \$990 500mL \$1,300		25mL \$170 50mL \$260 100mL \$440 250mL \$990 500mL \$1,300	
2,6-Dimethylphenylzinc iodide		3,4-Dimethylphenylzinc iodide	
2111	0.5 M in Tetrahydrofuran	2112	0.5 M in Tetrahydrofuran
25mL \$240 50mL \$370 100mL \$650 250mL \$1,450		25mL \$170 50mL \$260 100mL \$420 250mL \$890 500mL \$1,200	
3,5-Dimethylphenylzinc iodide		(1,3-Dioxan-2-ylethyl)zinc bromide	
2050	0.5 M in Tetrahydrofuran	2143	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$870 500mL \$1,200		25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,300	
(1,3-Dioxolan-2-ylethyl)zinc bromide		5-(1,3-Dioxolan-2-yl)-2-furylzinc bromide	
2144	0.5 M in Tetrahydrofuran	2307	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,300		25mL \$260 50mL \$390 100mL \$590 250mL \$1,200	
(1,3-Dioxolan-2-ylmethyl)zinc bromide		5-(1,3-Dioxolan-2-yl)-2-thienylzinc bromide	
2260	0.5 M in Tetrahydrofuran	2145	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,200		25mL \$210 50mL \$330 100mL \$580 250mL \$990 500mL \$1,700	

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<i>n</i>-Dodecylzinc bromide		2-Ethoxybenzylzinc chloride	
2237	0.5 M in Tetrahydrofuran	2133	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$420 250mL \$820 500mL \$1,200		25mL \$220 50mL \$340 100mL \$590 250mL \$1,200	
4-Ethoxybenzylzinc chloride		5-Ethoxycarbonylfurfurylzinc chloride	
2134	0.5 M in Tetrahydrofuran	2170	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$590 250mL \$1,200		25mL \$200 50mL \$310 100mL \$540 250mL \$980 500mL \$1,200	
5-Ethoxycarbonyl-2-furylzinc bromide		2-Ethoxycarbonylphenylzinc bromide	
2198	0.5 M in Tetrahydrofuran	2014	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$540 250mL \$990 500mL \$1,200		25mL \$170 50mL \$260 100mL \$460 250mL \$890 500mL \$1,200	
3-Ethoxycarbonylphenylzinc iodide		4-Ethoxycarbonylphenylzinc iodide	
2015	0.5 M in Tetrahydrofuran	2016	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$460 250mL \$890 500mL \$1,200		25mL \$170 50mL \$260 100mL \$460 250mL \$890 500mL \$1,200	
5-Ethoxycarbonyl-2-thienylzinc bromide		2-Ethoxy-1,1-difluoroethoxyzinc bromide	
2197	0.5 M in Tetrahydrofuran	2253	0.5M in Tetrahydrofuran
25mL \$240 50mL \$370 100mL \$690 250mL \$1,100		25mL \$190 50mL \$290 100mL \$440 250mL \$760 500mL \$1,200	
4-Ethoxy-4-oxobutylzinc bromide		7-Ethoxy-7-oxoheptylzinc bromide	
2011	0.5 M in Tetrahydrofuran	2255	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$220 100mL \$390 250mL \$690 500mL \$990		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300	

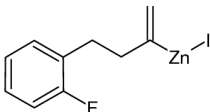
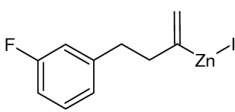
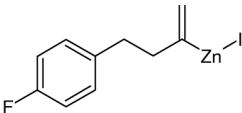
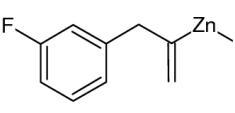
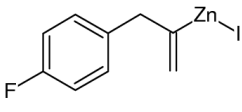
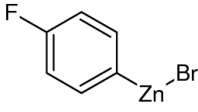
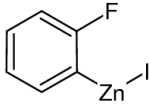
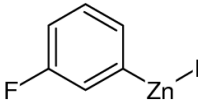
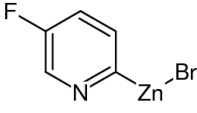
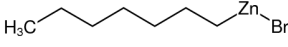
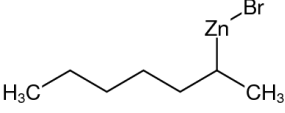
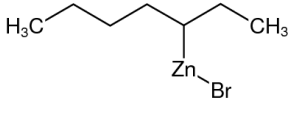
Alternate molarities and solvents are available for custom projects

6-Ethoxy-6-oxohexylzinc bromide		8-Ethoxy-8-oxooctylzinc bromide	
2013	0.5 M in Tetrahydrofuran	2256	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$890 500mL \$1,200		25mL \$200 50mL \$300 100mL \$490 250mL \$890 500mL \$1,300	
5-Ethoxy-5-oxopentylzinc bromide		3-Ethoxy-3-oxopropylzinc bromide	
2012	0.5 M in Tetrahydrofuran	2010	0.5 M in Tetrahydrofuran
25mL \$180 50mL \$270 100mL \$440 250mL \$890 500mL \$1,300		25mL \$160 50mL \$230 100mL \$420 250mL \$690 500mL \$1,100	
2-Ethylbutylzinc bromide		2-Ethylhexylzinc bromide	
2076	0.5 M in Tetrahydrofuran	2077	0.5 M in Tetrahydrofuran
25mL \$180 50mL \$290 100mL \$490 250mL \$1,050 500mL \$1,400		25mL \$170 50mL \$240 100mL \$410 250mL \$850 500mL \$1,200	
2-Ethylphenylzinc iodide		4-Ethylphenylzinc iodide	
2117	0.5 M in Tetrahydrofuran	2118	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$440 250mL \$920 500mL \$1,400		25mL \$160 50mL \$240 100mL \$420 250mL \$790 500mL \$1,200	
2-Fluorobenzylzinc chloride		3-Fluorobenzylzinc chloride	
2087	0.5 M in Tetrahydrofuran	2088	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$860 500mL \$1,100		25mL \$160 50mL \$240 100mL \$410 250mL \$860 500mL \$1,200	
4-Fluorobenzylzinc chloride		3-Fluoro-4-methoxybenzylzinc chloride	
2089	0.5 M in Tetrahydrofuran	2276	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$420 250mL \$890 500mL \$1,200		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	

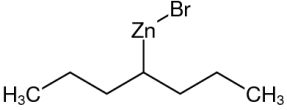
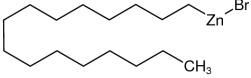
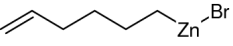
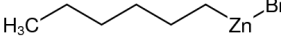
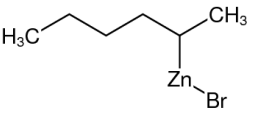
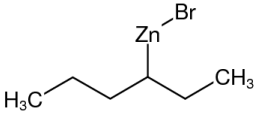
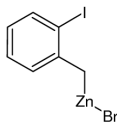
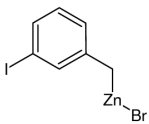
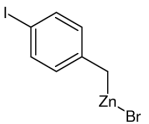
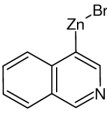
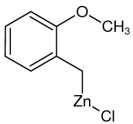
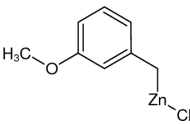
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5-Fluoro-2-methoxybenzylzinc chloride		3-Fluoro-2-methylbenzylzinc chloride	
2277	0.5 M in Tetrahydrofuran	2269	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Fluoro-4-methylbenzylzinc chloride		4-Fluoro-2-methylbenzylzinc chloride	
2270	0.5 M in Tetrahydrofuran	2271	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
4-Fluoro-3-methylbenzylzinc chloride		5-Fluoro-2-methylbenzylzinc chloride	
2272	0.5 M in Tetrahydrofuran	2273	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
2-Fluoro-4-methylphenylzinc bromide		3-Fluoro-4-methylphenylzinc iodide	
2147	0.5 M in Tetrahydrofuran	2054	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$540 250mL \$980 500mL \$1,300		25mL \$160 50mL \$230 100mL \$400 250mL \$690 500mL \$1,100	
5-Fluoro-2-methylphenylzinc iodide		2-Fluorophenethylzinc bromide	
2056	0.5 M in Tetrahydrofuran	2292	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$440 250mL \$850 500mL \$1,300		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	
3-Fluorophenethylzinc bromide		4-Fluorophenethylzinc bromide	
2228	0.5 M in Tetrahydrofuran	2227	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	

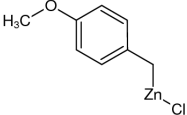
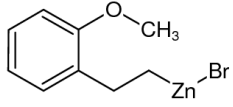
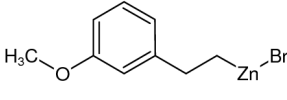
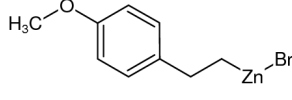
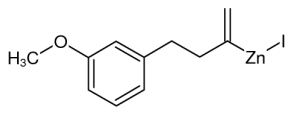
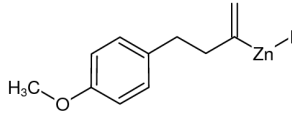
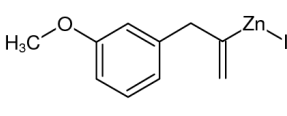
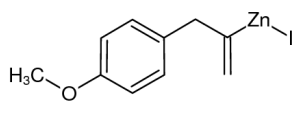
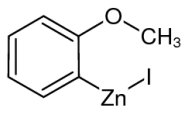
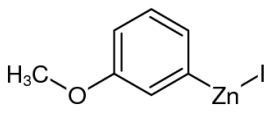
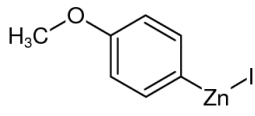
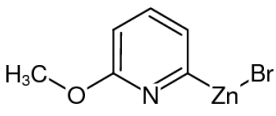
Alternate molarities and solvents are available for custom projects

4-(2-Fluorophenyl)-2-butenylzinc iodide		4-(3-Fluorophenyl)-2-butenylzinc iodide	
2320	0.5 M in Tetrahydrofuran	2321	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
4-(4-Fluorophenyl)-2-butenylzinc iodide		3-(3-Fluorophenyl)-2-propenylzinc iodide	
2322	0.5 M in Tetrahydrofuran	2325	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
3-(4-Fluorophenyl)-2-propenylzinc iodide		4-Fluorophenylzinc bromide	
2326	0.5 M in Tetrahydrofuran	2044	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,200	
2-Fluorophenylzinc iodide		3-Fluorophenylzinc iodide	
2175	0.5 M in Tetrahydrofuran	2045	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,200		25mL \$160 50mL \$240 100mL \$390 250mL \$760 500mL \$1,100	
5-Fluoro-2-pyridylzinc bromide		1-Heptylzinc bromide	
2301	0.5 M in Tetrahydrofuran	2141	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,500		25mL \$150 50mL \$230 100mL \$390 250mL \$740 500mL \$1,200	
2-Heptylzinc bromide		3-Heptylzinc bromide	
2073	0.5 M in Tetrahydrofuran	2074	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$230 100mL \$390 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$420 250mL \$790 500mL \$1,200	

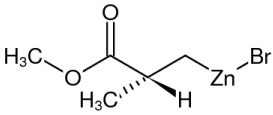
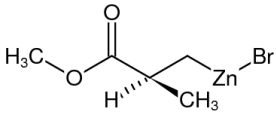
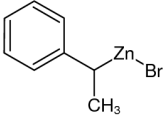
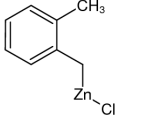
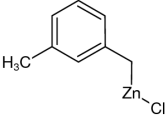
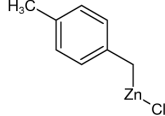
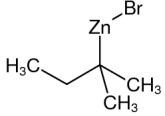
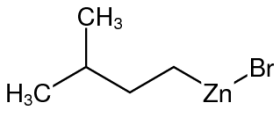
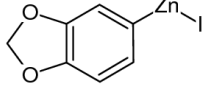
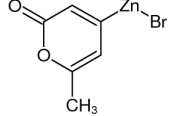
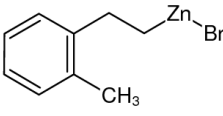
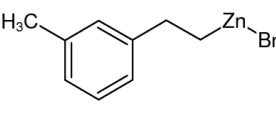
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4-Heptylzinc bromide		1-Hexadecylzinc bromide	
2075	0.5 M in Tetrahydrofuran	2142	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$250 100mL \$440 250mL \$880 500mL \$1,300		25mL \$150 50mL \$230 100mL \$380 250mL \$740 500mL \$1,200	
5-Hexenylzinc bromide		1-Hexylzinc bromide	
2066	0.5 M in Tetrahydrofuran	2036	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$410 250mL \$850 500mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$690 500mL \$1,100	
2-Hexylzinc bromide		3-Hexylzinc bromide	
2070	0.5 M in Tetrahydrofuran	2072	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$440 250mL \$880 500mL \$1,300	
2-Iodobenzylzinc bromide		3-Iodobenzylzinc bromide	
2172	0.5 M in Tetrahydrofuran	2153	0.5 M in Tetrahydrofuran
25mL \$190 50mL \$290 100mL \$490 250mL \$990 500mL \$1,500		25mL \$190 50mL \$290 100mL \$490 250mL \$990 500mL \$1,500	
4-Iodobenzylzinc bromide		4-Isoquinolinylzinc bromide	
2161	0.5 M in Tetrahydrofuran	2284	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$520 250mL \$1,040 500mL \$1,800		25mL \$180 50mL \$270 100mL \$420 250mL \$890 500mL \$1,300	
2-Methoxybenzylzinc chloride		3-Methoxybenzylzinc chloride	
2127	0.5 M in Tetrahydrofuran	2098	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$300 100mL \$470 250mL \$960 500mL \$1,300		25mL \$200 50mL \$310 100mL \$470 250mL \$960 500mL \$1,300	

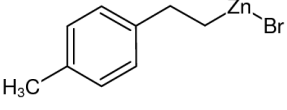
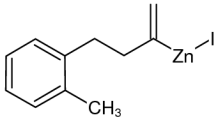
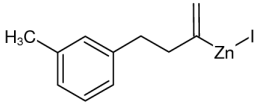
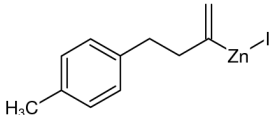
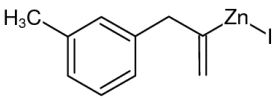
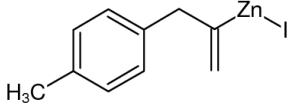
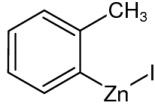
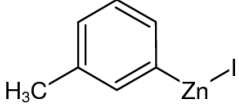
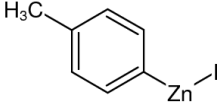
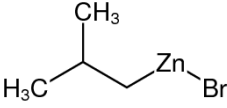
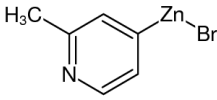
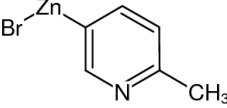
Alternate molarities and solvents are available for custom projects

4-Methoxybenzylzinc chloride		2-Methoxyphenethylzinc bromide	
2128	0.5 M in Tetrahydrofuran	2234	0.5 M in Tetrahydrofuran
25mL \$210 50mL \$340 100mL \$480 250mL \$880 500mL \$1,300		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	
3-Methoxyphenethylzinc bromide		4-Methoxyphenethylzinc bromide	
2233	0.5 M in Tetrahydrofuran	2232	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	
4-(3-Methoxyphenyl)-2-butenylzinc iodide		4-(4-Methoxyphenyl)-2-butenylzinc iodide	
2323	0.5 M in Tetrahydrofuran	2324	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
3-(3-Methoxyphenyl)-2-propenylzinc iodide		3-(4-Methoxyphenyl)-2-propenylzinc iodide	
2327	0.5 M in Tetrahydrofuran	2328	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
2-Methoxyphenylzinc iodide		3-Methoxyphenylzinc iodide	
2103	0.5 M in Tetrahydrofuran	2104	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$240 100mL \$410 250mL \$780 500mL \$1,200		25mL \$170 50mL \$260 100mL \$400 250mL \$810 500mL \$1,150	
4-Methoxyphenylzinc iodide		6-Methoxy-2-pyridylzinc bromide	
2105	0.5 M in Tetrahydrofuran	2180	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$410 250mL \$780 500mL \$1,150		25mL \$200 50mL \$310 100mL \$540 250mL \$980 500mL \$1,300	

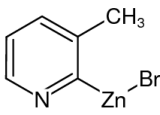
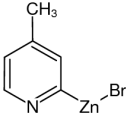
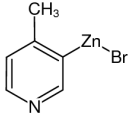
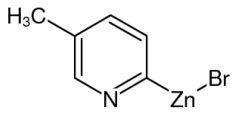
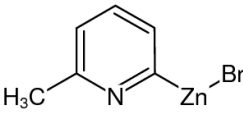
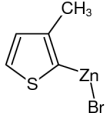
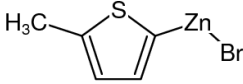
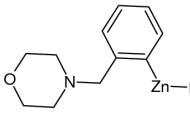
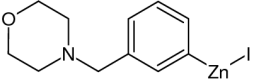
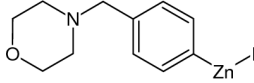
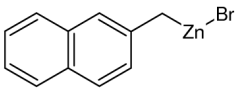
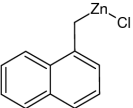
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3-Methoxy-(2R)-(+)-methyl-3-oxopropylzinc bromide		3-Methoxy(2S)-(-)-methyl-3-oxopropylzinc bromide	
2160	0.5 M in Tetrahydrofuran	2031	0.5 M in Tetrahydrofuran
Inquire for prices		Inquire for prices	
α -Methylbenzylzinc bromide		2-Methylbenzylzinc chloride	
2096	0.5 M in Tetrahydrofuran	2129	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$390 250mL \$690 500mL \$1,100		25mL \$160 50mL \$260 100mL \$440 250mL \$790 500mL \$1,100	
3-Methylbenzylzinc chloride		4-Methylbenzylzinc chloride	
2130	0.5 M in Tetrahydrofuran	2131	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$240 100mL \$440 250mL \$790 500mL \$1,150		25mL \$150 50mL \$240 100mL \$420 250mL \$790 500mL \$1,100	
2-Methyl-2-butylzinc bromide		3-Methylbutylzinc bromide	
2029	0.5 M in Tetrahydrofuran	2037	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$380 250mL \$790 500mL \$1,100	
3,4-(Methylenedioxy)phenylzinc iodide		6-Methyl-2H-pyrano-4-zinc bromide	
2289	0.5 M in Tetrahydrofuran	2315	0.5 M in Tetrahydrofuran
25mL \$190 50mL \$290 100mL \$450 250mL \$920 500mL \$1,500		25mL \$200 50mL \$300 100mL \$500 250mL \$800 500mL \$1,400	
2-Methylphenethylzinc bromide		3-Methylphenethylzinc bromide	
2231	0.5 M in Tetrahydrofuran	2230	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600	

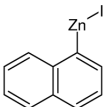
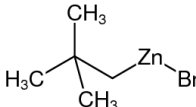
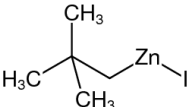
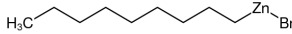
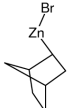
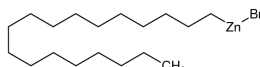
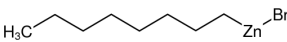
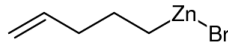
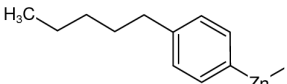
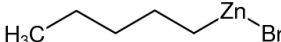
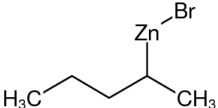
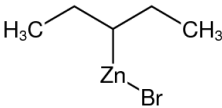
Alternate molarities and solvents are available for custom projects

4-Methylphenethylzinc bromide		4-(2-Methylphenyl)-2-butenylzinc iodide	
2229	0.5 M in Tetrahydrofuran	2317	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600		25ml \$300 50ml \$450 100ml \$800	
4-(3-Methylphenyl)-2-butenylzinc iodide		4-(4-Methylphenyl)-2-butenylzinc iodide	
2318	0.5 M in Tetrahydrofuran	2319	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
3-(3-Methylphenyl)-2-propenylzinc iodide		3-(4-Methylphenyl)-2-propenylzinc iodide	
2329	0.5 M in Tetrahydrofuran	2330	0.5 M in Tetrahydrofuran
25ml \$300 50ml \$450 100ml \$800		25ml \$300 50ml \$450 100ml \$800	
2-Methylphenylzinc iodide		3-Methylphenylzinc iodide	
2113	0.5 M in Tetrahydrofuran	2114	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$820 500mL \$1,100		25mL \$160 50mL \$240 100mL \$410 250mL \$790 500mL \$1,100	
4-Methylphenylzinc iodide		2-Methylpropylzinc bromide	
2115	0.5 M in Tetrahydrofuran	2038	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$230 100mL \$360 250mL \$690 500mL \$1,100		25mL \$160 50mL \$240 100mL \$360 250mL \$690 500mL \$990	
2-Methyl-4-pyridylzinc bromide		2-Methyl-5-pyridylzinc bromide	
2290	0.5 M in Tetrahydrofuran	2287	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,400		25mL \$190 50mL \$290 100mL \$450 250mL \$920 500mL \$1,500	

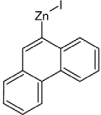
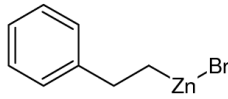
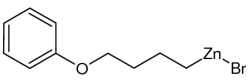
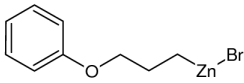
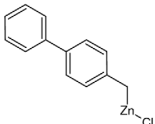
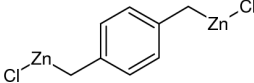
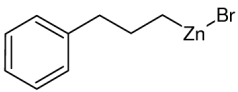
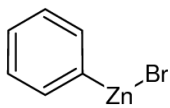
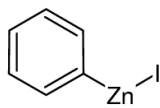
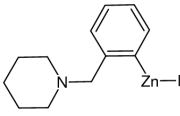
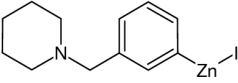
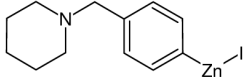
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3-Methyl-2-pyridylzinc bromide		4-Methyl-2-pyridylzinc bromide	
2126	0.5 M in Tetrahydrofuran	2125	0.5 M in Tetrahydrofuran
25mL \$175 50mL \$270 100mL \$440 250mL \$1,100 500mL \$1,300		25mL \$200 50mL \$310 100mL \$560 250mL \$1,100	
4-Methyl-3-pyridylzinc bromide		5-Methyl-2-pyridylzinc bromide	
2286	0.5 M in Tetrahydrofuran	2124	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,500		25mL \$175 50mL \$270 100mL \$440 250mL \$890 500mL \$1,200	
6-Methyl-2-pyridylzinc bromide		3-Methyl-2-thienylzinc bromide	
2123	0.5 M in Tetrahydrofuran	2132	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,400		25mL \$160 50mL \$260 100mL \$460 250mL \$890	
5-Methyl-2-thienylzinc bromide		2-[(4-Morpholino)methyl]phenylzinc iodide	
2244	0.5 M in Tetrahydrofuran	2215	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$420 250mL \$790 500mL \$1,100		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300	
3-[(4-Morpholino)methyl]phenylzinc iodide		4-[(4-Morpholino)methyl]phenylzinc iodide	
2216	0.5 M in Tetrahydrofuran	2217	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300	
(2-Naphthyl)methylzinc bromide		(1-Naphthyl)methylzinc chloride	
2099	0.5 M in Tetrahydrofuran	2308	0.5 M in Tetrahydrofuran
25mL \$190 50mL \$290 100mL \$510 250mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,300	

Alternate molarities and solvents are available for custom projects

1-Naphthylzinc iodide		Neopentylzinc bromide	
2120	0.5 M in Tetrahydrofuran	2262	0.5M in Tetrahydrofuran
25mL \$140 50mL \$220 100mL \$390 250mL \$890 500mL \$1,100		25mL \$160 50mL \$240 100mL \$340 250mL \$590 500mL \$990	
Neopentylzinc iodide		<i>n</i> -Nonylzinc bromide	
2235	0.5 M in Tetrahydrofuran	2263	0.5M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$340 250mL \$590 500mL \$990		25mL \$160 50mL \$240 100mL \$340 250mL \$800 500mL \$1,200	
<i>exo</i> -2-Norbornylzinc bromide		<i>n</i> -Octadecylzinc bromide	
2063	0.5 M in Tetrahydrofuran	2254	0.5M in Tetrahydrofuran
25mL \$150 50mL \$220 100mL \$390 250mL \$790 500mL \$1,100		25mL \$180 50mL \$270 100mL \$420 250mL \$730	
<i>n</i> -Octylzinc bromide		4-Pentylzinc bromide	
2224	0.5 M in Tetrahydrofuran	2065	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$780 500mL \$1,200		25mL \$150 50mL \$220 100mL \$380 250mL \$790 500mL \$1,100	
4- <i>n</i> -Pentylphenylzinc iodide		1-Pentylzinc bromide	
2040	0.5 M in Tetrahydrofuran	2035	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$420 250mL \$790		25mL \$160 50mL \$230 100mL \$390 250mL \$790 500mL \$1,100	
2-Pentylzinc bromide		3-Pentylzinc bromide	
2069	0.5 M in Tetrahydrofuran	2071	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$220 100mL \$380 250mL \$790 500mL \$1,100		25mL \$220 50mL \$340 100mL \$460 250mL \$840 500mL \$1,100	

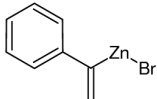
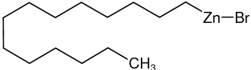
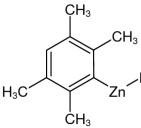
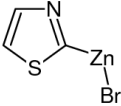
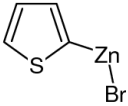
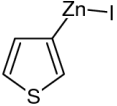
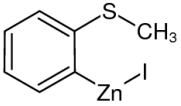
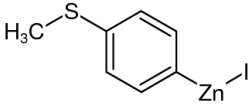
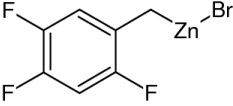
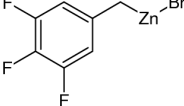
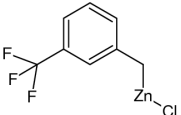
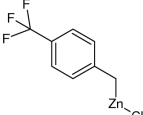
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9-Phenanthrenylzinc iodide		Phenethylzinc bromide	
2116	0.5 M in Tetrahydrofuran	2097	0.5 M in Tetrahydrofuran
25mL \$250 50mL \$390 100mL \$760 250mL \$1,400		25mL \$160 50mL \$240 100mL \$390 250mL \$690 500mL \$1,100	
4-Phenoxybutylzinc bromide		3-Phenoxypropylzinc bromide	
2169	0.5 M in Tetrahydrofuran	2168	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,200	
4-Phenylbenzylzinc chloride		Phenyl-1,4-di(methylzinc chloride)	
2164	0.5 M in Tetrahydrofuran	2293	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$550 250mL \$990 500mL \$1,200		25mL \$170 50mL \$260 100mL \$420 250mL \$820 500mL \$1,200	
3-Phenyl-1-propylzinc bromide		Phenylzinc bromide	
2245	0.5 M in Tetrahydrofuran	2140	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$220 100mL \$340 250mL \$600 500mL \$990		25mL \$150 50mL \$240 100mL \$360 250mL \$680 500mL \$1,100	
Phenylzinc iodide		2-[(1-Piperidino)methyl]phenylzinc iodide	
2032	0.5 M in Tetrahydrofuran	2221	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$360 250mL \$680 500mL \$1,100		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,600	
3-[(1-Piperidino)methyl]phenylzinc iodide		4-[(1-Piperidino)methyl]phenylzinc iodide	
2222	0.5 M in Tetrahydrofuran	2223	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300	

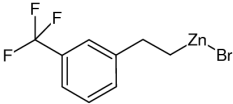
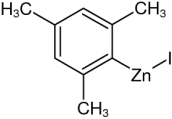
Alternate molarities and solvents are available for custom projects

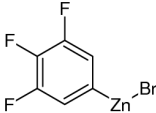
2- <i>iso</i> -Propylphenylzinc iodide		4- <i>iso</i> -Propylphenylzinc iodide	
2119	0.5 M in Tetrahydrofuran	2085	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$230 100mL \$420 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$780 500mL \$1,200	
<i>n</i> -Propylzinc bromide		2-Propylzinc bromide	
2033	0.5 M in Tetrahydrofuran	2248	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$230 100mL \$420 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$420 250mL \$790 500mL \$1,100	
2-Pyridinylmethylzinc chloride		2-Pyridylzinc bromide	
2306	0.5 M in Tetrahydrofuran	2020	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$510 250mL \$990 500mL \$1,400		25mL \$150 50mL \$220 100mL \$400 250mL \$790 500mL \$1,000	
3-Pyridylzinc bromide		5-Pyrimidylzinc bromide	
2282	0.5 M in Tetrahydrofuran	2283	0.5 M in Tetrahydrofuran
25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,400		25mL \$200 50mL \$310 100mL \$510 250mL \$1,000 500mL \$1,400	
2-[(1-Pyrrolidino)methyl]phenylzinc iodide		3-[(1-Pyrrolidino)methyl]phenylzinc iodide	
2218	0.5 M in Tetrahydrofuran	2219	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300		25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300	
4-[(1-Pyrrolidino)methyl]phenylzinc iodide		3-Quinolylzinc bromide	
2220	0.5 M in Tetrahydrofuran	2285	0.5 M in Tetrahydrofuran
25mL \$220 50mL \$340 100mL \$590 250mL \$990 500mL \$1,300		25mL \$180 50mL \$270 100mL \$420 250mL \$890 500mL \$1,300	

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α-Styrenylzinc bromide		Tetradecylzinc bromide	
2041	0.5 M in Tetrahydrofuran	2258	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$260 100mL \$440 250mL \$790 500mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$690 500mL \$990	
2,3,5,6-Tetramethylphenylzinc iodide		2-Thiazolylzinc bromide	
2192	0.5 M in Tetrahydrofuran	2024	0.5 M in Tetrahydrofuran
25mL \$190 50mL \$290 100mL \$520 250mL \$950 500mL \$1,200		25mL \$180 50mL \$270 100mL \$420 250mL \$790 500mL \$1,100	
2-Thienylzinc bromide		3-Thienylzinc iodide	
2023	0.5 M in Tetrahydrofuran	2203	0.5 M in Tetrahydrofuran
25mL \$160 50mL \$240 100mL \$440 250mL \$790 500mL \$1,100		25mL \$250 100mL \$390 250mL \$790 500mL \$1,300	
2-(Thiomethyl)phenylzinc iodide		4-(Thiomethyl)phenylzinc iodide	
2106	0.5 M in Tetrahydrofuran	2107	0.5 M in Tetrahydrofuran
25mL \$190 50mL \$290 100mL \$540 250mL \$1,000 500mL \$1,400		25mL \$230 50mL \$350 100mL \$680 250mL \$1,300	
2,4,5-Trifluorobenzylzinc bromide		3,4,5-Trifluorobenzylzinc bromide	
2300	0.5 M in Tetrahydrofuran	2299	0.5 M in Tetrahydrofuran
25mL \$260 50mL \$390 100mL \$540 250mL \$820 500mL \$1,400		25mL \$260 50mL \$390 100mL \$540 250mL \$820 500mL \$1,400	
3-Trifluoromethylbenzylzinc chloride		4-Trifluoromethylbenzylzinc chloride	
2200	0.5 M in Tetrahydrofuran	2201	0.5 M in Tetrahydrofuran
25mL \$150 50mL \$220 100mL \$340 250mL \$590 500mL \$1,100		25mL \$160 50mL \$240 100mL \$390 250mL \$790 500mL \$1,400	

****Alternate molarities and solvents are available for custom projects****

3-Trifluoromethylphenylzinc bromide	
2314	0.5 M in Tetrahydrofuran
25mL \$300	
50mL \$450	
100mL \$800	
250mL \$1,600	
2,4,6-Trimethylphenylzinc iodide	
2194	0.5 M in Tetrahydrofuran
25mL \$190	
50mL \$290	
100mL \$540	
250mL \$990	
500mL \$1,200	

3,4,5-Trifluorophenylzinc bromide	
2211	0.5 M in Tetrahydrofuran
25mL \$150	
50mL \$230	
100mL \$360	
250mL \$620	
500mL \$1,150	

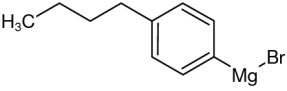
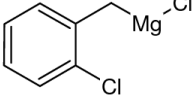
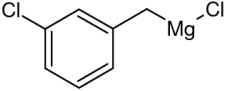
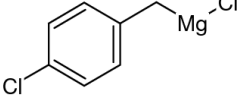
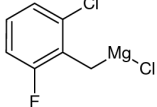
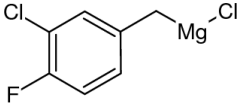
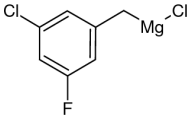
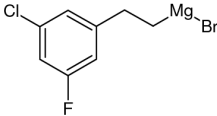
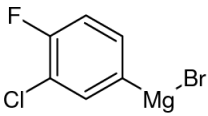
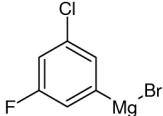
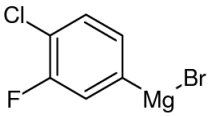
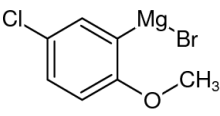
Other Organozinc Reagents are also available.
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I. Grignard Reagents

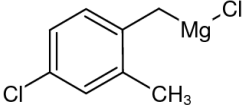
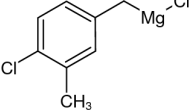
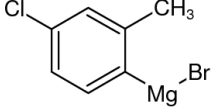
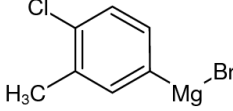
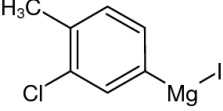
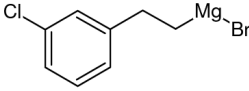
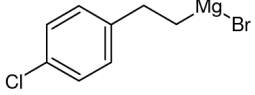
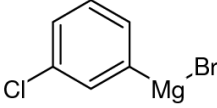
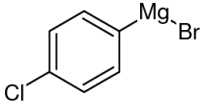
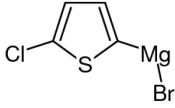
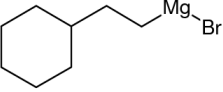
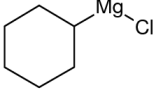
For quantities greater than listed, please contact Rieke Metals, Inc. by phone at (402)434-2775, fax at (402)434-2777, or email at sales@riekemetals.com.

5-Acenaphthylmagnesium bromide		2-Biphenylmagnesium bromide	
3093	0.5 M in Tetrahydrofuran	3027	0.5 M in Diethyl Ether
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$170 50mL \$250 100mL \$400 250mL \$650 500mL \$1,100	
4-Biphenylmagnesium bromide		2-Bromobenzylmagnesium bromide	
3029	0.5 M in Tetrahydrofuran	3063	0.25 M in Diethyl Ether
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3-Bromobenzylmagnesium bromide		4-Bromobenzylmagnesium bromide	
3062	0.25 M in Diethyl Ether	3061	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3-Bromo-2-thienylmagnesium bromide		4-tert-Butylbenzylmagnesium bromide	
3141	0.25 M in Tetrahydrofuran	3147	0.25 M in Tetrahydrofuran
50mL \$270 100mL \$400 200mL \$650 500mL \$1,100		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
4-tert-Butyl-2,6-dimethylphenylmagnesium bromide		4-tert-Butylphenylmagnesium bromide	
3189	0.5 M in Tetrahydrofuran	3015	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900	

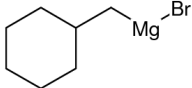
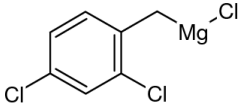
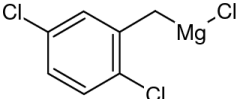
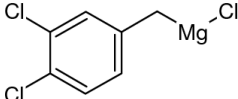
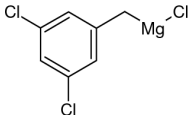
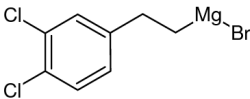
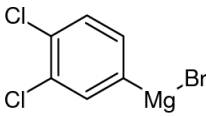
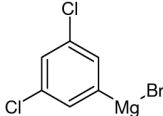
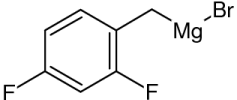
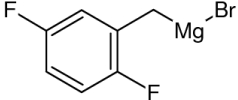
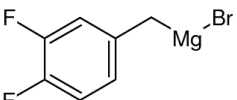
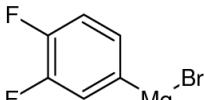
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4-n-Butylphenylmagnesium bromide		2-Chlorobenzylmagnesium chloride	
3014	0.5 M in Tetrahydrofuran	3055	0.25 M in Diethyl Ether
25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3-Chlorobenzylmagnesium chloride		4-Chlorobenzylmagnesium chloride	
3054	0.25 M in Diethyl Ether	3024	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$170 100mL \$250 200mL \$400 500mL \$800	
2-Chloro-6-fluorobenzylmagnesium chloride		3-Chloro-4-fluorobenzylmagnesium chloride	
3052	0.25 M in Diethyl Ether	3207	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-Chloro-5-fluorobenzylmagnesium chloride		3-Chloro-5-fluorophenethylmagnesium bromide	
3209	0.25 M in Diethyl Ether	3217	0.5 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Chloro-4-fluorophenylmagnesium bromide		3-Chloro-5-fluorophenylmagnesium bromide	
3115	0.5 M in Tetrahydrofuran	3117	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4-Chloro-3-fluorophenylmagnesium bromide		5-Chloro-2-methoxyphenylmagnesium bromide	
3116	0.5 M in Tetrahydrofuran	3238	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100 1liter \$1,700	

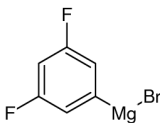
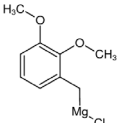
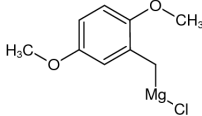
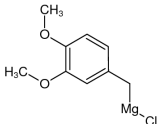
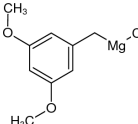
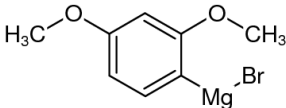
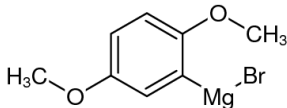
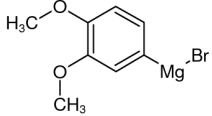
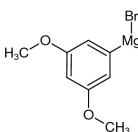
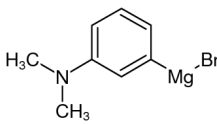
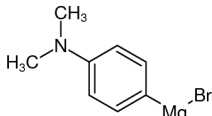
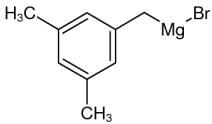
Alternate Molarities and Solvents available for custom orders

4-Chloro-2-methylbenzylmagnesium chloride		4-Chloro-3-methylbenzylmagnesium chloride	
3175	0.25 M in Diethyl Ether	3176	0.25 M in Diethyl Ether
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
4-Chloro-2-methylphenylmagnesium bromide		4-Chloro-3-methylphenylmagnesium bromide	
3118	0.5 M in Tetrahydrofuran	3119	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
3-Chloro-4-methylphenylmagnesium iodide		3-Chlorophenethylmagnesium bromide	
3196	0.5 M in Diethyl Ether	3198	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
4-Chlorophenethylmagnesium bromide		3-Chlorophenylmagnesium bromide	
3197	0.5 M in Tetrahydrofuran	3004	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4-Chlorophenylmagnesium bromide		5-Chloro-2-thienylmagnesium bromide	
3220	0.5 M in Tetrahydrofuran	3114	0.25 M in Tetrahydrofuran
50mL \$100 100mL \$150 500mL \$400		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
2-Cyclohexylethylmagnesium bromide		Cyclohexylmagnesium chloride	
3216	0.5 M in Tetrahydrofuran	3213	1.0 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		50mL \$125 100mL \$175 500mL \$500	

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Cyclohexylmethylmagnesium bromide		2,4-Dichlorobenzylmagnesium chloride	
3113	0.25 M in Tetrahydrofuran	3078	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
2,5-Dichlorobenzylmagnesium chloride		3,4-Dichlorobenzylmagnesium chloride	
3095	0.25 M in Diethyl Ether	3022	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$170 100mL \$250 200mL \$400 500mL \$800	
3,5-Dichlorobenzylmagnesium chloride		3,4-Dichlorophenethylmagnesium bromide	
3023	0.25 M in Diethyl Ether	3239	0.5 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3,4-Dichlorophenylmagnesium bromide		3,5-Dichlorophenylmagnesium bromide	
3250	0.5 M in Tetrahydrofuran	3251	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2,4-Difluorobenzylmagnesium bromide		2,5-Difluorobenzylmagnesium bromide	
3099	0.25 M in Diethyl Ether	3100	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3,4-Difluorobenzylmagnesium bromide		3,4-Difluorophenylmagnesium bromide	
3098	0.25 M in Diethyl Ether	3005	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	

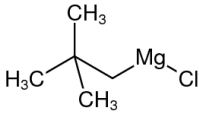
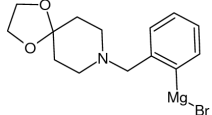
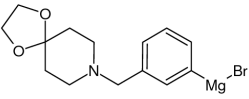
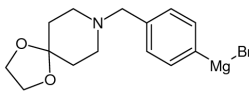
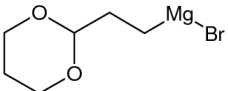
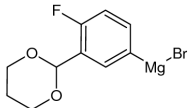
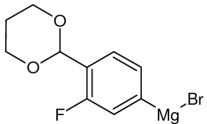
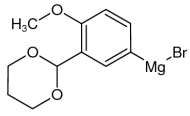
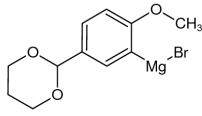
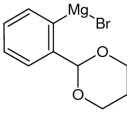
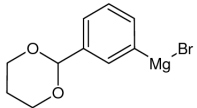
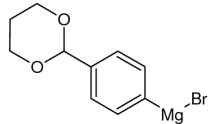
****Alternate Molarities and Solvents available for custom orders****

3,5-Difluorophenylmagnesium bromide		2,3-Dimethoxybenzylmagnesium chloride	
3006	0.5 M in Tetrahydrofuran	3096	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
2,5-Dimethoxybenzylmagnesium chloride		3,4-Dimethoxybenzylmagnesium chloride	
3102	0.25 M in Tetrahydrofuran	3101	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3,5-Dimethoxybenzylmagnesium chloride		2,4-Dimethoxyphenylmagnesium bromide	
3105	0.25 M in Tetrahydrofuran	3039	0.5 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2,5-Dimethoxyphenylmagnesium bromide		3,4-Dimethoxyphenylmagnesium bromide	
3025	0.5 M in Tetrahydrofuran	3026	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
3,5-Dimethoxyphenylmagnesium bromide		3-N,N-Dimethylanilinemagnesium bromide	
3212	0.5 M in Tetrahydrofuran	3211	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$170 50mL \$250 100mL \$400 250mL \$650 500mL \$1,100	
4-N,N-Dimethylanilinemagnesium bromide		3,5-Dimethylbenzylmagnesium bromide	
3007	0.5 M in Tetrahydrofuran	3073	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$170 100mL \$250 200mL \$400 500mL \$800	

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2,4-Dimethylbenzylmagnesium chloride		2,5-Dimethylbenzylmagnesium chloride	
3097	0.25 M in Tetrahydrofuran	3071	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
2,6-Dimethylbenzylmagnesium chloride		3,4-Dimethylbenzylmagnesium chloride	
3184	0.25 M in Tetrahydrofuran	3072	0.25 M in Tetrahydrofuran
25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3,5-Dimethyl-4-methoxyphenethylmagnesium bromide		3,5-Dimethyl-4-methoxyphenylmagnesium bromide	
3231	0.5M in Tetrahydrofuran	3082	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2,3-Dimethylphenylmagnesium bromide		2,4-Dimethylphenylmagnesium bromide	
3041	0.5 M in Tetrahydrofuran	3042	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2,5-Dimethylphenylmagnesium bromide		2,6-Dimethylphenylmagnesium bromide	
3043	0.5 M in Tetrahydrofuran	3044	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
3,5-Dimethylphenylmagnesium bromide		3,4-Dimethylphenylmagnesium chloride	
3046	0.5 M in Tetrahydrofuran	3045	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	

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2,2-Dimethylpropylmagnesium chloride		2-[8-(1,4-Dioxo-8-azaspiro[4.5]decyl)methyl]phenylmagnesium bromide	
3210	1.0 M in Diethyl Ether	3167	0.25 M in Tetrahydrofuran
50mL \$270 100mL \$400 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-[8-(1,4-Dioxo-8-azaspiro[4.5]decyl)methyl]phenylmagnesium bromide		4-[8-(1,4-Dioxo-8-azaspiro[4.5]decyl)methyl]phenylmagnesium bromide	
3168	0.25 M in Tetrahydrofuran	3169	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
(1,3-Dioxan-2-ylethyl)magnesium bromide		3-(1,3-Dioxan-2-yl)-4-fluorophenylmagnesium bromide	
3008	0.5 M in Tetrahydrofuran	3160	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
4-(1,3-Dioxan-2-yl)-3-fluorophenylmagnesium bromide		3-(1,3-Dioxan-2-yl)-4-methoxyphenylmagnesium bromide	
3161	0.25 M in Tetrahydrofuran	3162	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
5-(1,3-Dioxan-2-yl)-2-methoxyphenylmagnesium bromide		2-(1,3-Dioxan-2-yl)phenylmagnesium bromide	
3163	0.25 M in Tetrahydrofuran	3157	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3-(1,3-Dioxan-2-yl)phenylmagnesium bromide		4-(1,3-Dioxan-2-yl)phenylmagnesium bromide	
3158	0.25 M in Tetrahydrofuran	3159	0.25 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	

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2-(1,3-Dioxolan-2-yl)phenylmagnesium bromide		3-(1,3-Dioxolan-2-yl)phenylmagnesium bromide	
3088	0.5 M in Tetrahydrofuran	3089	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4-(1,3-Dioxolan-2-yl)phenylmagnesium bromide		2-Ethoxybenzylmagnesium chloride	
3090	0.5 M in Tetrahydrofuran	3120	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
4-Ethoxybenzylmagnesium chloride		2-Ethoxyphenylmagnesium bromide	
3121	0.25 M in Tetrahydrofuran	3236	
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$140 50mL \$200 100mL \$350 250mL \$650	
3-Ethoxyphenylmagnesium bromide		4-Ethoxyphenylmagnesium bromide	
3230	0.5 M in Tetrahydrofuran	3228	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2-Ethylbutylmagnesium bromide		3,4-(Ethylenedioxy)phenylmagnesium bromide	
3122	0.25 M in Tetrahydrofuran	3188	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2-Ethylhexylmagnesium bromide		2-Ethylphenylmagnesium bromide	
3123	0.25 M in Tetrahydrofuran	3124	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900	

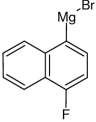
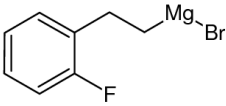
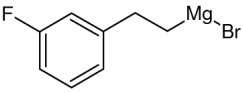
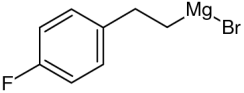
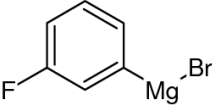
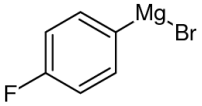
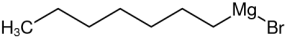
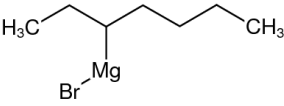
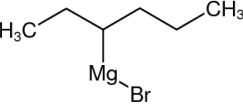
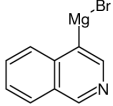
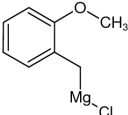
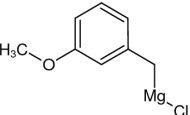
Alternate Molarities and Solvents available for custom orders

3-Ethylphenylmagnesium bromide		4-Ethylphenylmagnesium bromide	
3232	0.5M in Tetrahydrofuran	3017	0.5 M in Tetrahydrofuran
25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900		25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900	
4-(Ethylthio)benzylmagnesium chloride		4-(Ethylthio)phenylmagnesium bromide	
3227	0.25M in Diethyl Ether	3226	0.5 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2-Fluorobenzylmagnesium chloride		3-Fluorobenzylmagnesium chloride	
3060	0.25 M in Diethyl Ether	3059	0.25 M in Diethyl Ether
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
4-Fluorobenzylmagnesium chloride		3-Fluoro-4-biphenylmagnesium bromide	
3058	0.25 M in Tetrahydrofuran	3094	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
3-Fluoro-4-methoxybenzylmagnesium chloride		5-Fluoro-2-methoxybenzylmagnesium chloride	
3177	0.25 M in Tetrahydrofuran	3178	0.25 M in Diethyl Ether
25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-Fluoro-4-methoxyphenylmagnesium bromide		5-Fluoro-2-methoxyphenylmagnesium bromide	
3030	0.5 M in Tetrahydrofuran	3031	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	

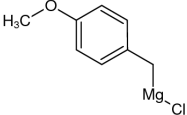
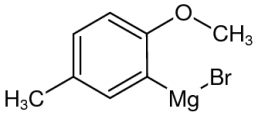
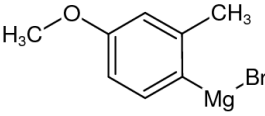
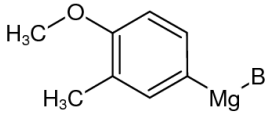
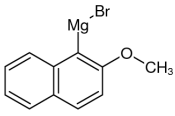
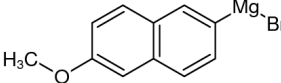
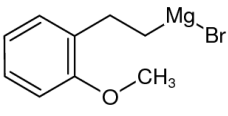
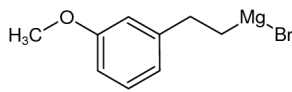
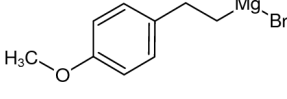
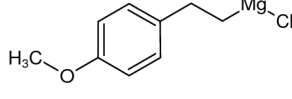
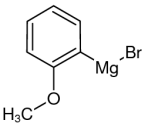
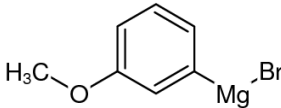
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3-Fluoro-2-methylbenzylmagnesium chloride		3-Fluoro-4-methylbenzylmagnesium chloride	
3170	0.25 M in Diethyl Ether	3171	0.25 M in Diethyl Ether
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
4-Fluoro-2-methylbenzylmagnesium chloride		4-Fluoro-3-methylbenzylmagnesium chloride	
3172	0.25 M in Diethyl Ether	3173	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
5-Fluoro-2-methylbenzylmagnesium chloride		3-Fluoro-2-methylphenyl magnesium bromide	
3174	0.25 M in Diethyl Ether	3235	0.5M in THF
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$140 50ml \$200 100ml \$350 250ml \$650 500ml \$1,100	
3-Fluoro-4-methylphenylmagnesium bromide		3-Fluoro-5-methylphenyl magnesium bromide	
3020	0.5 M in Tetrahydrofuran	3234	0.5M in THF
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50ml \$200 100ml \$350 250ml \$650 500ml \$1,100	
4-Fluoro-2-methylphenylmagnesium bromide		4-Fluoro-3-methylphenylmagnesium bromide	
3019	0.5 M in Tetrahydrofuran	3033	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
5-Fluoro-2-methylphenylmagnesium bromide		3-Fluoro-2-methylphenylmagnesium chloride	
3018	0.5 M in Tetrahydrofuran	3032	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	

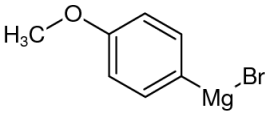
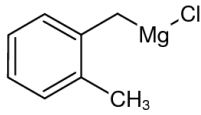
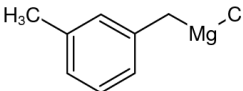
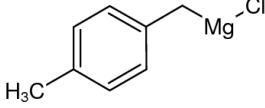
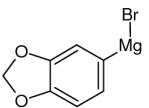
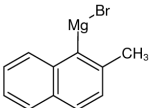
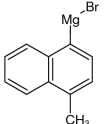
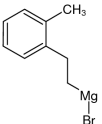
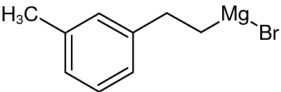
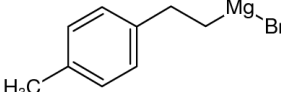
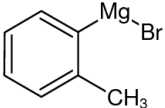
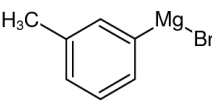
Alternate Molarities and Solvents available for custom orders

4-Fluoro-1-naphthylmagnesium bromide		2-Fluorophenethylmagnesium bromide	
3034	0.25 M in Tetrahydrofuran	3233	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Fluorophenethylmagnesium bromide		4-Fluorophenethylmagnesium bromide	
3200	0.5 M in Tetrahydrofuran	3199	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Fluorophenylmagnesium bromide		4-Fluorophenylmagnesium bromide	
3009	0.5 M in Tetrahydrofuran	3219	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$100 100mL \$150 500mL \$400	
1-Heptylmagnesium bromide		3-Heptylmagnesium bromide	
3137	0.25 M in Tetrahydrofuran	3126	0.25 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3-Hexylmagnesium bromide		4-Isoquinolinmagnesium bromide	
3129	0.25 M in Tetrahydrofuran	3091	0.25 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$300 100mL \$400 200mL \$700 500mL \$1,500	
2-Methoxybenzylmagnesium chloride		3-Methoxybenzylmagnesium chloride	
3057	0.25 M in Tetrahydrofuran	3056	0.25 M in Tetrahydrofuran
50mL \$270 100mL \$400 200mL \$650 500mL \$1,100		50mL \$170 100mL \$250 200mL \$400 500mL \$800	

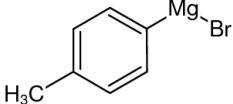
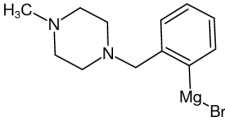
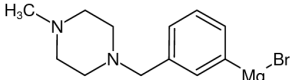
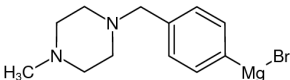
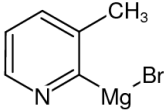
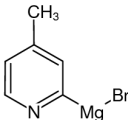
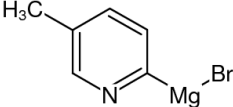
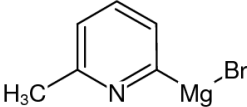
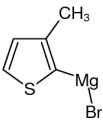
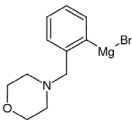
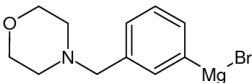
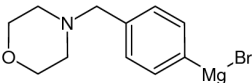
****If you need a Halide converted into a Grignard Reagent give us a call****

4-Methoxybenzylmagnesium chloride		2-Methoxy-5-methylphenylmagnesium bromide	
3040	0.25 M in Tetrahydrofuran	3135	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4-Methoxy-2-methylphenylmagnesium bromide		4-Methoxy-3-methylphenylmagnesium bromide	
3083	0.5 M in Tetrahydrofuran	3144	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2-Methoxy-1-naphthylmagnesium bromide		6-Methoxy-2-naphthylmagnesium bromide	
3143	0.25 M in Tetrahydrofuran	3037	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2-Methoxyphenethylmagnesium bromide		3-Methoxyphenethylmagnesium bromide	
3206	0.5 M in Tetrahydrofuran	3205	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
4-Methoxyphenethylmagnesium bromide		4-Methoxyphenethylmagnesium chloride	
3204	0.5 M in Tetrahydrofuran	3080	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2-Methoxyphenylmagnesium bromide		3-Methoxyphenylmagnesium bromide	
3003	0.5 M in Tetrahydrofuran	3001	0.5 M in Tetrahydrofuran
25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900		25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900	

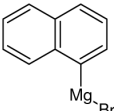
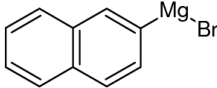
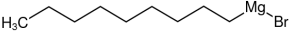
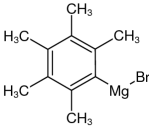
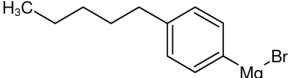
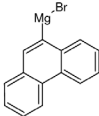
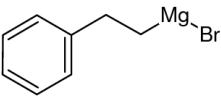
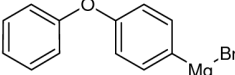
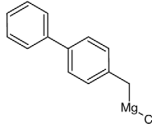
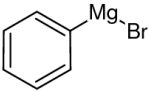
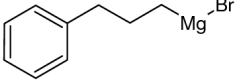
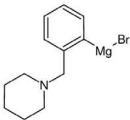
Alternate Molarities and Solvents available for custom orders

4-Methoxyphenylmagnesium bromide		2-Methylbenzylmagnesium chloride	
3002	0.5 M in Tetrahydrofuran	3064	0.25 M in Tetrahydrofuran
25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3-Methylbenzylmagnesium chloride		4-Methylbenzylmagnesium chloride	
3065	0.25 M in Tetrahydrofuran	3053	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
3,4-(Methylenedioxy)phenylmagnesium bromide		2-Methyl-1-naphthylmagnesium bromide	
3092	0.5 M in Tetrahydrofuran	3035	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
4-Methyl-1-naphthylmagnesium bromide		2-Methylphenethylmagnesium bromide	
3036	0.25 M in Tetrahydrofuran	3203	0.5 M in Tetrahydrofuran
50mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
3-Methylphenethylmagnesium bromide		4-Methylphenethylmagnesium bromide	
3202	0.5 M in Tetrahydrofuran	3201	0.5 M in Tetrahydrofuran
25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900		25mL \$300 50mL \$450 100mL \$800 250mL \$1,600 500mL \$2,900	
2-Methylphenylmagnesium bromide		3-Methylphenylmagnesium bromide	
3221	0.5 M in Tetrahydrofuran	3222	0.5 M in Tetrahydrofuran
50mL \$100 100mL \$150 500mL \$400		50mL \$100 100mL \$150 500mL \$400	

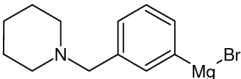
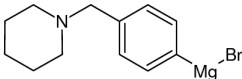
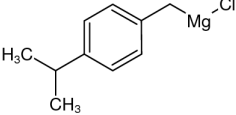
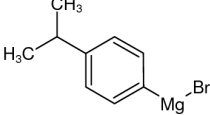
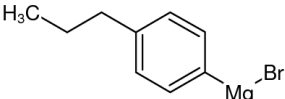
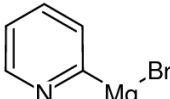
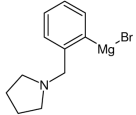
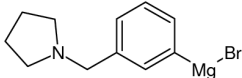
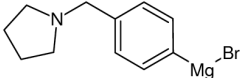
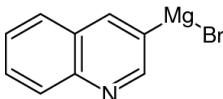
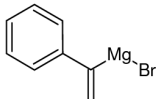
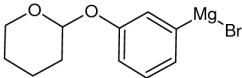
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4-Methylphenylmagnesium bromide		2-[(4-Methylpiperazino)methyl]phenylmagnesium bromide	
3223	0.5 M in Tetrahydrofuran	3190	0.25 M in Tetrahydrofuran
50mL \$100 100mL \$150 500mL \$400		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-[(4-Methylpiperazino)methyl]phenylmagnesium bromide		4-[(4-Methylpiperazino)methyl]phenylmagnesium bromide	
3191	0.25 M in Tetrahydrofuran	3192	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-Methyl-2-pyridylmagnesium bromide		4-Methyl-2-pyridylmagnesium bromide	
3051	0.25 M in Tetrahydrofuran	3050	0.25 M in Tetrahydrofuran
50mL \$270 100mL \$400 200mL \$700 500mL \$1,500		50mL \$270 100mL \$400 200mL \$700 500mL \$1,500	
5-Methyl-2-pyridylmagnesium bromide		6-Methyl-2-pyridylmagnesium bromide	
3049	0.25 M in Tetrahydrofuran	3028	0.25 M in Tetrahydrofuran
50mL \$270 100mL \$400 200mL \$700 500mL \$1,500		50mL \$270 100mL \$400 200mL \$700 500mL \$1,500	
3-Methyl-2-thienylmagnesium bromide		2-[(4-Morpholino)methyl]phenylmagnesium bromide	
3081	0.5 M in Tetrahydrofuran	3148	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-[(4-Morpholino)methyl]phenylmagnesium bromide		4-[(4-Morpholino)methyl]phenylmagnesium bromide	
3149	0.25 M in Tetrahydrofuran	3150	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	

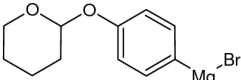
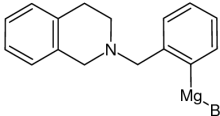
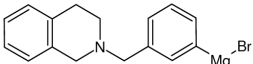
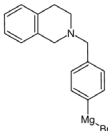
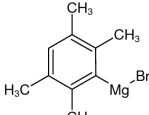
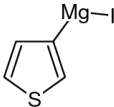
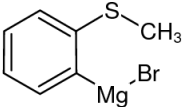
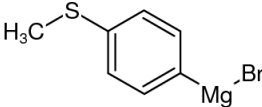
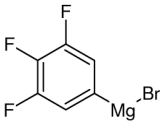
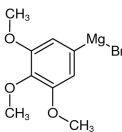
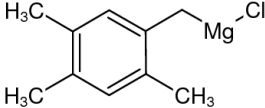
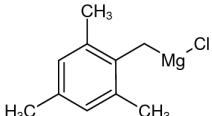
Alternate Molarities and Solvents available for custom orders

1-Naphthylmagnesium bromide		2-Naphthylmagnesium bromide	
3010	0.25 M in Tetrahydrofuran	3075	0.5 M in Tetrahydrofuran
25mL \$170 100mL \$250 200mL \$400 500mL \$800		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
Nonylmagnesium bromide		2,3,4,5,6-Pentamethylphenylmagnesium bromide	
3237		3038	0.5 M in Tetrahydrofuran
25mL \$100 50mL \$150 100mL \$280 250mL \$550		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4-n-Pentylphenylmagnesium bromide		9-Phenanthrylmagnesium bromide	
3077	0.5 M in Tetrahydrofuran	3011	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
Phenethylmagnesium bromide		4-Phenoxyphenylmagnesium bromide	
3187	0.5 M in Tetrahydrofuran	3012	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4-Phenylbenzylmagnesium chloride		Phenylmagnesium bromide	
3106	0.25 M in Diethyl Ether	3218	1.0 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$100 100mL \$150 500mL \$400	
3-Phenyl-1-propylmagnesium bromide		2-[(1-Piperidino)methyl]phenylmagnesium bromide	
3215	0.5 M in Tetrahydrofuran	3154	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	

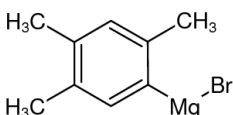
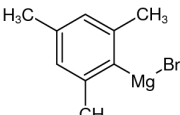
If you need a Halide converted into a Grignard Reagent give us a call

3-[(1-Piperidino)methyl]phenylmagnesium bromide		4-[(1-Piperidino)methyl]phenylmagnesium bromide	
3155	0.25 M in Tetrahydrofuran	3156	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
4- <i>iso</i> -Propylbenzylmagnesium chloride		4- <i>iso</i> -Propylphenylmagnesium bromide	
3225	0.25 M in Tetrahydrofuran	3076	0.5 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
4- <i>n</i> -Propylphenylmagnesium bromide		2-Pyridylmagnesium bromide	
3016	0.5 M in Tetrahydrofuran	3074	0.25 M in Tetrahydrofuran
25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900		50mL \$170 100mL \$250 200mL \$400 500mL \$800	
2-[(1-Pyrrolidino)methyl]phenylmagnesium bromide		3-[(1-Pyrrolidino)methyl]phenylmagnesium bromide	
3151	0.25 M in Tetrahydrofuran	3152	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
4-[(1-Pyrrolidino)methyl]phenylmagnesium bromide		3-Quinolylmagnesium bromide	
3153	0.25 M in Tetrahydrofuran	3134	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$270 100mL \$400 200mL \$700 500mL \$1,500	
α -Styrenylmagnesium bromide		3-(2-Tetrahydro-2H-pyranoxy)phenylmagnesium bromide	
3131	0.5 M in Tetrahydrofuran	3229	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	

****Alternate Molarities and Solvents available for custom orders****

4-(2-Tetrahydro-2H-pyranoxy)phenylmagnesium bromide		2-(1,2,3,4-Tetrahydroquinolin-2-ylmethyl)phenylmagnesium bromide	
3084	0.5 M in Tetrahydrofuran	3195	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
3-(1,2,3,4-Tetrahydroquinolin-2-ylmethyl)phenylmagnesium bromide		4-(1,2,3,4-Tetrahydroquinolin-2-ylmethyl)phenylmagnesium bromide	
3194	0.25 M in Tetrahydrofuran	3193	0.25 M in Tetrahydrofuran
50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
2,3,5,6-Tetramethylphenylmagnesium bromide		3-Thienylmagnesium iodide	
3047	0.5 M in Tetrahydrofuran	3252	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$250 100mL \$400 250mL \$650 500mL \$1,100		25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	
2-Thioanisolemagnesium bromide		4-Thioanisolemagnesium bromide	
3146	0.5 M in Tetrahydrofuran	3013	0.5 M in Tetrahydrofuran
25mL \$170 50mL \$250 100mL \$400 250mL \$650 500mL \$1,100		25mL \$100 50mL \$150 100mL \$280 250mL \$550 500mL \$900	
3,4,5-Trifluorophenylmagnesium bromide		3,4,5-Trimethoxyphenylmagnesium bromide	
3021	0.5 M in Tetrahydrofuran	3214	0.25 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	
2,4,5-Trimethylbenzylmagnesium chloride		2,4,6-Trimethylbenzylmagnesium chloride	
3183	0.25 M in Tetrahydrofuran	3182	0.25 M in Tetrahydrofuran
25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500		25mL \$200 50mL \$300 100mL \$450 200mL \$800 500mL \$1,500	

If you need a Halide converted into a Grignard Reagent give us a call

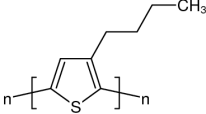
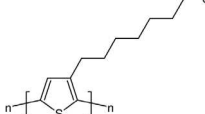
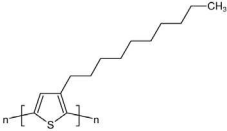
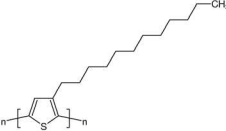
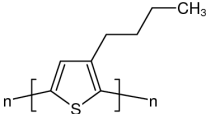
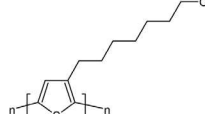
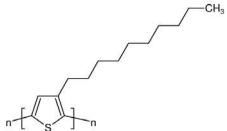
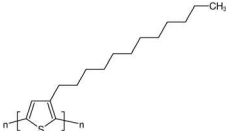
2,4,5-Trimethylphenylmagnesium bromide		2,4,6-Trimethylphenylmagnesium bromide	
3145	0.5 M in Tetrahydrofuran	3142	0.5 M in Tetrahydrofuran
25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100		25mL \$140 50mL \$200 100mL \$350 250mL \$650 500mL \$1,100	

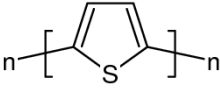
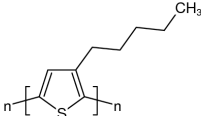
I. Rieke® Specialty Conducting Polymers

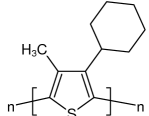
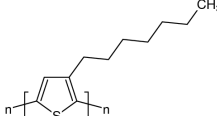
Highly regioregular (90%-93% or higher) as well as the regiorandom(1:1:1:1)poly(3-alkylthiophene-2,5-diyl) polymers were developed by R.E. Rieke and T.A. Chen at the University of Nebraska-Lincoln. For more details and references see: (a) T. Chen and R.D. Rieke, J. Am. Chem. Soc. 114 10087(1992); (b) T. Chen and R.D. Rieke, Synth. Mat,60,175(1993); (c) T. Chen, X. Wu, and R.D. Rieke, J. Am. Chem. Soc. 117, 233 (1995).

Current pricing can be found on our website, www.riekemetals.com

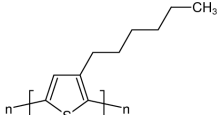
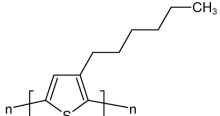
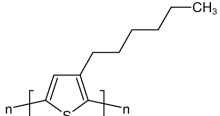
Poly(3-alkylthiophenes)

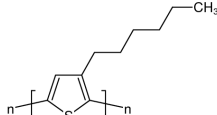
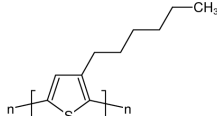
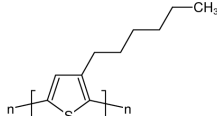
Poly(3-butylthiophene-2,5-diyl), regioregular Electronic Grade		Poly(3-octylthiophene-2,5-diyl), regioregular Electronic grade	
4001-E	Regioregularity= 80-90%	4003-E	Regioregularity = 91-93%
			
Poly(3-decylthiophene-2,5-diyl), regioregular Electronic Grade		Poly(3-dodecylthiophene-2,5-diyl), regioregular	
4004-E	Regioregularity = 91-93%	4005-E	Regioregularity = 91-93%
			
Poly(3-butylthiophene-2,5-diyl), regiorandom		Poly(3-octylthiophene-2,5-diyl), regiorandom	
4006		4008	
			
Poly(3-decylthiophene-2,5-diyl), regiorandom		Poly(3-dodecylthiophene-2,5-diyl), regiorandom	
4009		4010	
			

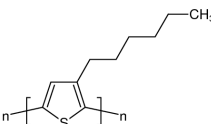
Polythiophene-2,5-diyl	
4011	
Poly(3-pentylthiophene-2,5-diyl), regioregular	
4015	

Poly(3-cyclohexyl-4-methylthiophene-2,5-diyl)	
4013	
Poly(3-heptylthiophene-2,5-diyl), regioregular	
4016	

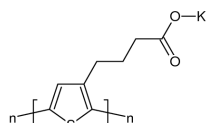
Poly(3-hexylthiophene-2,5-diyl) or P3HT

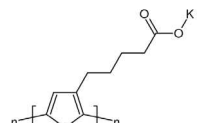
Poly(3-hexylthiophene-2,5-diyl), regioregular Electronic grade	
4002-E	Regioregularity = 91-94% 
Poly(3-hexylthiophene-2,5-diyl), regiorandom	
4007	
Poly(3-hexylthiophene-2,5-diyl), regioregular	
RMI-001EE	P3HT ave Regioregularity = 96% 

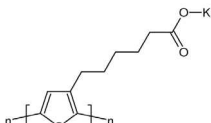
Poly(3-hexylthiophene-2,5-diyl), regioregular Electronic grade	
4002-EE	Regioregularity = 91-94% 
Poly(3-hexylthiophene-2,5-diyl), regioregular	
RMI-001E	Approx Regioregularity = 96% 
Poly(3-hexylthiophene-2,5-diyl), regioregular	
RMI-002E	ave Regioregularity = 89-94% 

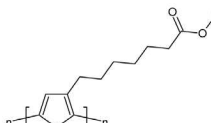
Poly(3-hexylthiophene-2,5-diyl), regioregular	
RMI-002EE	ave Regioregularity = 89-94%
	

Rieke® Water Soluble Polymers

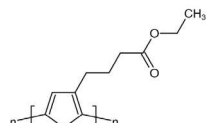
Poly[3-(Potassium-4-butanoate)thiophene-2,5-diyl], regioregular	
4021	ave Regioregularity = 82-90%
	

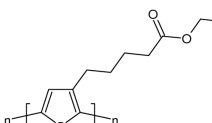
Poly[3-(potassium-5-pentanoate)thiophene-2,5-diyl], regioregular	
4022	ave Regioregularity = 82-90%
	

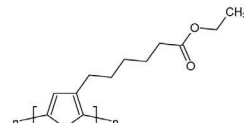
Poly[3-(potassium-6-hexanoate)thiophene-2,5-diyl], regioregular	
4024	ave Regioregularity = 82-90%
	

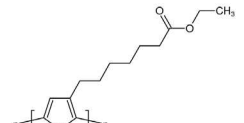
Poly[3-(potassium-7-heptanoate)thiophene-2,5-diyl], regioregular	
4026	ave Regioregularity = 82-90%
	

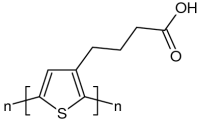
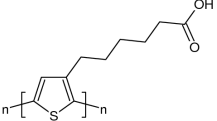
Functionalized 3-Alkyl Polythiophene

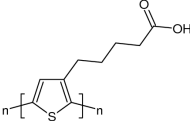
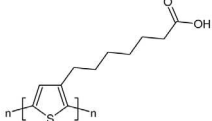
Poly[3-(Ethyl-4-butanoate)thiophene-2,5-diyl], regioregular	
4020	
	

Poly[3-(ethyl-5-pentanoate)thiophene-2,5-diyl], regioregular	
4023	ave Regioregularity = 80-90%
	

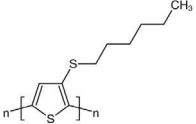
Poly[3-(ethyl-6-hexanoate)thiophene-2,5-diyl], regioregular	
4025	
	

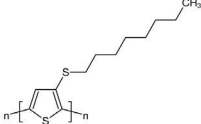
Poly[3-(ethyl-7-heptanoate)thiophene-2,5-diyl], regioregular	
4027	
	

Poly [3-(3-carboxypropyl)thiophene-2,5-diyl] regioregular	
4030	ave Regioregularity = 84-85%
	
Poly [3-(5-carboxypentyl)thiophene-2,5-diyl] regioregular	
4032	
	

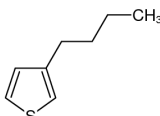
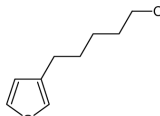

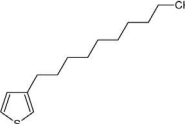
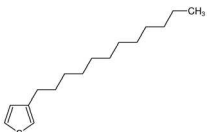
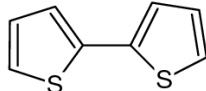
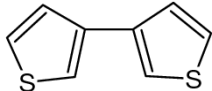
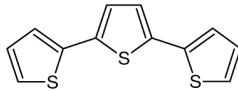
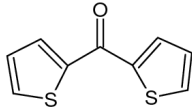
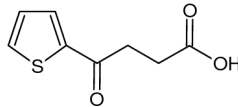
Poly [3-(4-carboxybutyl)thiophene-2,5-diyl] regioregular	
4031	
	
Poly [3-(6-carboxyhexyl)thiophene-2,5-diyl] regioregular	
4033	
	

3-Thioalkyl Polythiophenes

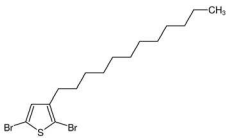
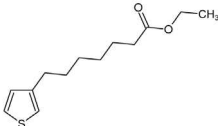
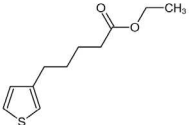
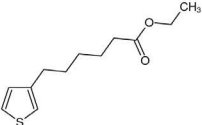
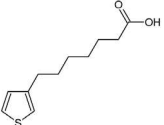

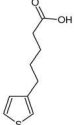

Poly[3-(hexylthio)thiophene-2,5-diyl], regioregular	
4034	
	

Poly[3-(octylthio)thiophene-2,5-diyl], regioregular	
4035	
	

I. Substituted Thiophenes

3-Butylthiophene		3-Hexylthiophene	
4101		4102	
25g \$390		25g \$290	
50g \$690		50g \$560	
3-Octylthiophene		3-Decylthiophene	
4103		4104	
25g \$390		25g \$390	
50g \$690		50g \$690	
3-Dodecylthiophene		2,2'-Bithiophene	
4105		4106	
25g \$390		25g \$290	
50g \$690		50g \$540	
3,3'-Bithiophene		2,2':5',2''-Terthiophene	
4107		4108	
25g \$1,250		25g \$1,250	
50g \$2,400		50g \$2,400	
Di-2-thienyl ketone		4-oxo-4-(2-thienyl)butyric acid	
4109		4115b	
25g \$490		1g \$490	
50g \$940		5g \$1,400	

5-oxo-5-(2-thienyl)valeric acid		6-oxo-6-(2-thienyl)hexanoic acid	
4115c		4115d	
1g \$490		1g \$490	
5g \$1,400		5g \$1,400	
7-oxo-7-(2-thienyl)heptanoic acid		8-oxo-8-(2-thienyl)octanoic acid	
4115e		4115f	
1g \$490		1g \$490	
5g \$1,400		5g \$1,400	
3-phenylthiophene		3-Cyclohexylthiophene	
4116		4117	
3-cyclohexyl-4-methylthiophene		3-cyclopentylthiophene	
4118		4119	
2,5-Dibromo-3-butylthiophene		2,5-Dibromo-3-hexylthiophene	
4122		4123	
2,5-Dibromo-3-octylthiophene		2,5-Dibromo-3-decylthiophene	
4124		4125	

2,5-Dibromo-3-dodecylthiophene		Ethyl 7-(3-thienyl)heptanoate	
4126		4128	
		1g \$240 5g \$990 10g \$1,400	
Ethyl 5-(3-thienyl)pentanoate		Ethyl 6-(3-thienyl)hexanoate	
4129		4130	
1g \$240 5g \$990 10g \$1,400		1g \$240 5g \$990 10g \$1,400	
7-(3-Thienyl)heptanoic acid		6-(3-Thienyl)hexanoic acid	
4131		4132	
1g \$240 5g \$990 10g \$1,400		1g \$240 5g \$990 10g \$1,400	
5-(3-Thienyl)pentanoic acid		4-(3-Thienyl)butyric acid	
4133		4134	
1g \$240 5g \$990 10g \$1,400		1g \$240 5g \$990 10g \$1,400	

Please call us or email info@riekemts.com for your specific requirements and additional pricing.

I. Functionalized Benzophenones

Pricing:

1g/ \$95

2g/ \$145

5g/ \$295

10g/ \$495

25g/ \$950

Compounds with *:

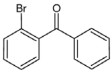
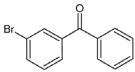
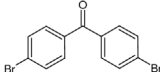
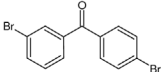
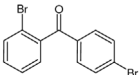
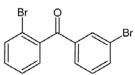
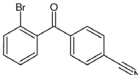
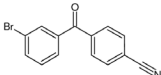
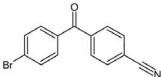
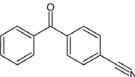
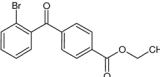
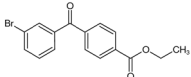
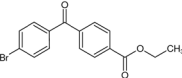
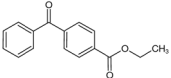
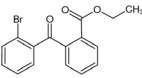
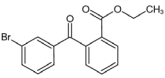
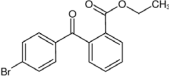
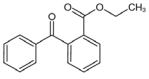

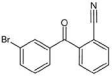
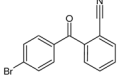

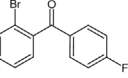
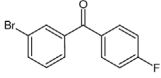
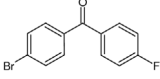

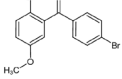
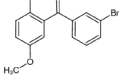
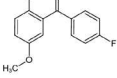
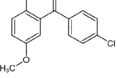
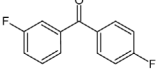
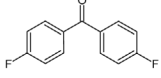
1g/ \$240

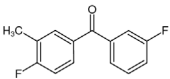
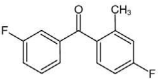
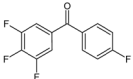
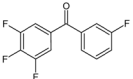
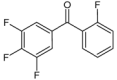
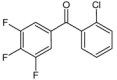
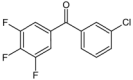
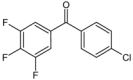
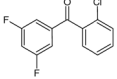
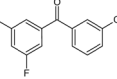
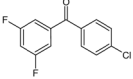
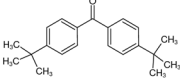
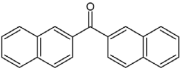
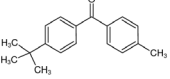
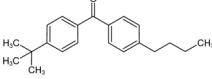
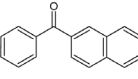
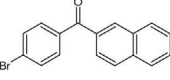
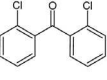
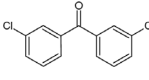
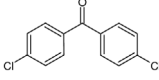
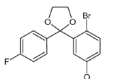
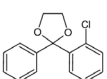

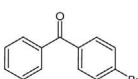
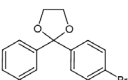
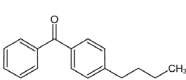
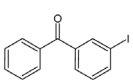
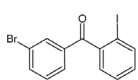
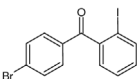
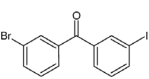
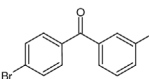
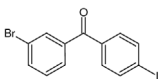
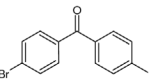
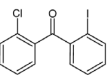
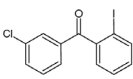
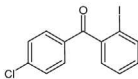
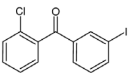
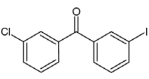
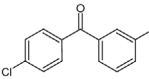
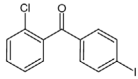
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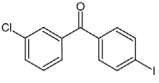
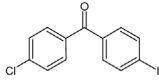
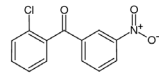
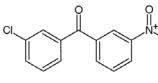
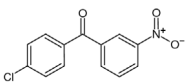
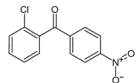
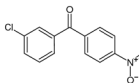
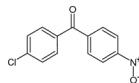
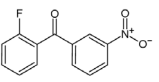
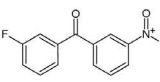
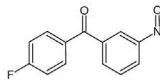
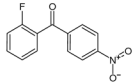
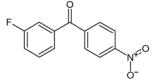
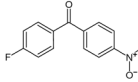
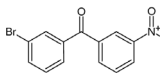
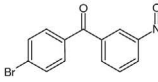
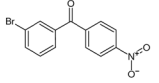
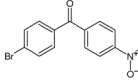
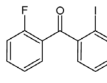
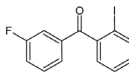
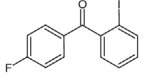
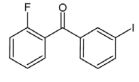
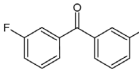
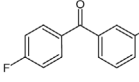
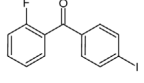
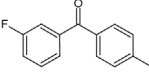
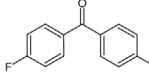
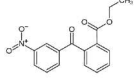
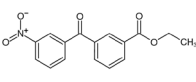
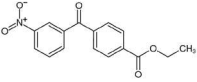
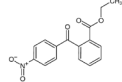
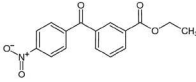
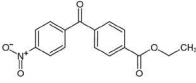
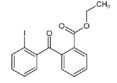
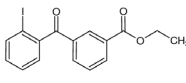
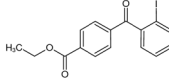
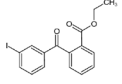
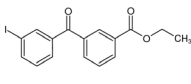
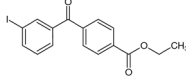
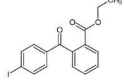
5g/ \$790

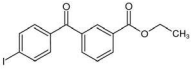
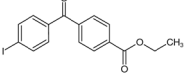
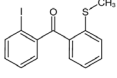
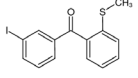
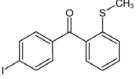
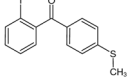
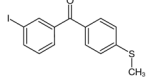
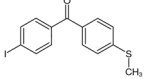
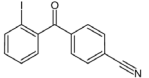
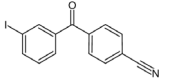
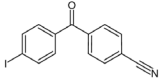
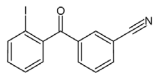
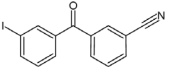
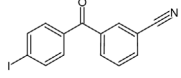

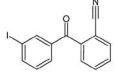
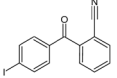
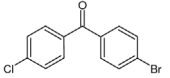
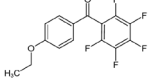
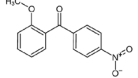
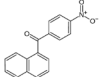
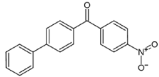
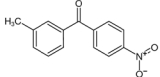
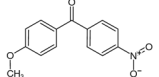
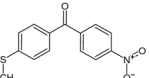
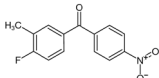
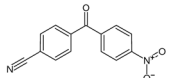
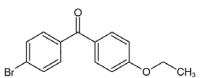
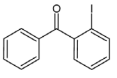
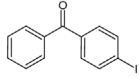
10g/ \$1,400

25g/ \$2,800

 5001	 5002	 5003	 5004
 5005	 5006	 5007*	 5008*
 5009*	 5010*	 5011*	 5012*
 5013*	 5014*	 5015*	 5016*
 5017*	 5018*	 5019*	 5020*
 5021*	 5022*	 5023*	 5024*
 5025	 5026*	 5027*	 5028*
 5030*	 5031*	 5035	 5036*

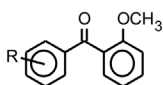
 5038	 5039	 5040*	 5041*
 5042*	 5043*	 5044	 5045
 5046	 5047	 5048	 5052
 5053	 5054	 5055	 5056
 5057	 5058*	 5059	 5060
 5061*	 5062*	 5063*	 5065
 5066*	 5067	 5068*	 5069*
 5070*	 5071	 5072	 5073
 5074	 5075*	 5076*	 5077*
 5078	 5079*	 5080	 5081*

 5082	 5083	 5086*	 5087*
 5088*	 5089*	 5090	 5091
 5095*	 5096*	 5097*	 5098*
 5099	 5100	 5101*	 5102*
 5103	 5104*	 5108*	 5109*
 5110*	 5111*	 5112*	 5113
 5114*	 5115	 5116	 5120*
 5121*	 5122*	 5123*	 5124*
 5125*	 5126*	 5127*	 5128*
 5129*	 5130*	 5131*	 5132*

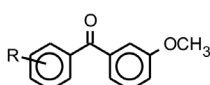
 5133*	 5134*	 5138	 5139*
 5140*	 5141*	 5142*	 5143*
 5144*	 5145*	 5146*	 5147*
 5148*	 5149*	 5150*	 5151*
 5152*	 5161	 5162	 5163*
 5164*	 5165*	 5166*	 5168*
 5169*	 5170*	 5171*	 5172
 5173	 5174		

For ordering 5049 thru 5051 specify the R group desired using the 2-digit code from the chart (eg: 5049-05 = 2,2'-Dimethoxybenzophenone).

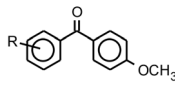
-01 Hydrogen	-11 2-carboethoxy	-21 4-chloro	-32 4-bromo-3-fluoro
-02 2-methyl	-12 3-carboethoxy	-22 3-fluoro	-33 4-chloro-3-fluoro
-03 3-methyl	-13 4-carboethoxy	-23 4-fluoro	-34 3-chloro-4-fluoro
-04 4-methyl	-14 2-thiomethyl	-25 4-n-pentyl	-35 2-bromo
-05 2-methoxy	-15 4-thiomethyl	-26 2,3-dimethyl	-36 2-chloro
-06 3-methoxy	-16 2-ethyl	-27 2,4-dimethyl	-37 2-fluoro
-07 4-methoxy	-17 4-ethyl	-28 2,5-dimethyl	-43 2-trifluoromethyl
-08 2-cyano	-18 3-bromo	-29 2,6-dimethyl	-44 3-trifluoromethyl
-09 3-cyano	-19 4-bromo	-30 3,4-dimethyl	-45 4-trifluoromethyl
-10 4-cyano	-20 3-chloro	-31 3,5-dimethyl	



5049-R *



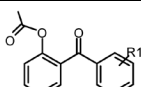
5050-R *



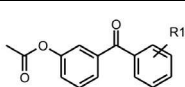
5051-R *

For ordering 5175 thru 5218, specify the R group desired using the 2-digit code from the chart below

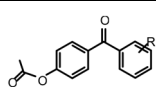
01 Hydrogen	15 3-Chloro	32 4-Isopropyl	36f 4-Heptyloxy	50 2,4-Dimethoxy
02 2-Methoxy	16 4-Chloro	33 4-Isopropoxy	37 2,3-Difluoro	51 2,5-Dimethoxy
03 3-Methoxy	17 2-Bromo	34 4-Tert-butyl	38 2,4-Difluoro	52 2,6-Dimethoxy
04 4-Methoxy	18 3-Bromo	35a 4-Ethyl	39 2,5-Difluoro	53 3,4-Dimethoxy
05 2-Methyl	19 4-Bromo	35b 4-Propyl	40 2,6-Difluoro	54 3,5-Dimethoxy
06 3-Methyl	20 2-Iodo	35c 4-Butyl	41 3,4-Difluoro	55 2,3-Dimethyl
07 4-Methyl	21 3-Iodo	35d 4-Pentyl	42 3,5-Difluoro	56 2,4-Dimethyl
08 2-Trifluoromethyl	22 4-Iodo	35e 4-Hexyl	43 2,3-Dichloro	57 2,5-Dimethyl
09 3-Trifluoromethyl	24 3-Cyano	35f 4-Heptyl	44 2,4-Dichloro	58 2,6-Dimethyl
10 4-Trifluoromethyl	25 4-Cyano	36a 4-Ethoxy	45 2,5-Dichloro	59 3,4-Dimethyl
11 2-Fluoro	27 3-Phenoxy	36b 4-Propoxy	46 2,6-Dichloro	60 3,5-Dimethyl
12 3-Fluoro	28 4-Phenoxy	36c 4-Butoxy	47 3,4-Dichloro	61 3,4,5-Trifluoro
13 4-Fluoro	30 3-Nitro	36d 4-Pentyloxy	48 3,5-Dichloro	62 2,3,4,5,6-Pentafluoro
14 2-Chloro	31 4-Nitro	36e 4-Hexyloxy	49 2,3-Dimethoxy	63 Bis-(3,5-trifluoromethyl)



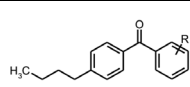
5175-R1 *



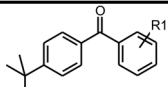
5176-R1 *



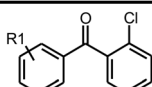
5177-R1 *



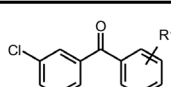
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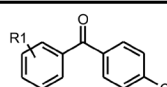
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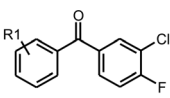
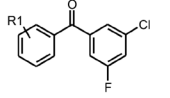
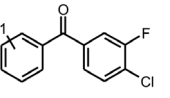
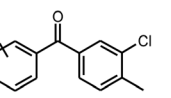
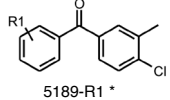
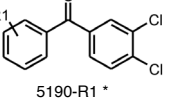
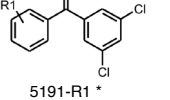
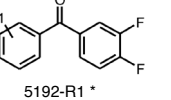
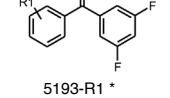
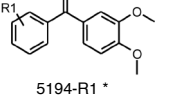
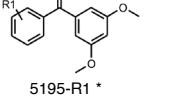
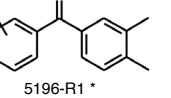
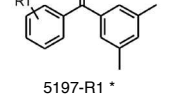
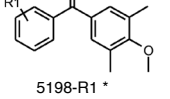
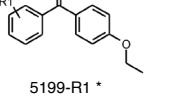
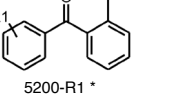
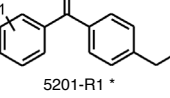
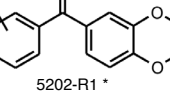
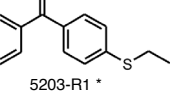
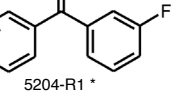
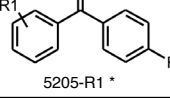
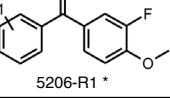
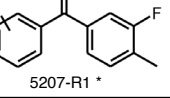
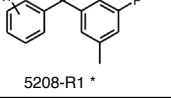
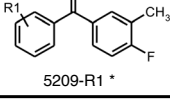
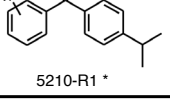
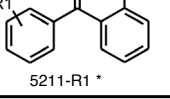
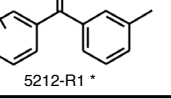
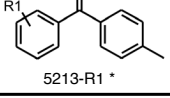
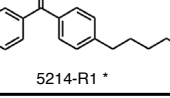
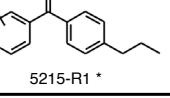
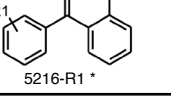
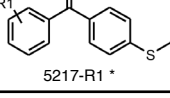
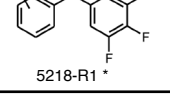
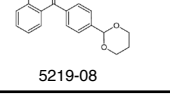
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5183-R1 *



5184-R1 *

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 5213-R1 *	 5214-R1 *	 5215-R1 *	 5216-R1 *
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I. Heterocyclic Ketones

Pricing:

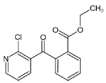
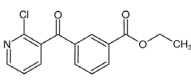
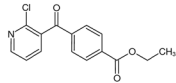
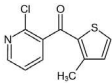
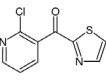
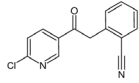
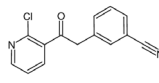
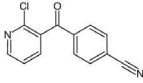
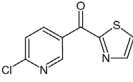

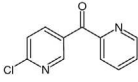
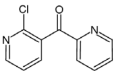
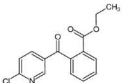
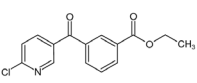
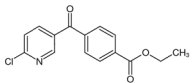
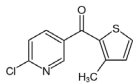
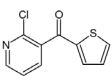
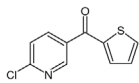
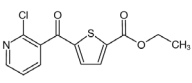
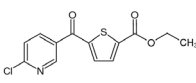
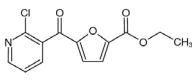
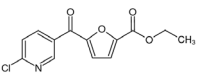
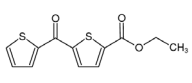
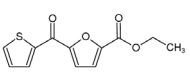
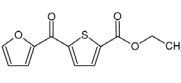
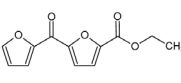
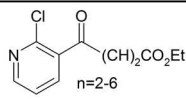
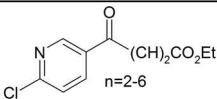
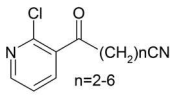
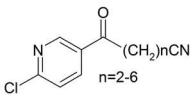
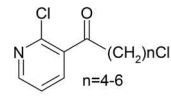
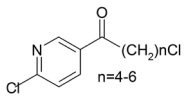
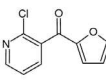
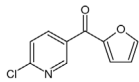
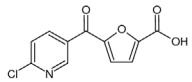
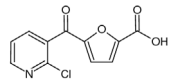
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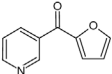
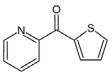
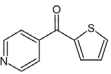
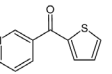
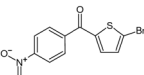
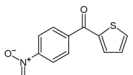
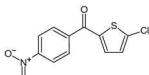
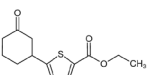

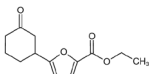
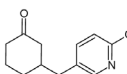
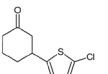
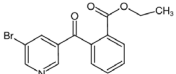
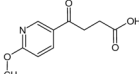
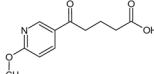
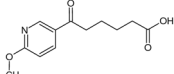
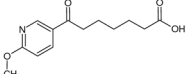
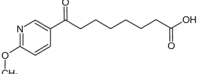
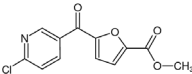
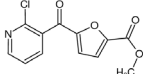
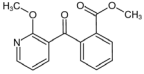
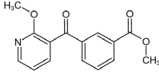
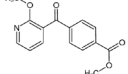
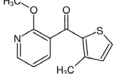
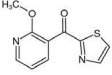
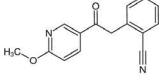
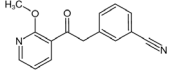
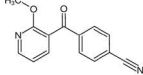
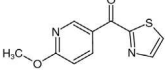
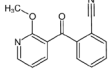
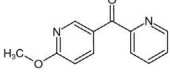
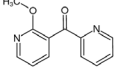
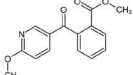
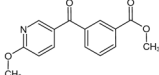
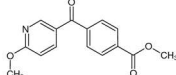
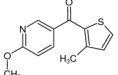
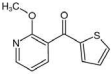
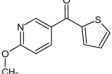
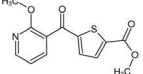
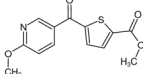
2g/ \$590

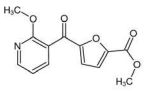
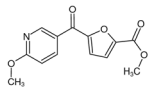
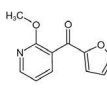
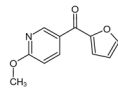
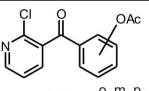
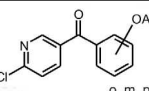
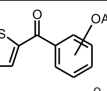
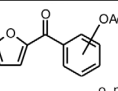
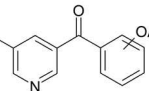
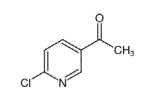
5g/ \$1,200

10g/ \$2,100

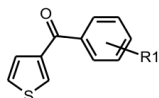
25g/ \$3,900

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 5504	 5505	 5506	 5507
 5508	 5509	 5510	 5511
 5512	 5513	 5514	 5519
 5522	 5523	 5525	 5526
 5528	 5529	 5531	 5532
 5533	 5534	 5535	 5536
 5538	 5539	 5541	 5542
 5544	 5545	 5546	 5547

 5548	 5549	 5551	 5552
 5553	 5554	 5555	 5556
 5557	 5560	 5561	 5563
 5566	 5573b	 5573c	 5573d
 5573e	 5573f	 5575	 5576
 5577	 5578	 5579	 5580
 5581	 5582	 5583	 5584
 5585	 5586	 5587	 5588
 5589	 5590	 5591	 5592
 5593	 5594	 5595	 5596

 5597	 5598	 5599	 5600
 5601	 5602	 5603	 5604
 5605	 5611-01		

When ordering 5564 or 5565 specify R1 or R3 group where indicated.

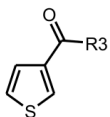


5564-R1

R1 groups available for 5564

-01 Hydrogen	-10 4-cyano	-22 3-fluoro	-34 3-chloro-4-fluoro	-53 2,3-dichloro
-02 2-methyl	-11 2-carboethoxy	-23 4-fluoro	-36 2-chloro	-54 2,4-dichloro
-03 3-methyl	-12 3-carboethoxy	-26 2,3-dimethyl	-37 2-fluoro	-55 2,5-dichloro
-04 4-methyl	-13 4-carboethoxy	-27 2,4-dimethyl	-43 2-trifluoromethyl	-56 3,4-dichloro
-05 2-methoxy	-14 2-thiomethyl	-28 2,5-dimethyl	-44 3-trifluoromethyl	-57 3,5-dichloro
-06 3-methoxy	-15 4-thiomethyl	-29 2,6-dimethyl	-45 4-trifluoromethyl	-58 2,4-difluoro
-07 4-methoxy	-18 3-bromo	-30 3,4-dimethyl	-49 4-bromo-2-fluoro	-59 3,4-difluoro
-08 2-cyano	-19 4-bromo	-31 3,5-dimethyl	-50 2-chloro-4-fluoro	-60 3,5-difluoro
-09 3-cyano	-20 3-chloro	-32 4-bromo-3-fluoro	-51 3-chloro-5-fluoro	-61 3,4,5-trifluoro
	-21 4-chloro	-33 4-chloro-3-fluoro	-52 4-chloro-2-fluoro	-62 2,6-dichloro

R3 groups available with 5565



5565-R3

-01 cyclopropyl	-06 (CH ₂) ₃ CO ₂ Et
-02 cyclobutyl	-07 (CH ₂) ₄ CO ₂ Et
-03 cyclopentyl	-08 (CH ₂) ₅ CO ₂ Et
-04 cyclohexyl	-09 (CH ₂) ₆ CO ₂ Et
-05 (CH ₂) ₂ CO ₂ Et	

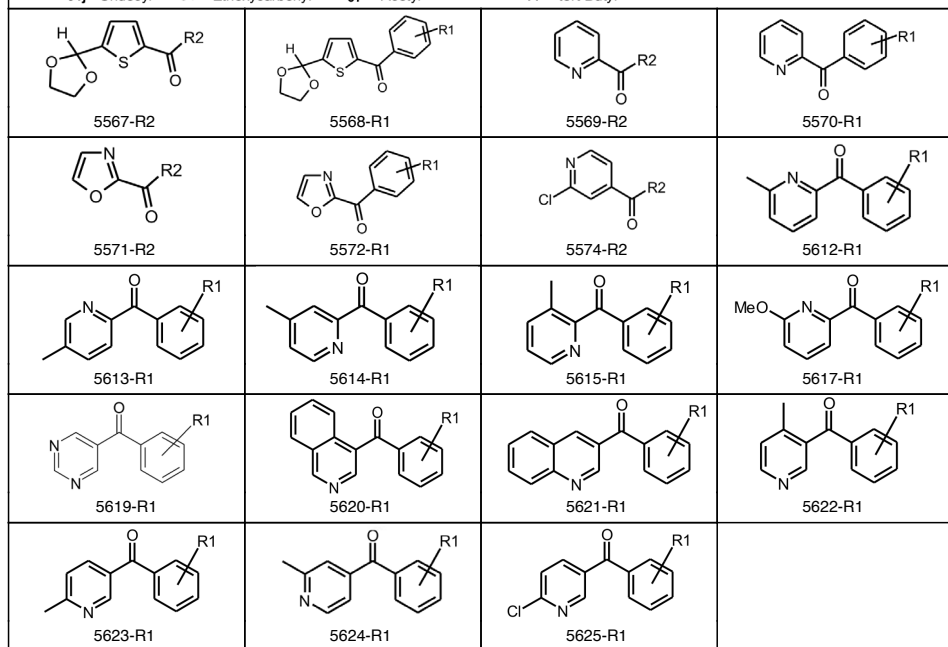
When Ordering 5567-5625 please specify 2-digit code for R1 or R2 where indicated.

R1 groups available with 5568, 5570, 5572, 5612-5625

01 Hydrogen	15 3-Chloro	32 4-Isopropyl	36f 4-Heptyloxy	50 2,4-Dimethoxy
02 2-Methoxy	16 4-Chloro	33 4-Isopropoxy	37 2,3-Difluoro	51 2,5-Dimethoxy
03 3-Methoxy	17 2-Bromo	34 4-tert-Butyl	38 2,4-Difluoro	52 2,6-Dimethoxy
04 4-Methoxy	18 3-Bromo	35a 4-Ethyl	39 2,5-Difluoro	53 3,4-Dimethoxy
05 2-Methyl	19 4-Bromo	35b 4-Propyl	40 2,6-Difluoro	54 3,5-Dimethoxy
06 3-Methyl	20 2-Iodo	35c 4-Butyl	41 3,4-Difluoro	55 2,3-Dimethyl
07 4-Methyl	21 3-Iodo	35d 4-Pentyl	42 3,5-Difluoro	56 2,4-Dimethyl
08 2-Trifluoromethyl	22 4-Iodo	35e 4-Hexyl	43 2,3-Dichloro	57 2,5-Dimethyl
09 3-Trifluoromethyl	24 3-Cyano	35f 4-Heptyl	44 2,4-Dichloro	58 2,6-Dimethyl
10 4-Trifluoromethyl	25 4-Cyano	36a 4-Ethoxy	45 2,5-Dichloro	59 3,4-Dimethyl
11 2-Fluoro	27 3-Phenoxy	36b 4-Propoxy	46 2,6-Dichloro	60 3,5-Dimethyl
12 3-Fluoro	28 4-Phenoxy	36c 4-Butoxy	47 3,4-Dichloro	61 3,4,5-Trifluoro
13 4-Fluoro	30 3-Nitro	36d 4-Pentyl	48 3,5-Dichloro	62 2,3,4,5,6-Pentafluoro
14 2-Chloro	31 4-Nitro	36e 4-Hexyloxy	49 2,3-Dimethoxy	

R2 groups available with 5567, 5569, 5571 and 5574

01 Methyl	01k Dodecyl	04a Ethoxyacetyl	07a 2-Oxopropane	12 2-Methylpropyl
01a Ethyl	02 Methoxy	04b Ethoxypropionyl	07b 3-Oxobutane	13 2,2-Dimethylpropyl
01b Propyl	02a Ethoxy	05b 2-Chloroethyl	07c 4-Oxopentane	14 1,1-Dimethoxypropyl
01c Butyl	02b Propoxy	05c 3-Chloropropyl	07d 5-Oxohexane	15 1-Methylbutyl
01d Pentyl	02c Butoxy	05d 4-Chlorobutyl	07e 6-Oxoheptane	16 2-Methylbutyl
01e Hexyl	02d Pentyl	06b Cyclopropyl	08a Cyclohexylmethyl	17 3-Methylbutyl
01f Heptyl	02e Hexyloxy	06c Cyclobutyl	08b (2-Cyclohexyl)ethyl	18 1-Ethylpropyl
01g Octyl	02f Heptyloxy	06d Cyclopentyl	08c (3-Cyclohexyl)propyl	19 1-Ethylpentyl
01h Nonyl	02g Octyloxy	06e Cyclohexyl	08d (4-Cyclohexyl)butyl	20 1-Propylbutyl
01i Decyl	03 Trifluoromethyl	06f Cycloheptyl	10 Isopropyl	21 2,4,4-Trimethylpentyl
01j Undecyl	04 Ethoxycarbonyl	07 Acetyl	11 tert-Butyl	



I. Functionalized Ketones

Pricing:

1g/ \$170

2g/ \$290

5g/ \$500

10g/ \$940

25g/ \$1,800

Compounds with *:

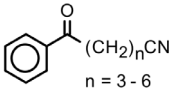
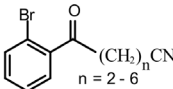
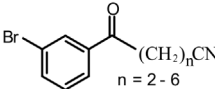
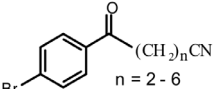
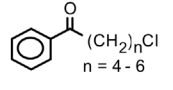
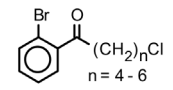
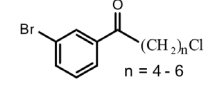
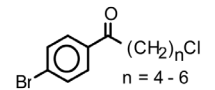
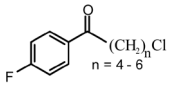
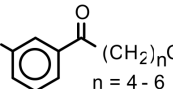
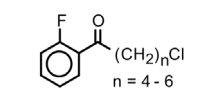
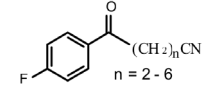
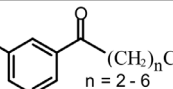
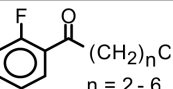
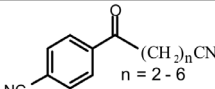
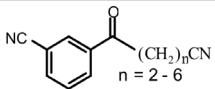
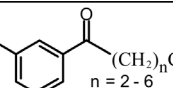
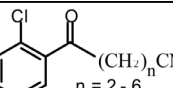
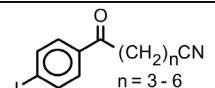
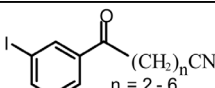
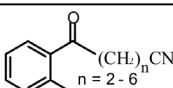
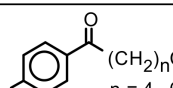
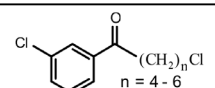
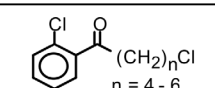
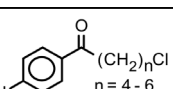
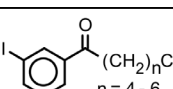
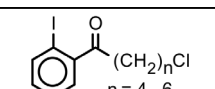
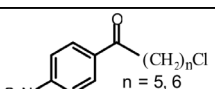
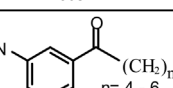
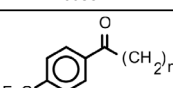
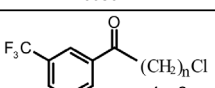
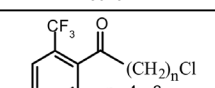
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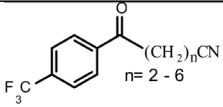
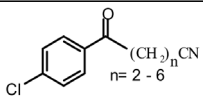
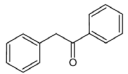
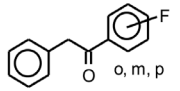
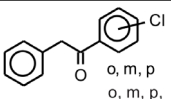
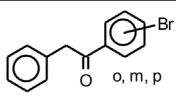
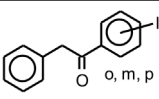
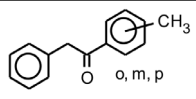
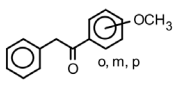
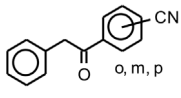
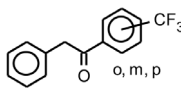
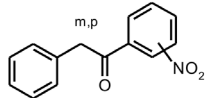
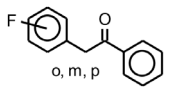
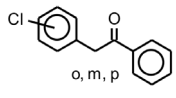
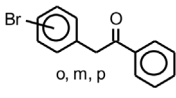
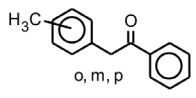
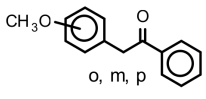
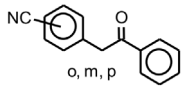
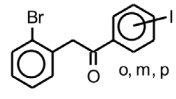
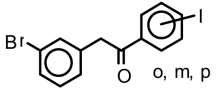
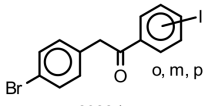
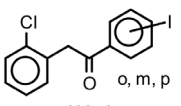
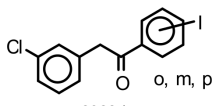
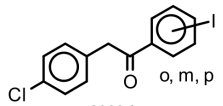
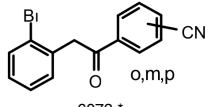
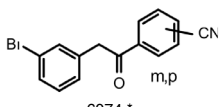
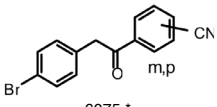
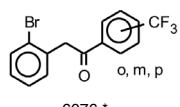
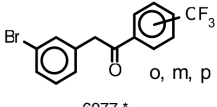
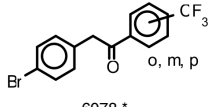
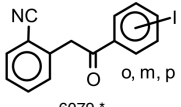
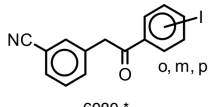
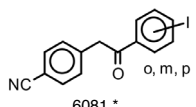
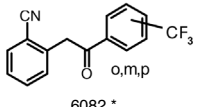
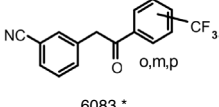
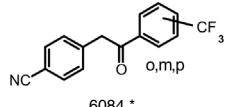
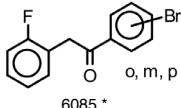
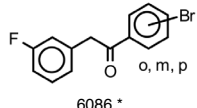
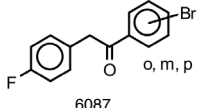
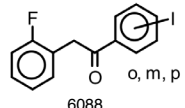
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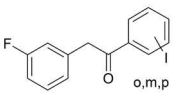
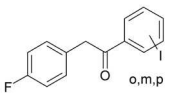
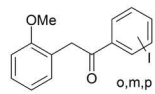
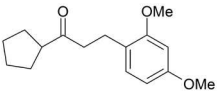
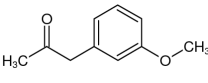
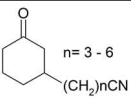
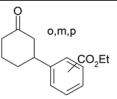
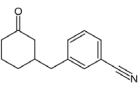
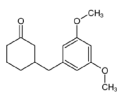


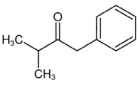
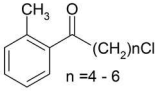
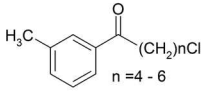
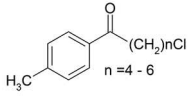


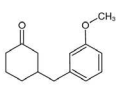
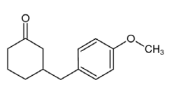

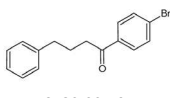
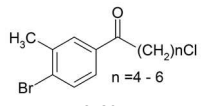
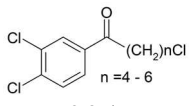
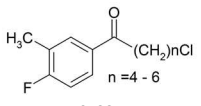
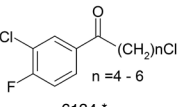
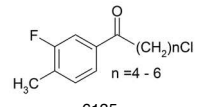
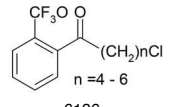
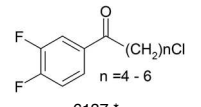
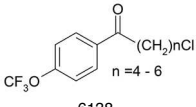
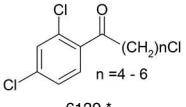
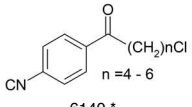
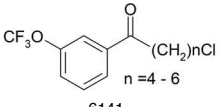
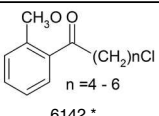
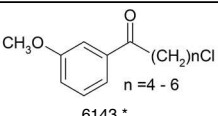
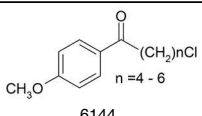
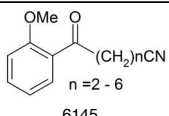
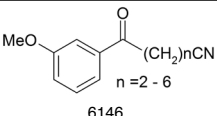
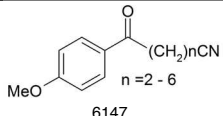
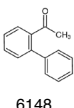
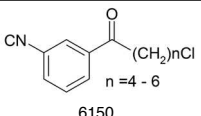
5g/ \$990

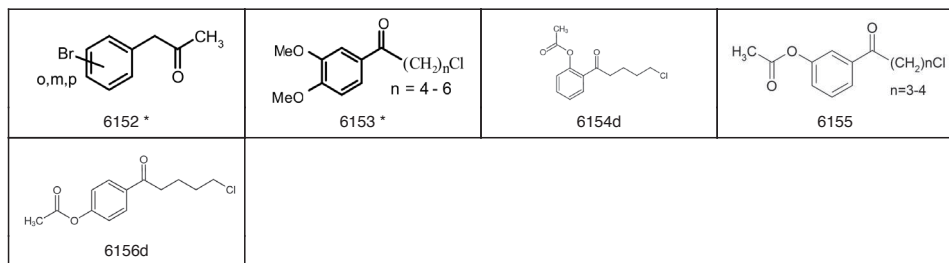
10g/ \$1,600

25g/ \$2,600

 6001	 6002 *	 6003 *	 6004 *
 6005	 6008 *	 6011 *	 6014 *
 6016	 6017 *	 6018 *	 6019
 6020	 6021 *	 6022 *	 6023 *
 6026	 6027	 6028 *	 6029 *
 6030 *	 6031	 6032	 6033 *
 6034 *	 6035 *	 6036 *	 6040
 6041	 6043 *	 6044 *	 6045 *

 <p>6046 *</p>	 <p>6047 *</p>	 <p>6048</p>	 <p>6049 o, m, p</p>
 <p>6050 o, m, p o, m, p,</p>	 <p>6051 o, m, p</p>	 <p>6052 o, m, p</p>	 <p>6053 o, m, p</p>
 <p>6054 o, m, p</p>	 <p>6055 *</p>	 <p>6056 *</p>	 <p>6057 m, p</p>
 <p>6058 o, m, p</p>	 <p>6059 o, m, p</p>	 <p>6060 o, m, p</p>	 <p>6061 o, m, p</p>
 <p>6062 o, m, p</p>	 <p>6063 *</p>	 <p>6064 *</p>	 <p>6065 *</p>
 <p>6066 *</p>	 <p>6067 *</p>	 <p>6068 *</p>	 <p>6069 *</p>
 <p>6073 *</p>	 <p>6074 *</p>	 <p>6075 *</p>	 <p>6076 *</p>
 <p>6077 *</p>	 <p>6078 *</p>	 <p>6079 *</p>	 <p>6080 *</p>
 <p>6081 *</p>	 <p>6082 *</p>	 <p>6083 *</p>	 <p>6084 *</p>
 <p>6085 *</p>	 <p>6086 *</p>	 <p>6087</p>	 <p>6088</p>

 6089	 6090	 6091 *	 6092
 6093	 6094 *	 6096 *	 6097*
 6098	 6099*	 6100*	 6101
 6102 *	 6103	 6104	 6114*
 6115	 6117	 6118	 6119*
 6130-00-19	 6130	 6131 *	 6133
 6134 *	 6135	 6136	 6137 *
 6138	 6139 *	 6140 *	 6141
 6142 *	 6143 *	 6144	 6145
 6146	 6147	 6148	 6150



Over 3000 Functionalized Ketones can be synthesized from 6120 thru 6129 with the following R groups.

Pricing:

1g/ \$330

2g/ \$580

5g/ \$1,200

10g/ \$1,900

25g/ \$3,400

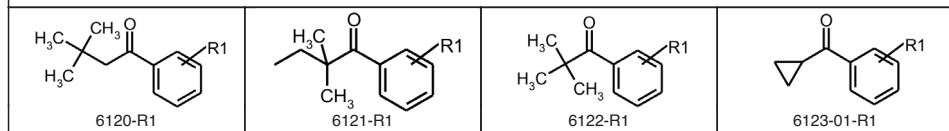
When ordering 6120 thru 6129 please specify 2-digit code for R1, R2, and R3.

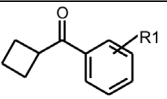
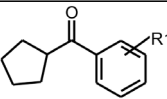
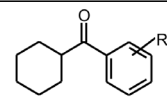
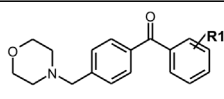
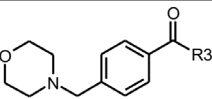
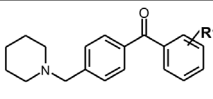
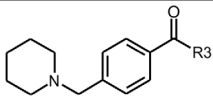
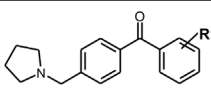
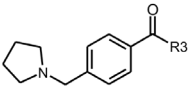
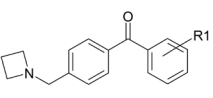
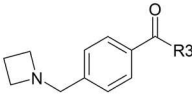
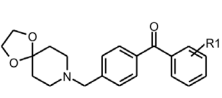
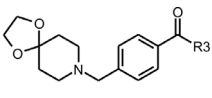
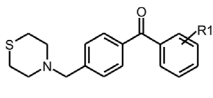
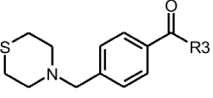
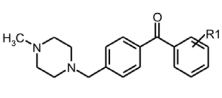
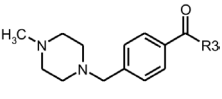
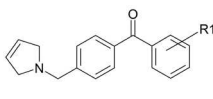
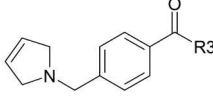
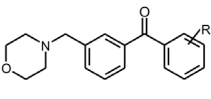
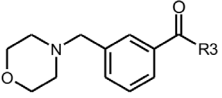
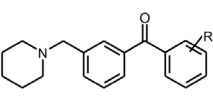
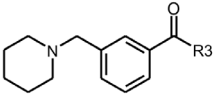
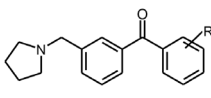
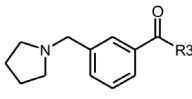
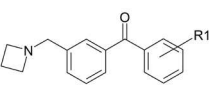
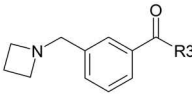
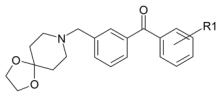
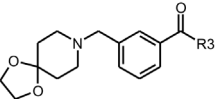
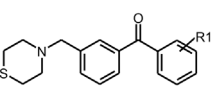
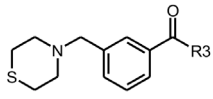
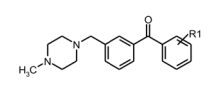
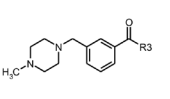
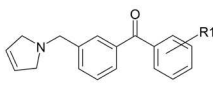
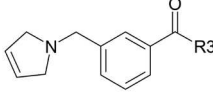
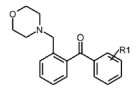
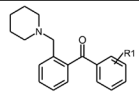
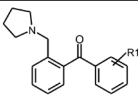
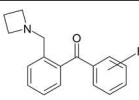
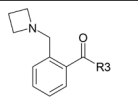
Available R1 and R2 groups (specify 2 digit number where indicated)

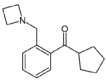
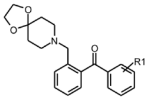
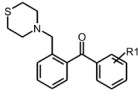
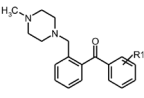
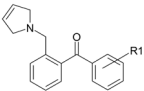
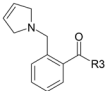
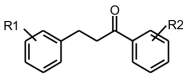
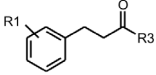
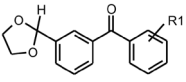
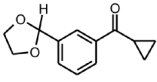
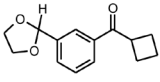
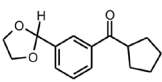
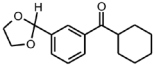
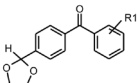
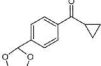
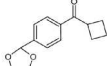
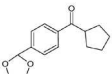
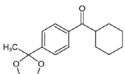
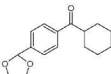
-01 Hydrogen	-13 4-carboethoxy	-29 2,6-dimethyl	-50 2-chloro-4-fluoro
-02 2-methyl	-14 2-thiomethyl	-30 3,4-dimethyl	-51 3-chloro-5-fluoro
-03 3-methyl	-15 4-thiomethyl	-31 3,5-dimethyl	-52 4-chloro-2-fluoro
-04 4-methyl	-18 3-bromo	-32 4-bromo-3-fluoro	-53 2,3-dichloro
-05 2-methoxy	-19 4-bromo	-33 4-chloro-3-fluoro	-54 2,4-dichloro
-06 3-methoxy	-20 3-chloro	-34 3-chloro-4-fluoro	-55 2,5-dichloro
-07 4-methoxy	-21 4-chloro	-36 2-chloro	-56 3,4-dichloro
-08 2-cyano	-22 3-fluoro	-37 2-fluoro	-57 3,5-dichloro
-09 3-cyano	-23 4-fluoro	-43 2-trifluoromethyl	-58 2,4-difluoro
-10 4-cyano	-26 2,3-dimethyl	-44 3-trifluoromethyl	-59 3,4-difluoro
-11 2-carboethoxy	-27 2,4-dimethyl	-45 4-trifluoromethyl	-60 3,5-difluoro
-12 3-carboethoxy	-28 2,5-dimethyl	-49 4-bromo-2-fluoro	-61 3,4,5-trifluoro
			-62 2,6-dichloro

Available R3 groups (specify 2 digit number where indicated)

-01 cyclopropyl	-06 (CH ₂) ₃ CO ₂ Et
-02 cyclobutyl	-07 (CH ₂) ₄ CO ₂ Et
-03 cyclopentyl	-08 (CH ₂) ₅ CO ₂ Et
-04 cyclohexyl	-09 (CH ₂) ₆ CO ₂ Et
-05 (CH ₂) ₂ CO ₂ Et	



 6123-02-R1	 6123-03-R1	 6123-04-R1	 6124-0100-R1
 6124-01R3-00	 6124-0200-R1	 6124-02R3-00	 6124-0300-R1
 6124-03R3-00	 6124-0400-R1	 6124-04R3-00	 6124-0600-R1
 6124-06R3-00	 6124-0700-R1	 6124-07R3-00	 6124-0800-R1
 6124-08R3-00	 6124-0900-R1	 6124-09R3-00	 6125-0100-R1
 6125-01R3-00	 6125-0200-R1	 6125-02R3-00	 6125-0300-R1
 6125-03R3-00	 6125-0400-R1	 6125-04R3-00	 6125-0600-R1
 6125-06R3-00	 6125-0700-R1	 6125-07R3-00	 6125-0800-R1
 6125-08R3-00	 6125-0900-R1	 6125-09R3-00	 6126-0100-R1
 6126-0200-R1	 6126-0300-R1	 6126-0400-R1	 6126-04R3-00

 <p>6126-0403-0</p>	 <p>6126-0600-R1</p>	 <p>6126-0700-R1</p>	 <p>6126-0800-R1</p>
 <p>6126-0900-R1</p>	 <p>6126-09R3-00</p>	 <p>6127-R100-R2</p>	 <p>6127-R1R3-00</p>
 <p>6128-00-R1</p>	 <p>6128-01-00</p>	 <p>6128-02-00</p>	 <p>6128-03-00</p>
 <p>6128-04-00</p>	 <p>6129-00-R1</p>	 <p>6129-01-00</p>	 <p>6129-02-00</p>
 <p>6129-03-00</p>	 <p>6129-03-01</p>	 <p>6129-04-00</p>	

Specify R group from table.

I. Functionalized Benzoylacetonitriles

Pricing:

1g/ \$95

2g/ \$145

5g/ \$295

10g/ \$480

25g/ \$1,050

Compounds with *:

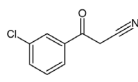
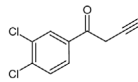
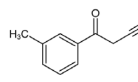
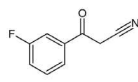
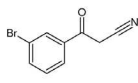
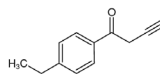
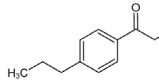
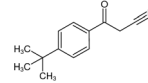
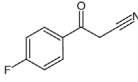
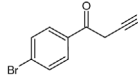
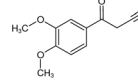
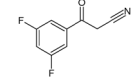
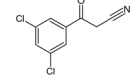
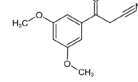
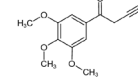
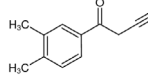
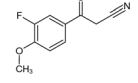
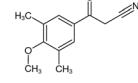

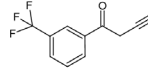
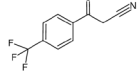
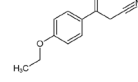
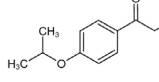
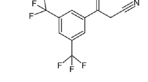
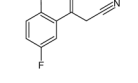
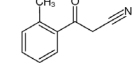
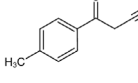
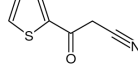
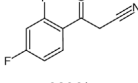

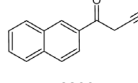

1g/ \$145

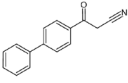
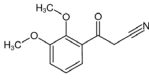
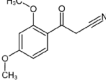

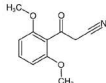
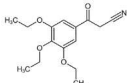
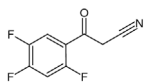
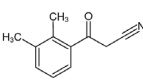
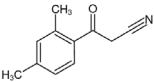

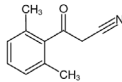
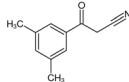
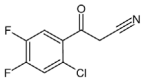
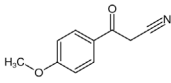
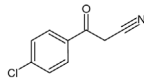
2g/ \$240

5g/ \$495

10g/ \$900

25g/ \$1,800

 6251	 6252	 6253	 6254
 6255	 6256	 6257	 6258
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 6265	 6266	 6267	 6268
 6272	 6279	 6280	 6281
 6282	 6284	 6285	 6286*
 6288*	 6291*	 6292	 6293
 6296*	 6299	 6300	 6301

 6302	 6307	 6308	 6309
 6310*	 6314	 6316	 6321
 6322	 6323	 6324	 6325
 6326	 6327	 6328	

I. Functionalized Trifluoromethyl Ketones

Pricing:

1g/ \$170

2g/ \$230

5g/ \$390

10g/ \$650

25g/ \$1,400

Compounds with *:

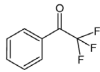
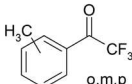
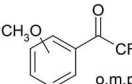
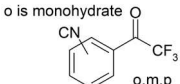
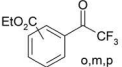
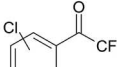
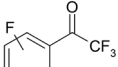
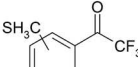
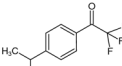
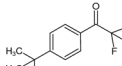
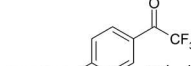
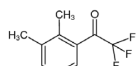
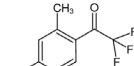

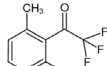
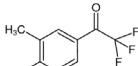
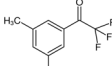

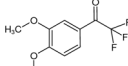
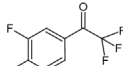
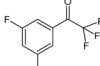
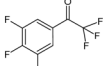
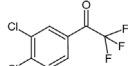
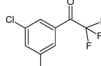
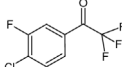
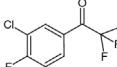

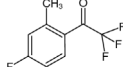
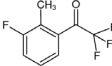
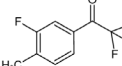
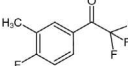
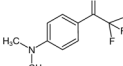
1g/ \$270


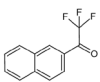



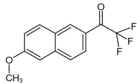

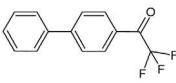
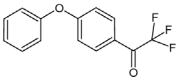
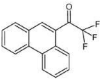
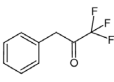
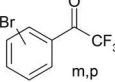
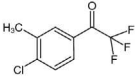
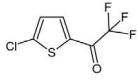
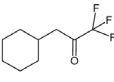
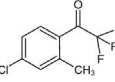
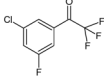
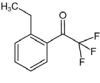
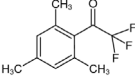
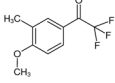

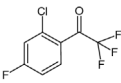
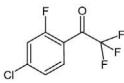
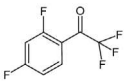
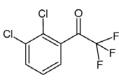
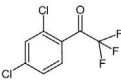

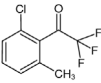

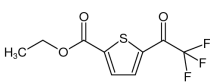
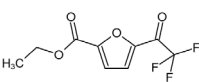
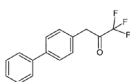
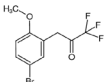
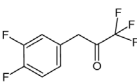
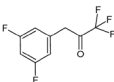
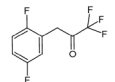
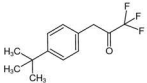
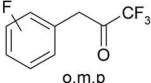
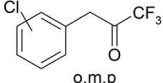
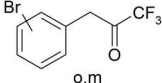
2g/ \$410

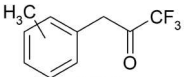
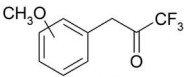
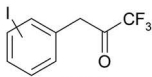
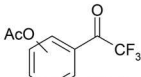
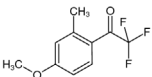
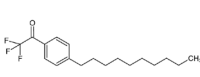
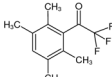
5g/ \$840

10g/ \$1,100

25g/ \$2,400

 6501	 6502 o,m,p	 6503 o,m,p	 6504 * o is monohydrate o,m,p
 6505 * o sold only as acid o,m,p	 6506 o,m,p	 6507 o,m,p	 6508 o,p
 6509-2*	 6510	 6511 n=1 - 4	 6512-1
 6512-2	 6512-3	 6512-4	 6512-5
 6512-6	 6515-1*	 6515-2*	 6516-1*
 6516-2*	 6517*	 6518-1*	 6518-2*
 6519*	 6520*	 6522*	 6523*
 6524	 6525	 6526*	 6527

 6529-1	 6529-2	 6530-1*	 6530-2*
 6531*	 6532	 6533-1*	 6533-2*
 6534*	 6535	 6536*	 6537* m,p
 6538*	 6539*	 6540*	 6541
 6542*	 6543*	 6545	 6546
 6547	 6550*	 6551*	 6554
 6555	 6556	 6557*	 6558*
 6559*	 6563*	 6564*	 6567
 6568*	 6569	 6570	 6571
 6572	 6574* o,m,p	 6575* o,m,p	 6576 o,m

 <p>o,m,p 6577</p>	 <p>o,m,p 6578</p>	 <p>o,m,p 6580</p>	 <p>o,m,p 6582</p>
 <p>6584</p>	 <p>6585-3</p>	 <p>6586*</p>	

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Compounds with *:

1g/ \$290 2g/ \$490 5g/ \$1,200 10g/ \$1,900 25g/ \$3,800

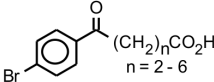
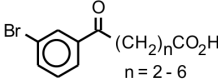
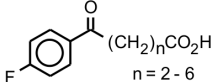
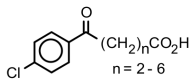
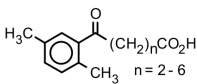
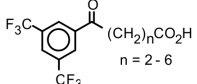
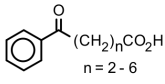
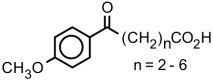
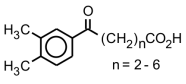
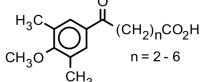
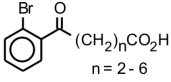
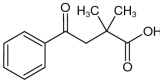
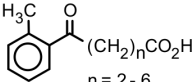
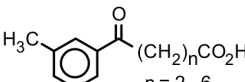
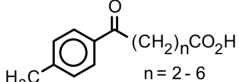
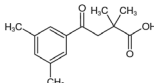
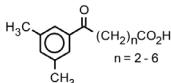
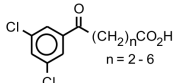
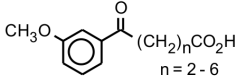
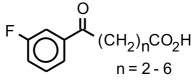
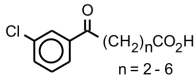
Compounds with **:

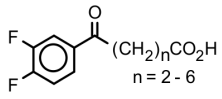
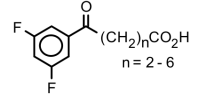
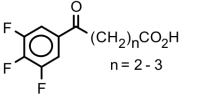
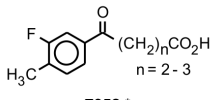
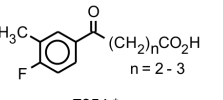
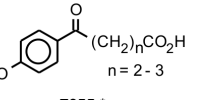
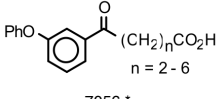
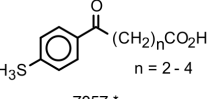
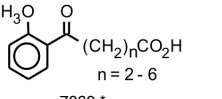
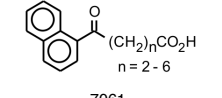
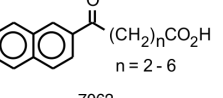
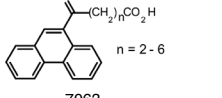
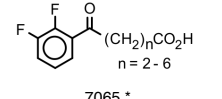
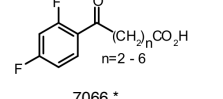
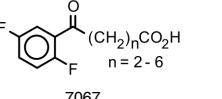
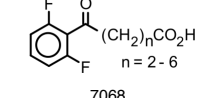
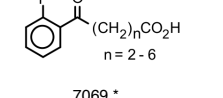
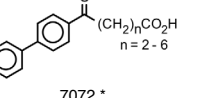
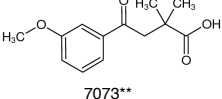
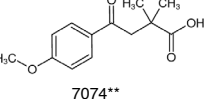
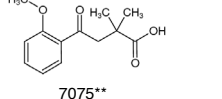
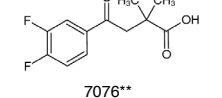
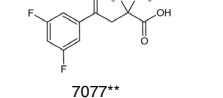
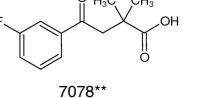
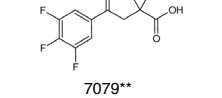
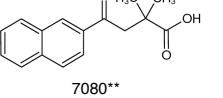
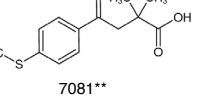
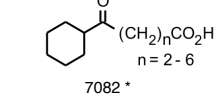
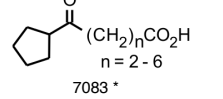
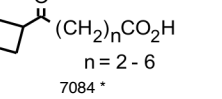
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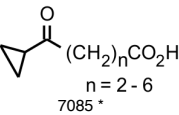
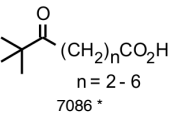
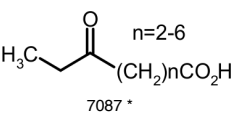
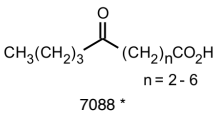
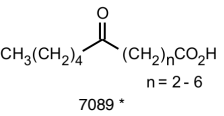
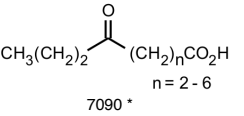
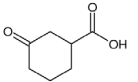
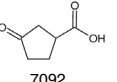
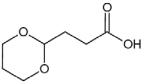
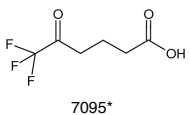
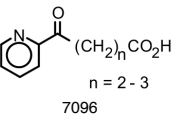
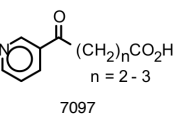
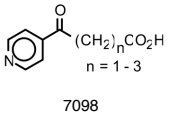
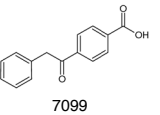
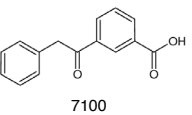
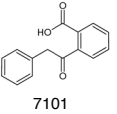
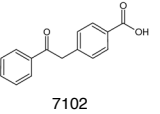
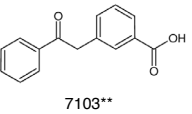
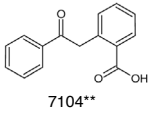
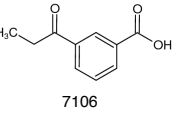
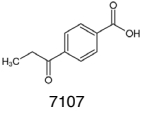
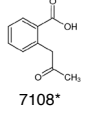
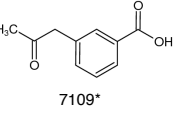
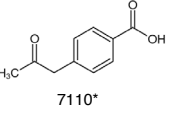
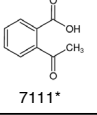
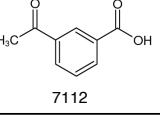
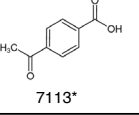
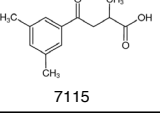
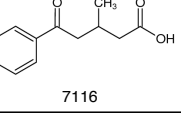
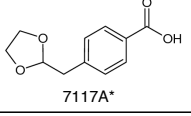
For larger quantities please contact Rieke Metals, Inc.

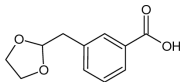

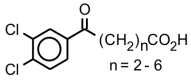
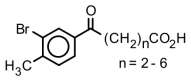
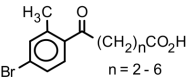
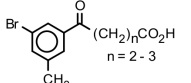
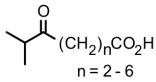
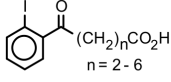
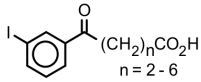
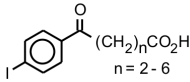
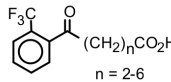
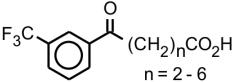
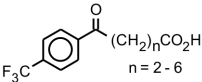
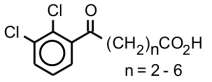
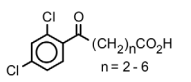
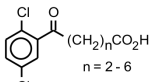
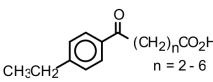
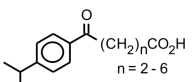
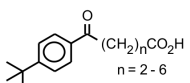
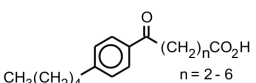
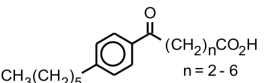
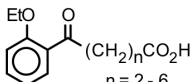
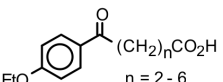
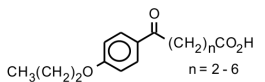
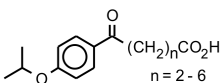
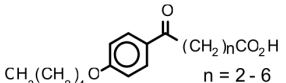
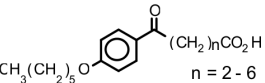
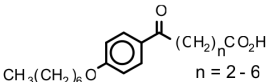
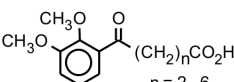
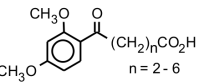
MOST corresponding esters are also available. Catalog number is 500 more than one given.

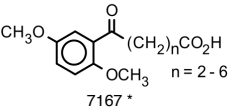
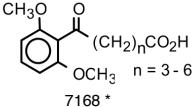
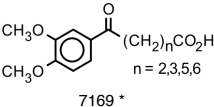
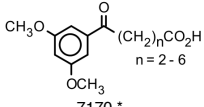
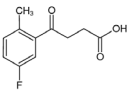
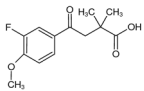
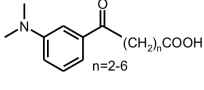
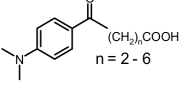
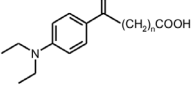
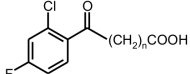
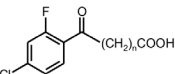
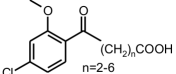
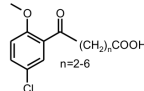
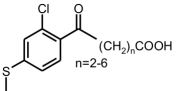
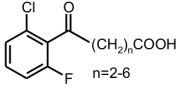
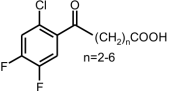
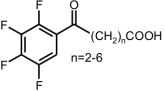
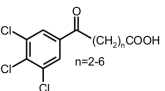
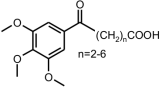
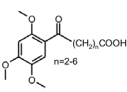
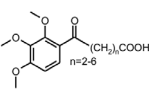
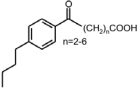
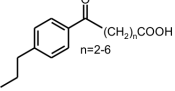
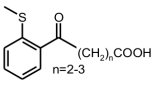
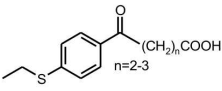
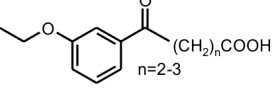
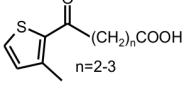
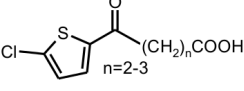
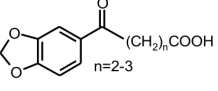
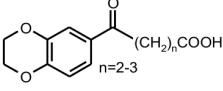
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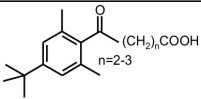
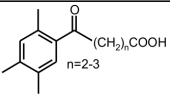
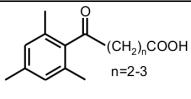
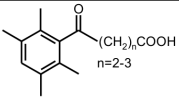
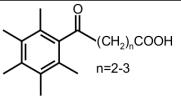
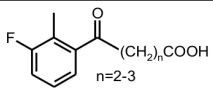
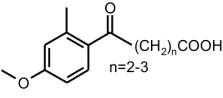
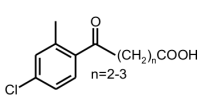
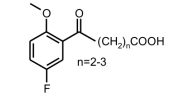
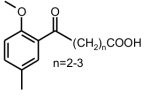
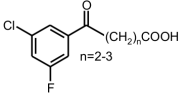
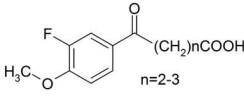
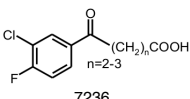
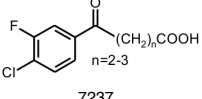
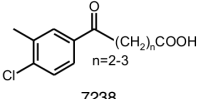
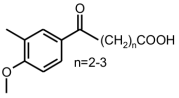
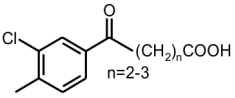
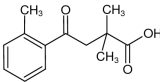
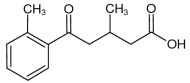
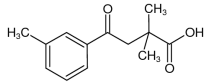
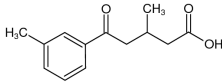
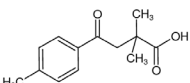
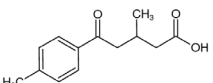
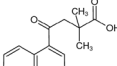
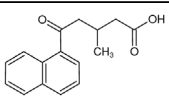
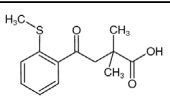
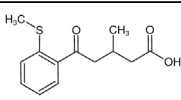
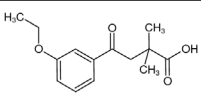
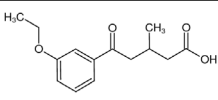
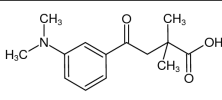
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 <p>7013</p>	 <p>7014 *</p>	 <p>7022**</p>
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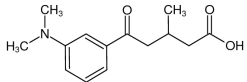
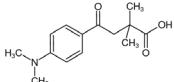
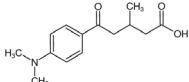
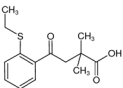
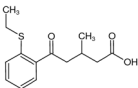
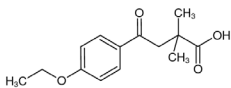
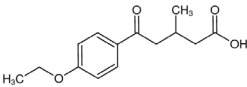
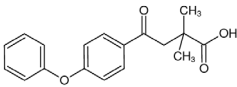
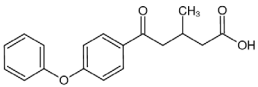
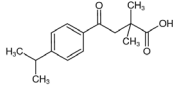
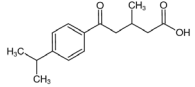
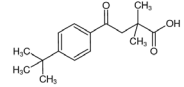
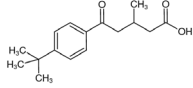
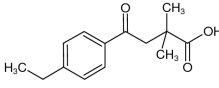
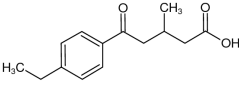
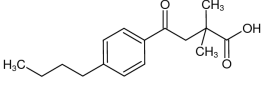
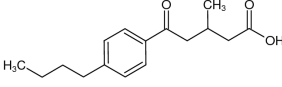
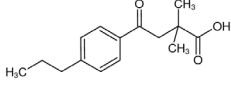
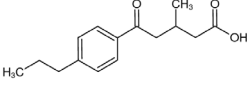
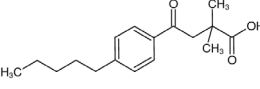
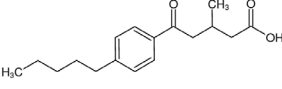
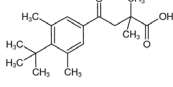
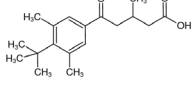
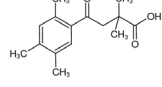
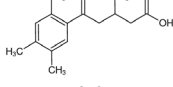
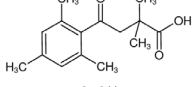
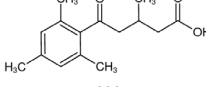
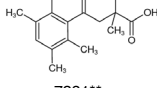
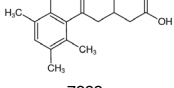
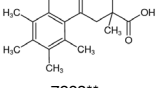
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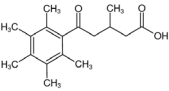
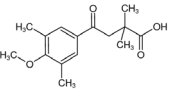
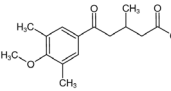
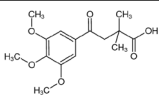
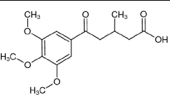
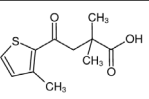
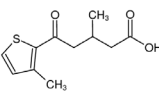
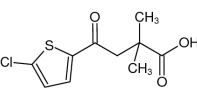
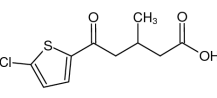
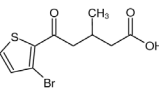
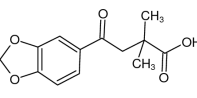
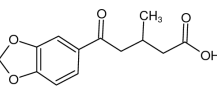
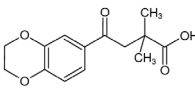
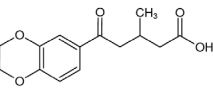
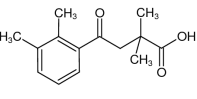
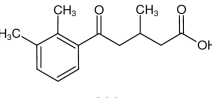
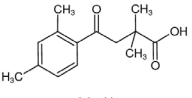
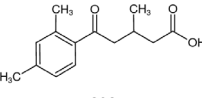
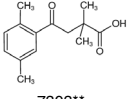
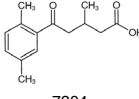
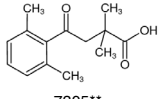
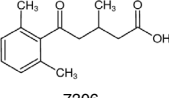
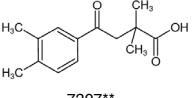
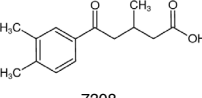
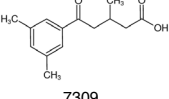
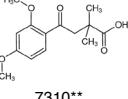
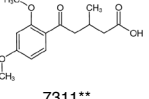
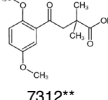
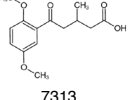
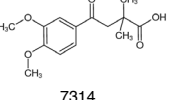
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 <p>7091**</p>	 <p>7092</p>	 <p>7093</p>
1g/\$160 2g/\$280 5g/\$590 10g/\$990		
 <p>7095*</p>	 <p>7096</p>	 <p>7097</p>
 <p>7098</p>	 <p>7099</p>	 <p>7100</p>
 <p>7101</p>	 <p>7102</p>	 <p>7103**</p>
 <p>7104**</p>	 <p>7106</p>	 <p>7107</p>
 <p>7108*</p>	 <p>7109*</p>	 <p>7110*</p>
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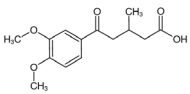
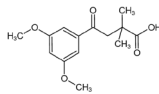
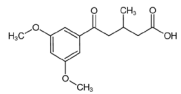
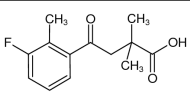
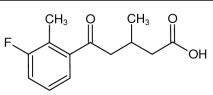
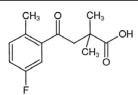
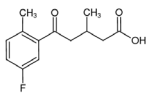
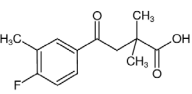
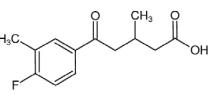
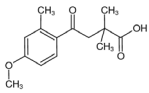
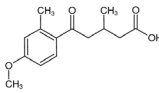
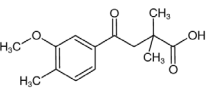
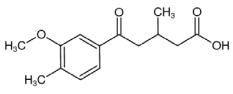
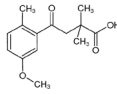
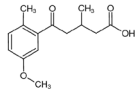
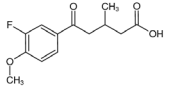
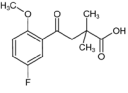
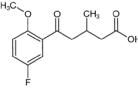
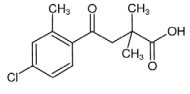
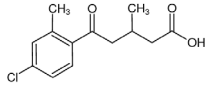
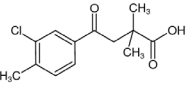
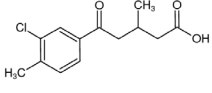
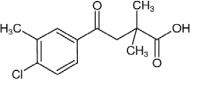
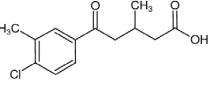
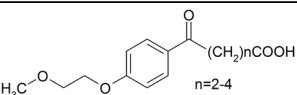
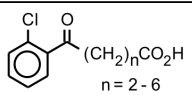
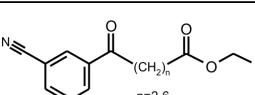
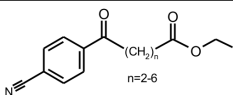
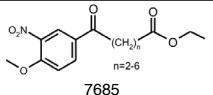
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 <p>7167 *</p>	 <p>7168 *</p>	 <p>7169 *</p>
 <p>7170 *</p>	 <p>7197b</p>	 <p>7198** (Acid only)</p>
 <p>7199</p>	 <p>7200</p>	 <p>7201</p>
 <p>7202</p>	 <p>7203</p>	 <p>7204</p>
 <p>7205</p>	 <p>7206</p>	 <p>7207</p>
 <p>7208</p>	 <p>7209</p>	 <p>7210 **</p>
 <p>7211</p>	 <p>7212</p>	 <p>7213</p>
 <p>7214</p>	 <p>7215</p>	 <p>7216</p>
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 <p>7242</p>	 <p>7243**</p>	 <p>7244</p>
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 <p>7248</p>	 <p>7249**</p>	 <p>7250</p>
 <p>7251**</p>	 <p>7252</p>	 <p>7253**</p>

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 7257**	 7258	 7259**
 7260	 7261**	 7262
 7263**	 7264	 7265**
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 7315	 7316**	 7317
 7318**	 7319	 7320**
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 7324**	 7325	 7326**
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 7334**	 7335	 7336**
 7337	 7338**	 7339
 7340 n=2-4	 7346* n = 2 - 6	 7570* n=2-6
 7571*	 7685 n=2-6	

1g/ \$180 5g/ \$580 10g/ \$790 20g/ \$1,100 25g/ \$1,800

Other Functionalized Carboxylic Acids are also available. Please call.

I. Functionalized Aldehydes and Acetals

Pricing:

1g/ \$190

2g/ \$320

5g/ \$540

10g/ \$990

25g/ \$1,900

Compounds with *:



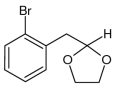
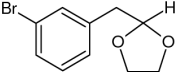
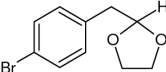
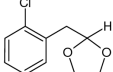
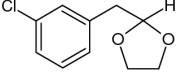
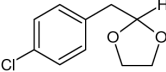
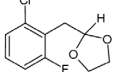

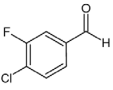
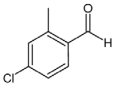
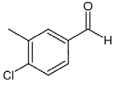

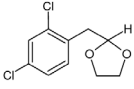
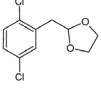
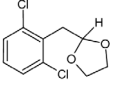
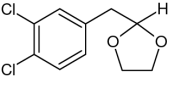
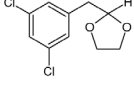

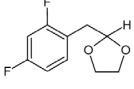

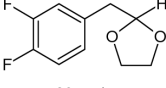
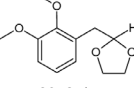

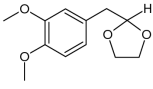
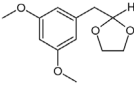
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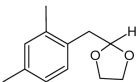

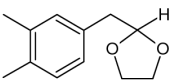
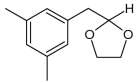


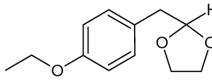
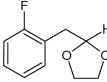
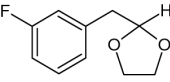
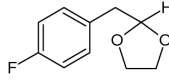
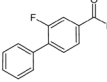
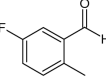
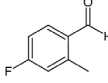


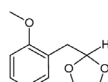
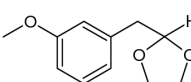
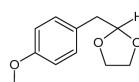

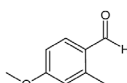
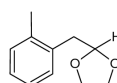
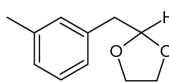
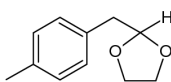

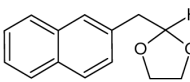
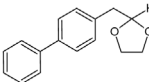
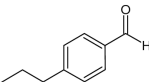
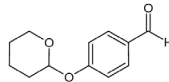

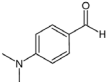
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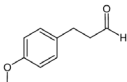
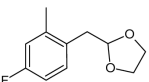
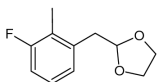
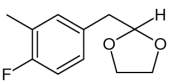
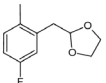
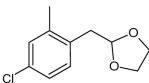
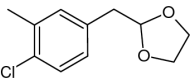
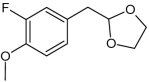
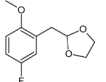
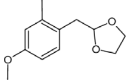
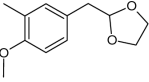
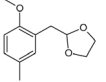
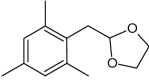
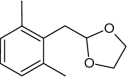
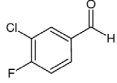


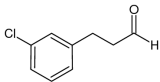
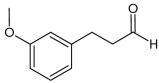
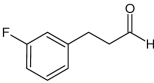
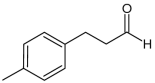
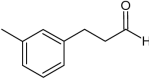
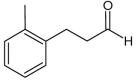
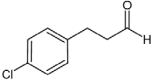
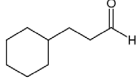
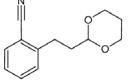
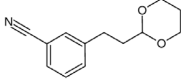
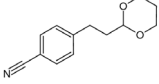
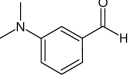
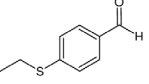
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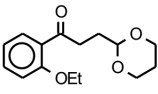
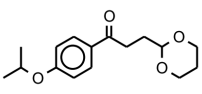
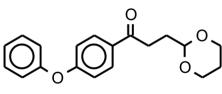
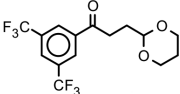
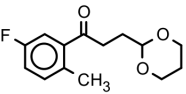
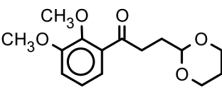
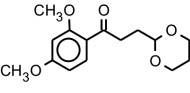
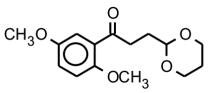
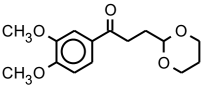
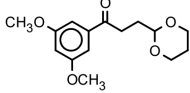
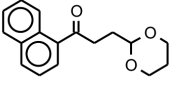
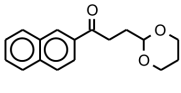
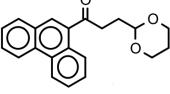
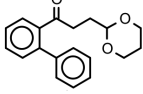
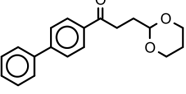
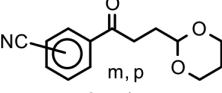
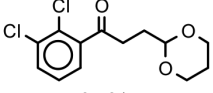
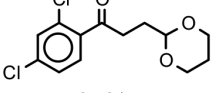
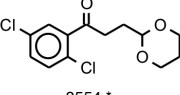
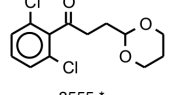
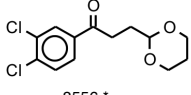
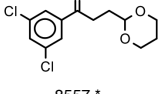
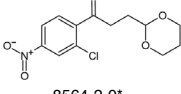
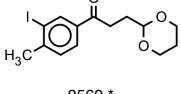
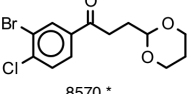
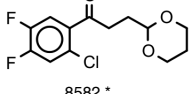
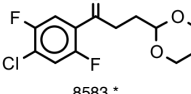
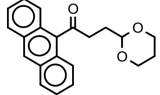
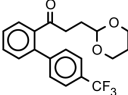
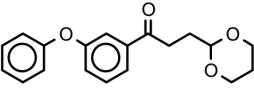
10g/ \$1,200

25g/ \$2,500

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 8041	 8042A*	 8043a*
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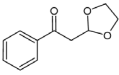
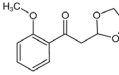
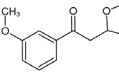
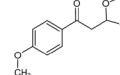
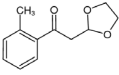
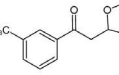
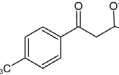
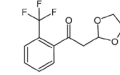
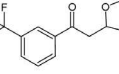
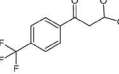
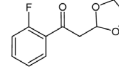
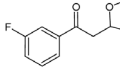
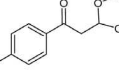
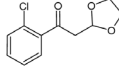
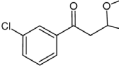
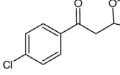
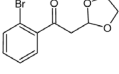
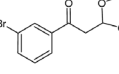
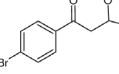
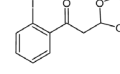
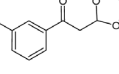
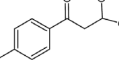
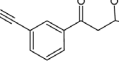
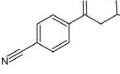
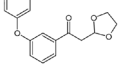
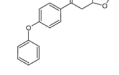
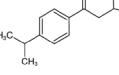
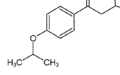
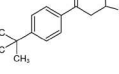
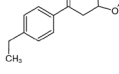
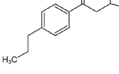
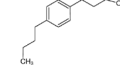
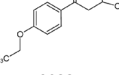
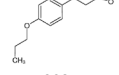
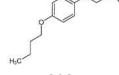
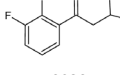
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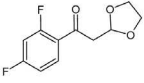
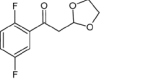
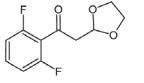
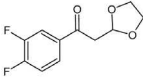
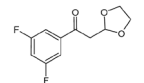
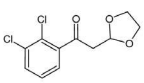
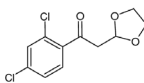
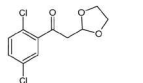
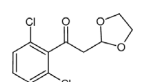
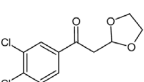
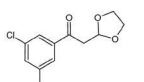
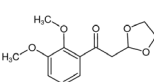
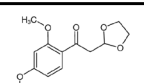
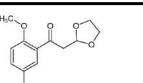
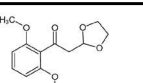
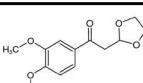
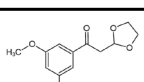
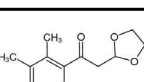
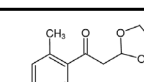
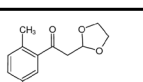
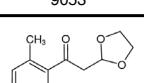
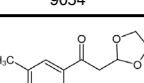
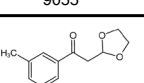
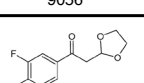
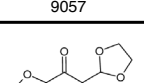
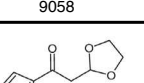
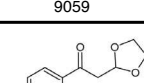
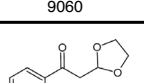
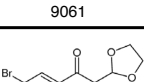
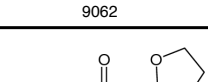
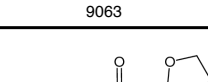
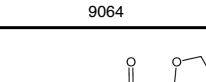
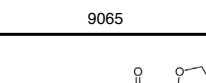
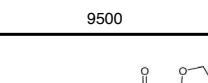
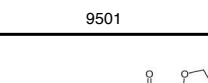
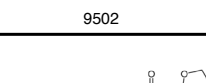
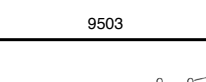
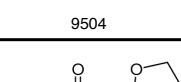
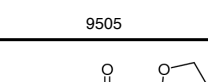
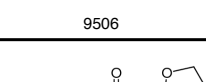
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 8100a*	 8101a*	 8102a*
 8103a*	 8104a*	 8105a*
 8106a*	 8107a*	 8108a*
 8109a*	 8111a*	 8115
 8116	 8118	 8126*
 8127*	 8129*	 8130*
 8131*	 8132*	 8133*
 8135*	 8136*	 8137*
 8138*	 8139*	 8140

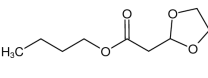
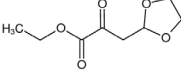
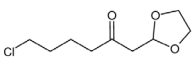
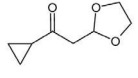
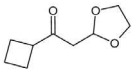
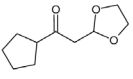
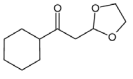
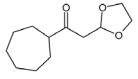
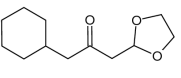
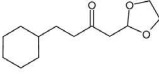
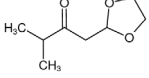
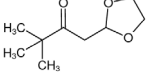
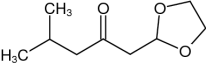
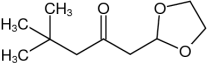
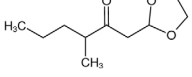
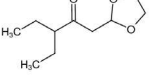
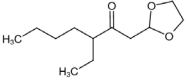
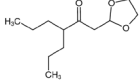
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 8537 *	 8538 *	 8539 *
 8540 *	 8541 *	 8543 *
 8544 *	 8546	 8547
 8548	 8549	 8550
 8551 * m, p	 8552 *	 8553 *
 8554 *	 8555 *	 8556 *
 8557 *	 8564-2-0*	 8569 *
 8570 *	 8582 *	 8583 *
 8585 *	 8586 *	 8587

Visit our website, www.riekemetals.com, for new product announcements.

I. 1-Keto-3-Protected Aldehydes

1g/ \$390	2g/ \$590	5g/ \$1,200	10g/ \$2,100	25g/ \$3,900
 9001	 9002	 9003	 9004	
 9005	 9006	 9007	 9008	
 9009	 9010	 9011	 9012	
 9013	 9014	 9015	 9016	
 9017	 9018	 9019	 9020	
 9021	 9022	 9023	 9024	
 9025	 9026	 9027	 9028	
 9029	 9030	 9031	 9032	
 9033	 9034	 9035	 9036	

 9037	 9038	 9039	 9040
 9041	 9042	 9043	 9044
 9045	 9046	 9047	 9048
 9049	 9050	 9051	 9052
 9053	 9054	 9055	 9056
 9057	 9058	 9059	 9060
 9061	 9062	 9063	 9064
 9065	 9500	 9501	 9502
 9503	 9504	 9505	 9506
 9507	 9508	 9509	 9510

 9511	 9513	 9514	 9515
 9516	 9517	 9518	 9519
 9520	 9521	 9522	 9523
 9524	 9525	 9526	 9527
 9528	 9529		

I. Functionalized Terminal Alkenes

Pricing:

1g/ \$190 2g/ \$290 5g/ \$690 10g/ \$1,200 25g/ \$2,400

Compounds with *:

1g/ \$290 2g/ \$400 5g/ \$990 10g/ \$1,500 25g/ \$2,600

Compounds with **:

1g/ \$390 2g/ \$550 5g/ \$1,400

Please specify X or n when ordering

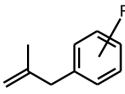
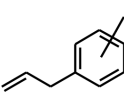
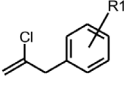
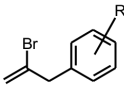
X= H, Cl, Br or CH₃ / n=a,b,c,d,e,f or g (i.e. 10001-001e is n=5)

 n=5-7 10001-001n	 n=5-7 10001-002n *	 n=5-7 10001-003n *	 n=5-7 10001-004n
 n=3-7 10002-001n	 n=3-7 10002-002n *	 n=3-7 10002-003n *	 n=3-7 10002-004n
 n=3-6 10003-001n	 n=3-6 10003-002n *	 n=3-6 10003-003n *	 n=3-6 10003-004n
 n=4-9 10004-001n	 n=4-9 10004-002n *	 n=4-9 10004-003n *	 n=4-9 10004-004n
 n=5-6 10006-001n	 n=5-6 10006-002n	 n=5-6 10006-003n	 n=5-6 10006-004n
 10007 *	 10008 *	 10009 *	 10010 *
 10011 *	 10012 *	 n=1-2 10013-001n	 n=1-2 10013-002n *
 n=1-2 10013-003n *	 n=1-2 10013-004n	 10014 *	 10015 *

 10016 *	 10017 *	 10018 *	 10019 *
 10020 *	 10021 *	 10022-001n	 10022-002n *
 10022-003n *	 10022-004n	 10023 *	 10024 *
 10053-001n	 10053-002n *	 10053-003n *	 10053-004n
 10055-131n	 10055-132n	 10055-133n	 10055-134n
 10055-141n	 10055-142n	 10055-143n	 10055-144n
 10055-151n	 10055-152n	 10055-153n	 10055-154n

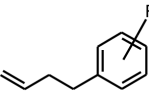
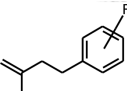
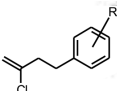
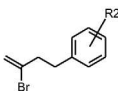
Available R1 groups (specify 2 digit number where indicated)

01 2-Bromo	25 2-Acetoxy	47 4-Phenoxy	69 3,5-Dichloro	93 5-fluoro-2-methoxy
02 3-Bromo	26 3-Acetoxy	48 4-tert-Butyl	70 2,4-Difluoro	94 2-Methoxy-5-methyl
03 4-Bromo	27 4-Acetoxy	49 4-Propyl	73 3,4-Difluoro	96 5-Chloro-2-methoxy
04 2-Chloro	28 2-Methylthio	50 4-Butyl	74 3,5-Difluoro	98 2-Chloro-6-methyl
05 3-Chloro	29 4-Methylthio	51 4-Pentyl	75 3,4,5-Trifluoro	99 3-Fluoro-4-methyl
06 4-Chloro	30 2-Trifluoromethyl	52 2,3-Dimethoxy	76 3,4,5-Trimethoxy	100 4-Fluoro-3-methyl
07 2-Methyl	31 3-Trifluoromethyl	53 2,4-Dimethoxy	77 3,5-Dimethyl-4-methoxy	101 3-Chloro-4-methyl
08 3-Methyl	32 4-Trifluoromethyl	54 2,5-Dimethoxy	78 4-tert-Butyl-2,6-dimethyl	102 3-Fluoro-4-methoxy
09 4-Methyl	33 3-N,N-dimethylamino	55 2,6-Dimethoxy	79 2,4,5-trimethyl	103 3-Chloro-4-fluoro
10 2-Cyano	34 4-N,N-dimethylamino	56 3,4-Dimethoxy	80 2,4,6-trimethyl	104 4-Chloro-3-fluoro
11 3-Cyano	35 2-Ethoxy	57 3,5-Dimethoxy	82 2,3,5,6-Tetramethyl	105 4-Chloro-3-methyl
12 4-Cyano	36 4-Ethoxy	58 2,3-Dimethyl	83 2,3,4,5,6-Pentamethyl	106 4-Methoxy-3-methyl
13 2-carboethoxy	37 2-Phenyl	59 2,4-Dimethyl	84 3-Fluoro-2-methyl	107 4-Bromo-3-fluoro
14 3-carboethoxy	38 4-Phenyl	60 2,5-Dimethyl	85 2-Cyano-3-fluoro	108 4-Cyano-3-fluoro
15 4-carboethoxy	39 3-(Tetrahydro-pyran-2-yloxy)	61 2,6-Dimethyl	86 4-Methoxy-2-methyl	109 3-Cyano-4-fluoro
16 2-Fluoro	40 4-(Tetrahydro-pyran-2-yloxy)	62 3,4-Dimethyl	87 4-Chloro-2-methyl	110 3-Chloro-5-fluoro
17 3-Fluoro	41 2-Ethyl	63 3,5-Dimethyl	88 4-Bromo-2-fluoro	111 3-Fluoro-5-methyl
18 4-Fluoro	42 4-Ethyl	64 2,3-Dichloro	89 4-Chloro-2-fluoro	112 3-Fluoro-5-methoxy
19 2-Methoxy	43 2-Isopropyl	65 2,4-Dichloro	90 2-Chloro-4-fluoro	113 2-Carboxylic acid
20 3-Methoxy	44 4-Isopropyl	66 2,5-Dichloro	91 2-fluoro-4-methyl	114 3-Carboxylic acid
21 4-Methoxy	46 4-Ethylthio	68 3,4-Dichloro	92 5-fluoro-2-methyl	115 4-Carboxylic acid

			
10005-(R1)4a	10005-(R1)1a	10005-(R1)2a *	10005-(R1)3a *

Available R2 groups (specify 2 digit number where indicated)

01 2-Bromo	14 3-carboethoxy	35 2-Ethoxy	66 2,5-Dichloro
02 3-Bromo	15 4-carboethoxy	36 4-Ethoxy	67 2,6-Dichloro
03 4-Bromo	16 2-Fluoro	37 2-Phenyl	68 3,4-Dichloro
04 2-Chloro	17 3-Fluoro	48 4-tert-Butyl	69 3,5-Dichloro
05 3-Chloro	18 4-Fluoro	52 2,3-Dimethoxy	70 2,4-Difluoro
06 4-Chloro	19 2-Methoxy	54 2,5-Dimethoxy	71 2,5-Difluoro
07 2-Methyl	20 3-Methoxy	56 3,4-Dimethoxy	72 2,6-Difluoro
08 3-Methyl	21 4-Methoxy	57 3,5-Dimethoxy	73 3,4-Difluoro
09 4-Methyl	25 2-Acetoxy	59 2,4-Dimethyl	74 3,5-Difluoro
10 2-Cyano	26 3-Acetoxy	60 2,5-Dimethyl	95 5-Bromo-2-methoxy
11 3-Cyano	27 4-Acetoxy	62 3,4-Dimethyl	113 2-Carboxylic acid
12 4-Cyano	31 3-Trifluoromethyl	63 3,5-Dimethyl	114 3-Carboxylic acid
13 2-carboethoxy	32 4-Trifluoromethyl	65 2,4-Dichloro	115 4-Carboxylic acid

			
10005-(R2)1b *	10005-(R2)4b *	10005-(R2)2b *	10005-(R2)3b *

Available R3 groups (specify 2 digit number where indicated)

05 3-Chloro

09 4-Methyl

20 3-Methoxy

06 4-Chloro

17 3-Fluoro

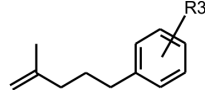
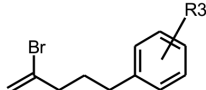
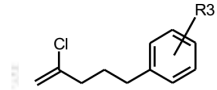
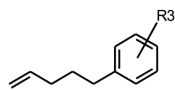
21 4-Methoxy

07 2-Methyl

18 4-Fluoro

110 3-Chloro-5-fluoro

08 3-Methyl



I. Biphenyls

Pricing:

1g/ \$190

2g/ \$290

5g/ \$490

10g/ \$890

25g/ \$1,400

Compounds with *:

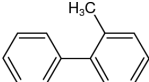
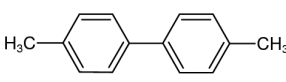
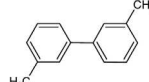
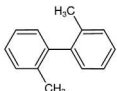
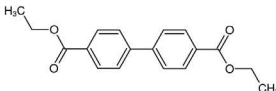
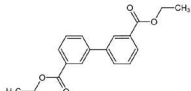

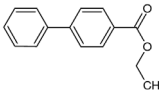
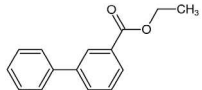
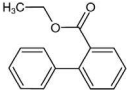
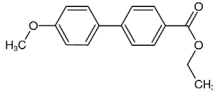
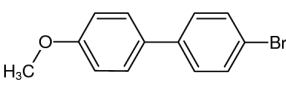
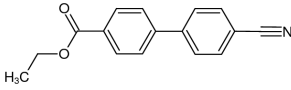
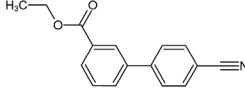
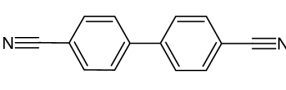
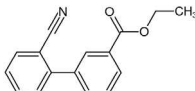
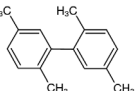
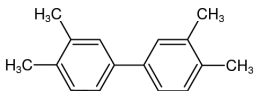
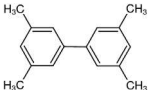
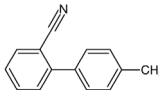
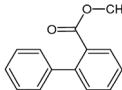
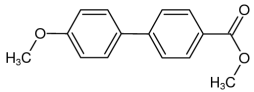
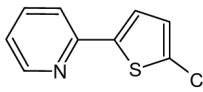
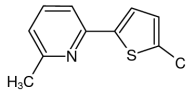
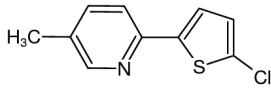
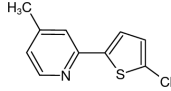
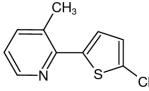
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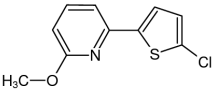
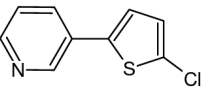
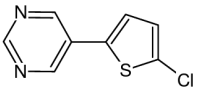

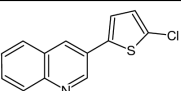
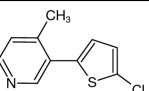
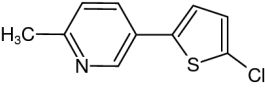
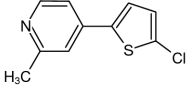
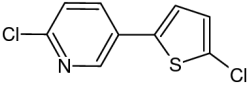
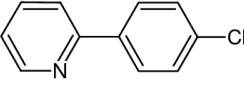
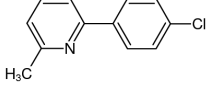
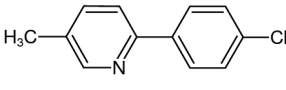
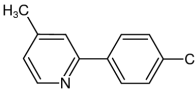
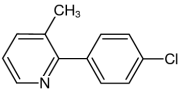
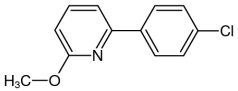
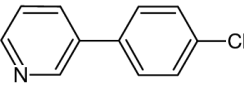
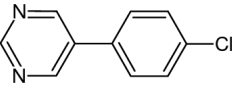

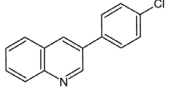
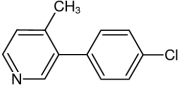
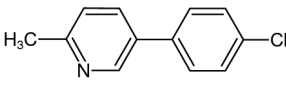
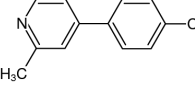
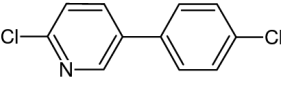
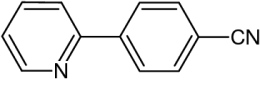
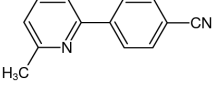
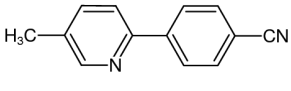
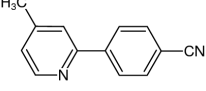
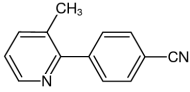
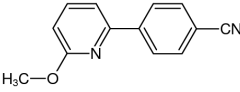
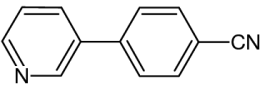
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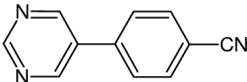
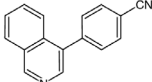
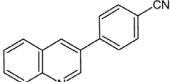
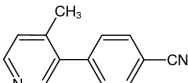
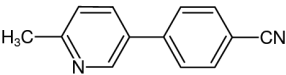
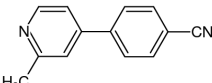
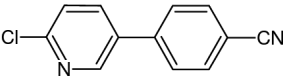
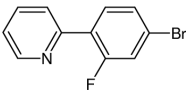
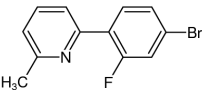
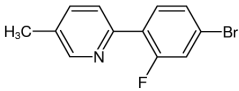
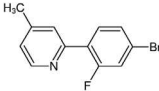
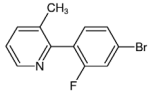
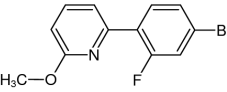
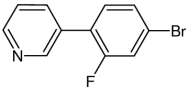
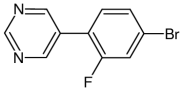

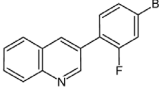
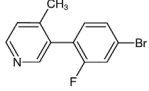
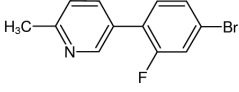
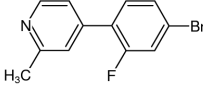
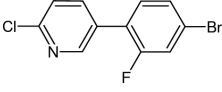
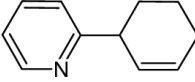
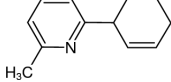
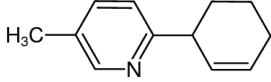
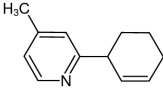
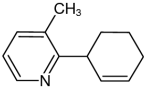
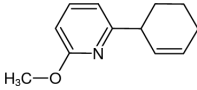
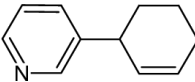
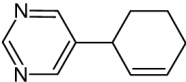

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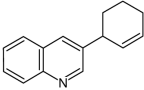
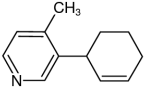
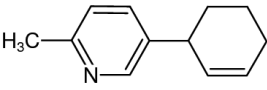
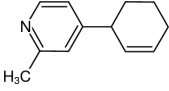
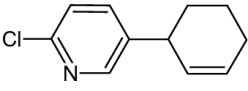
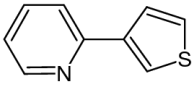
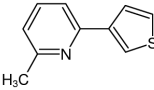
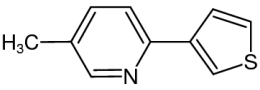
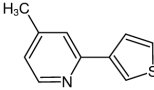
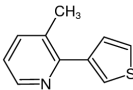
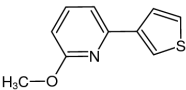
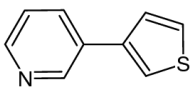
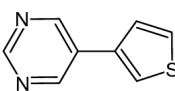

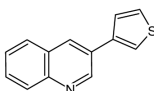
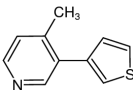
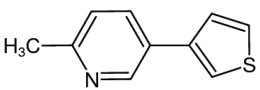
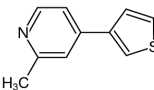
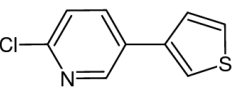
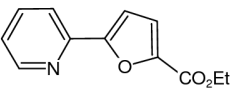
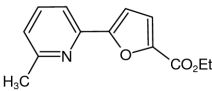
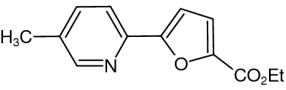
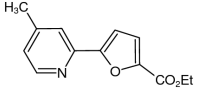
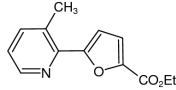
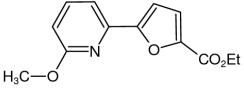
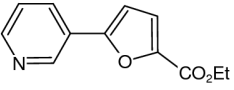
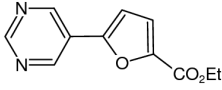
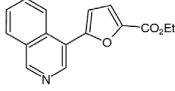
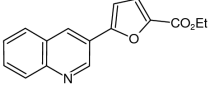
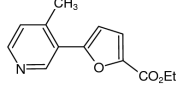
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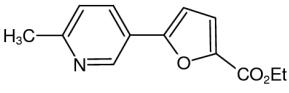
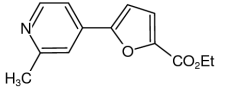
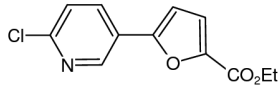
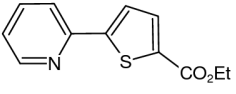
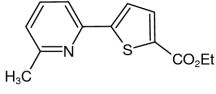
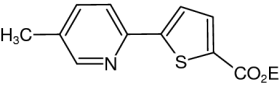
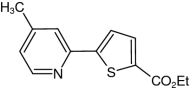
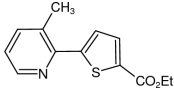
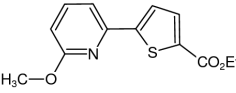
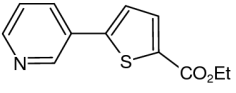
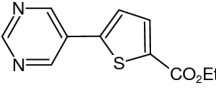
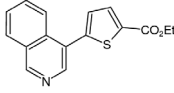
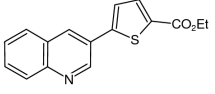
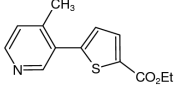
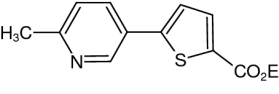
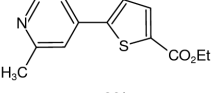
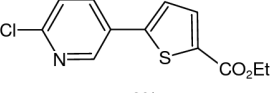
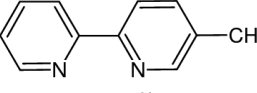
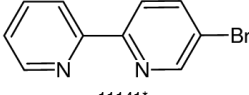
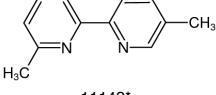
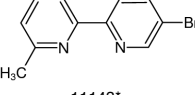
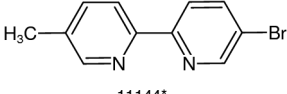
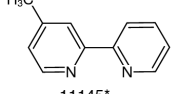
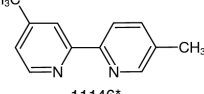
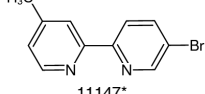
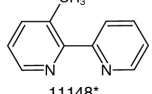
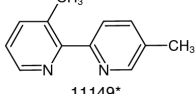
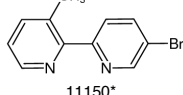
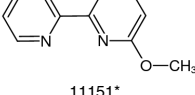
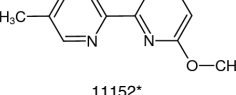
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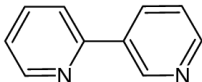
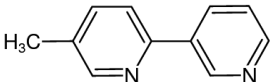
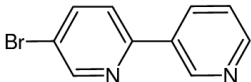
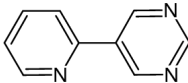
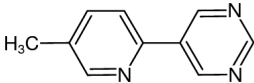
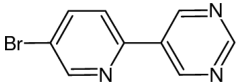



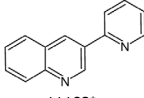
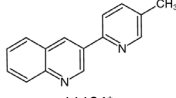
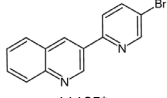
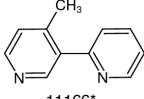
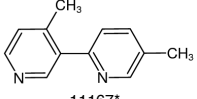
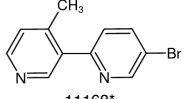
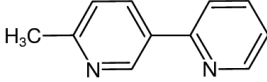
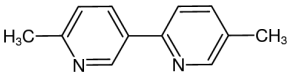
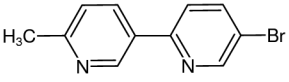
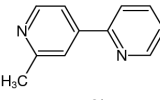
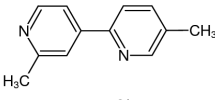
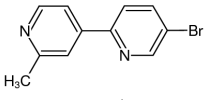
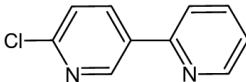
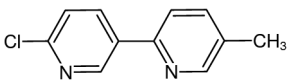
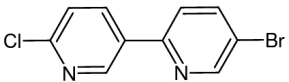
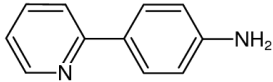
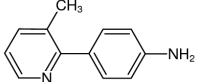
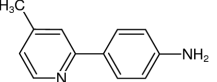
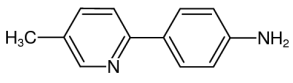
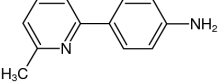
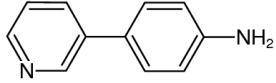
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 11172*	 11173*	 11174*
 11175*	 11176*	 11177*
 11500*	 11501*	 11502*
 11503*	 11504*	 11505*

I. Alpha-Ketoesters and Acids

Pricing:

1g/ \$190

2g/ \$320

5g/ \$650

10g/ \$1,100

25g/ \$2,200

Compounds with *:

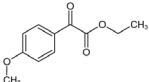
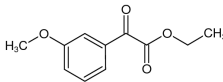
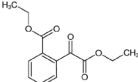
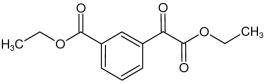
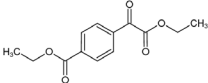
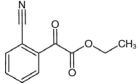
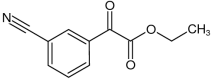
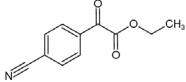
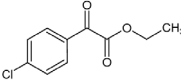
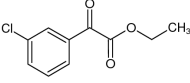
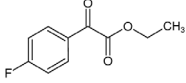
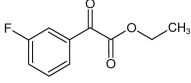
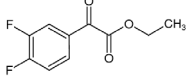
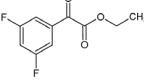
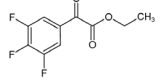
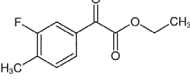
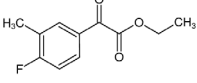
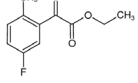
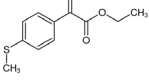
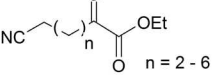
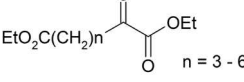
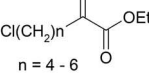
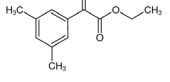
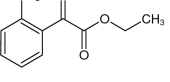
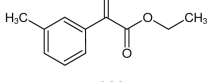
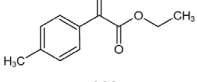
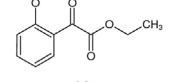
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
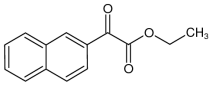
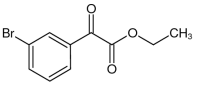
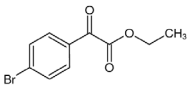

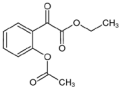
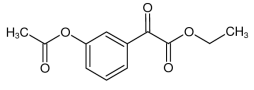
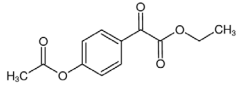
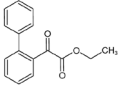
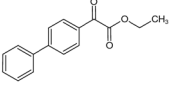
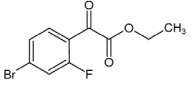
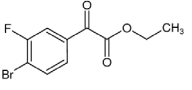
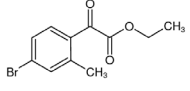
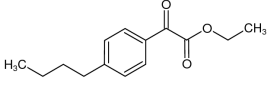
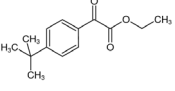
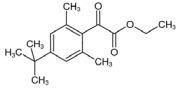
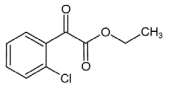
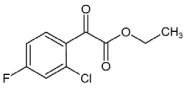
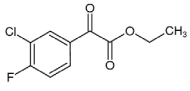
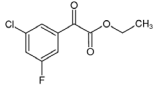
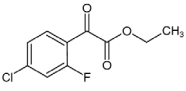
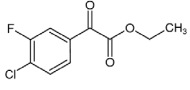
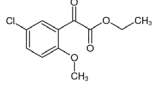
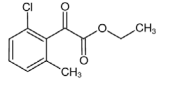
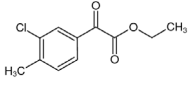
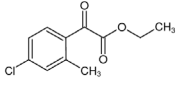
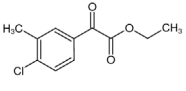
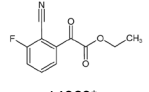
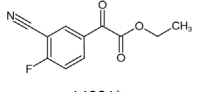
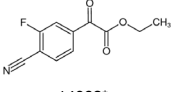
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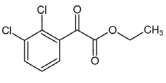
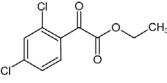
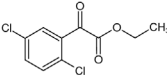
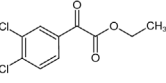
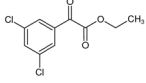
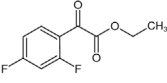
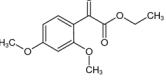
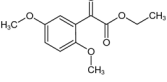
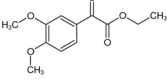
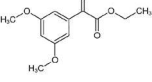
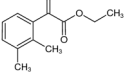
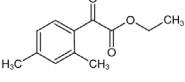
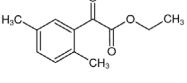
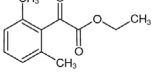
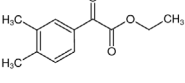
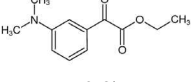
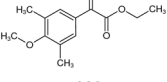
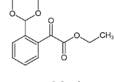
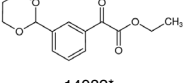
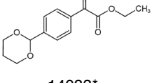
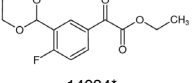
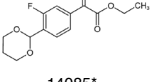
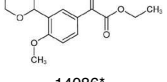
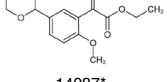
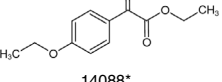
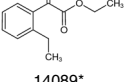
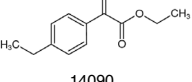
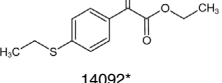
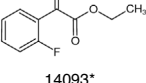
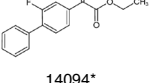
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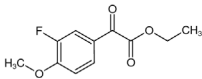
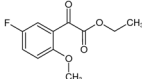
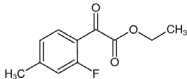
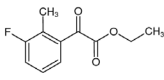
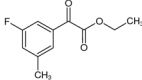
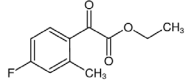

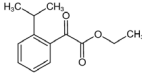
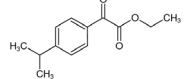
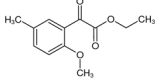
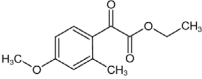

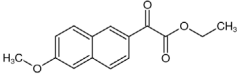
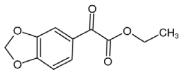


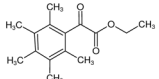
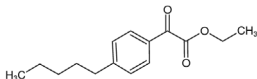

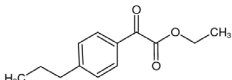
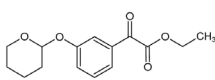
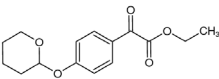
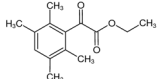
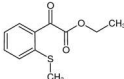
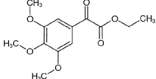
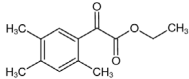
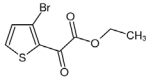
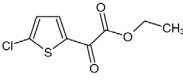
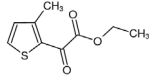
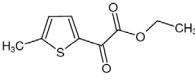
10g/ \$1,700

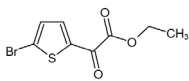
25g/ \$3,400

 14001	 14002	 14003*
 14004*	 14005*	 14006*
 14007*	 14008*	 14009
 14010	 14011	 14012
 14013	 14014	 14015*
 14016	 14017	 14018
 14019*	 14022 *	 14023 *
 14024 *	 14025	 14027
 14028	 14029	 14031

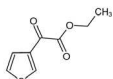
 14032	 14034	 14035*
 14036*	 14037*	 14038*
 14039*	 14040*	 14041
 14042	 14043*	 14044*
 14045	 14046	 14047
 14048*	 14049	 14050*
 14051*	 14052*	 14053*
 14054*	 14055*	 14056*
 14057*	 14058*	 14059*
 14060*	 14061*	 14062*

 14063*	 14064*	 14065*
 14066*	 14067*	 14068*
 14069*	 14070*	 14071*
 14072	 14073	 14074
 14075*	 14076	 14077*
 14078*	 14080	 14081*
 14082*	 14083*	 14084*
 14085*	 14086*	 14087*
 14088*	 14089*	 14090
 14092*	 14093*	 14094*

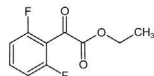
 14095*	 14096*	 14097*
 14098*	 14099*	 14100*
 14101*	 14103*	 14104
 14105	 14106*	 14108
 14109*	 14110*	 14111*
 14112*	 14113*	 14114*
 14115*	 14117	 14118*
 14119*	 14120*	 14121*
 14122*	 14123*	 14124*
 14125*	 14126*	 14127*



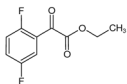
14128*



14129*







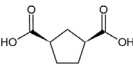
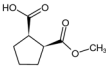
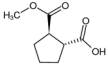
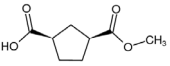
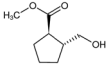
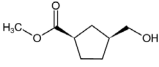
14130*



14131*

I. Cyclopentane Dicarboxylic Acids, Anhydrides, Ester Acids, and Derivatives

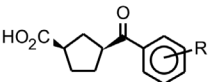
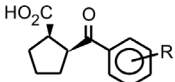
NOTE: All chiral compounds contain a mixture of enantiomers e.g. not chirally pure.

 <p>18000</p> <p>1g/\$240 5g/\$800 10g/\$1,300 25g/\$2,600</p>	 <p>18001</p> <p>1g/\$240 5g/\$800 10g/\$1,300 25g/\$2,600</p>	 <p>18002</p> <p>1g/\$240 5g/\$800 10g/\$1,300 25g/\$2,600</p>
 <p>18003</p> <p>1g/\$240 5g/\$800 10g/\$1,400 25g/\$2,900</p>	 <p>18004</p> <p>1g/\$240 5g/\$800 10g/\$1,400 25g/\$2,900</p>	 <p>18005</p> <p>1g/\$490 2g/\$890 5g/\$1,600 10g/\$2,900 25g/\$4,900</p>
 <p>18006</p> <p>1g/\$490 2g/\$890 5g/\$1,600 10g/\$2,900 25g/\$4,900</p>	 <p>18007</p> <p>1g/\$290 2g/\$490 5g/\$1,100 10g/\$1,900</p>	 <p>18014</p> <p>1g/\$490 2g/\$890 5g/\$1,600 10g/\$2,900</p>
 <p>18015</p> <p>1g/\$390 2g/\$590 5g/\$1,300 10g/\$2,400</p>		

For ordering 18008 and 18009 specify the R group desired by using the 2-digit code from the chart

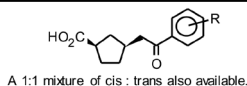
(e.g. 18008-02/ cis-3-(2-methylbenzoyl)cyclopentane-1-carboxylic acid).

- | | | | |
|---------------|------------------|--------------|------------------|
| -01 Hydrogen | -06 3-methoxy | -17 4-ethyl | -26 2,3-dimethyl |
| -02 2-methyl | -07 4-methoxy | -20 3-chloro | -27 2,4-dimethyl |
| -03 3-methyl | -14 2-thiomethyl | -21 4-chloro | -28 2,5-dimethyl |
| -04 4-methyl | -15 4-thiomethyl | -22 3-fluoro | -29 2,6-dimethyl |
| -05 2-methoxy | -16 2-ethyl | -23 4-fluoro | -30 3,4-dimethyl |
| | | | -31 3,5-dimethyl |

 <p>18008-R</p> <p>1g/ \$390 2g/ \$590 5g/ \$1,200</p>	 <p>18009-R</p> <p>1g/ \$590 2g/ \$1,100 5g/ \$2,300</p>
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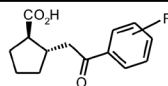
For ordering 18010 and 18011 specify the R group desired by using the 2-digit code from the chart.

-01 Hydrogen	-06 3-methoxy	-18 3-bromo	-23 4-fluoro	-41 3-iodo	-46 2-nitro
-02 2-methyl	-07 4-methoxy	-19 4-bromo	-35 2-bromo	-42 4-iodo	-47 3-nitro
-03 3-methyl	-08 2-cyano	-20 3-chloro	-36 2-chloro	-43 2-trifluoromethyl	-48 4-nitro
-04 4-methyl	-09 3-cyano	-21 4-chloro	-37 2-fluoro	-44 3-trifluoromethyl	
-05 2-methoxy	-10 4-cyano	-22 3-fluoro	-40 2-iodo	-45 4-trifluoromethyl	



18010-R

500mg/ \$850 1g/ \$1,600 2g/ \$2,400 5g/ \$4,900

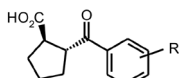


18011-R

500mg/ \$850 1g/ \$1,600 2g/ \$2,400 5g/ \$4,900

For ordering 18012, specify the R group desired by using the 2 digit code from the chart.


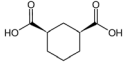



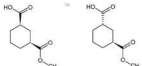

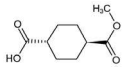

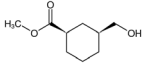
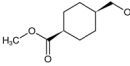
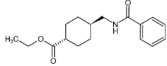
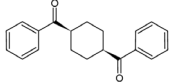
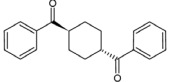
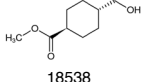
-01 Hydrogen	-08 2-cyano	-18 3-bromo	-25 4- <i>n</i> -pentyl
-02 2-methyl	-09 3-cyano	-19 4-bromo	-26 2,3-dimethyl
-03 3-methyl	-10 4-cyano	-20 3-chloro	-27 2,4-dimethyl
-04 4-methyl	-14 2-thiomethyl	-21 4-chloro	-28 2,5-dimethyl
-05 2-methoxy	-15 4-thiomethyl	-22 3-fluoro	-29 2,6-dimethyl
-06 3-methoxy	-16 2-ethyl	-23 4-fluoro	-30 3,4-dimethyl
-07 4-methoxy	-17 4-ethyl	-24 2- <i>iso</i> -propyl	-31 3,5-dimethyl



18012-R

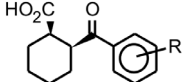
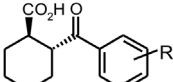
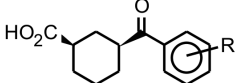
500mg/ \$600 1g/ \$1,100 2g/ \$1,600 5g/ \$2,900 10g/ \$4,900

I. Cyclohexane Dicarboxylic Acids, Anhydrides, Ester Acids, and Derivatives

 <p>18500</p> <p>1g/\$240 5g/\$800 10g/\$1,400 25g/\$2,900 50g/\$4,500</p>	 <p>18501</p> <p>1g/\$240 5g/\$800 10g/\$1,400 25g/\$2,900 50g/\$4,500</p>	 <p>18503</p> <p>1g/\$170 5g/\$390 10g/\$650 50g/\$2,900</p>
 <p>18504</p> <p>1g/\$190 5g/\$490 10g/\$790 25g/\$1,600 50g/\$2,900</p>	 <p>18505</p> <p>1g/\$240 5g/\$790 10g/\$1,400 25g/\$2,900 50g/\$4,500</p>	 <p>18506</p> <p>1g/\$240 5g/\$790 10g/\$1,200</p>
 <p>18507</p> <p>1g/\$240 5g/\$800 10g/\$1,500 25g/\$2,900 50g/\$4,900</p>	 <p>18508</p> <p>1g/\$290 2g/\$490 5g/\$890 10g/\$1,600 25g/\$2,800</p>	 <p>18522</p> <p>1g/\$590 2g/\$990 5g/\$2,200 10g/\$3,800</p>
 <p>18523</p> <p>1g/\$390 2g/\$590 5g/\$1,200 10g/\$2,100</p>	 <p>18525</p> <p>1g/\$390 2g/\$590 5g/\$1,300 10g/\$2,300</p>	 <p>18532</p> <p>1g/\$490 2g/\$890</p>
 <p>18536-01</p>	 <p>18537-01</p>	 <p>18538</p> <p>1g/\$390 2g/\$590 5g/\$1,600 10g/\$2,600 25g/\$4,900</p>

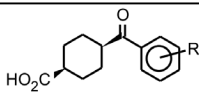
For ordering 18509 thru 18511 specify the R group desired by using the 2 digit code from the chart.

-01 Hydrogen	-06 3-methoxy	-17 4-ethyl	-26 2,3-dimethyl	-31 3,5-dimethyl
-02 2-methyl	-07 4-methoxy	-20 3-chloro	-27 2,4-dimethyl	
-03 3-methyl	-14 2-thiomethyl	-21 4-chloro	-28 2,5-dimethyl	
-04 4-methyl	-15 4-thiomethyl	-22 3-fluoro	-29 2,6-dimethyl	
-05 2-methoxy	-16 2-ethyl	-23 4-fluoro	-30 3,4-dimethyl	

 <p>18509-R</p> <p>1g/ \$490 5g/ \$1,200 10g/ \$2,100 25g/ \$3,900</p>	 <p>18510-R</p> <p>1g/ \$390 5g/ \$1,200 10g/ \$2,100 25g/ \$3,900</p>
 <p>18511-R</p> <p>1g/ \$390 5g/ \$1,200 10g/ \$2,100 25g/ \$3,900</p>	

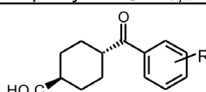
For ordering 18513 and 18514 specify the R group desired by using the 2 digit code from the chart

- | | | | | |
|---------------|---------------|------------------|---------------------------|------------------|
| -01 Hydrogen | -06 3-methoxy | -14 2-thiomethyl | -20 3-chloro | -26 2,3-dimethyl |
| -02 2-methyl | -07 4-methoxy | -15 4-thiomethyl | -21 4-chloro | -27 2,4-dimethyl |
| -03 3-methyl | -08 2-cyano | -16 2-ethyl | -22 3-fluoro | -28 2,5-dimethyl |
| -04 4-methyl | -09 3-cyano | -17 4-ethyl | -23 4-fluoro | -29 2,6-dimethyl |
| -05 2-methoxy | -10 4-cyano | -18 3-bromo | -24 2- <i>iso</i> -propyl | -30 3,4-dimethyl |
| | | -19 4-bromo | -25 4- <i>n</i> -pentyl | -31 3,5-dimethyl |



18513-R

1g/ \$490 2g/ \$890 5g/ \$1,600 10g/ \$2,900

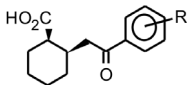


18514-R

1g/ \$490 2g/ \$890 5g/ \$1,600 10g/ \$2,900

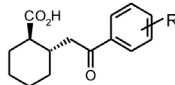
For ordering 18515 thru 18520 specify the R group desired by using the 2 digit code from the chart

- | | | | |
|---------------|--------------|--------------|-----------------------|
| -01 Hydrogen | -08 2-cyano | -22 3-fluoro | -42 4-iodo |
| -02 2-methyl | -09 3-cyano | -23 4-fluoro | -43 2-trifluoromethyl |
| -03 3-methyl | -10 4-cyano | -35 2-bromo | -44 3-trifluoromethyl |
| -04 4-methyl | -18 3-bromo | -36 2-chloro | -45 4-trifluoromethyl |
| -05 2-methoxy | -19 4-bromo | -37 2-fluoro | -46 2-nitro |
| -06 3-methoxy | -20 3-chloro | -40 2-iodo | -47 3-nitro |
| -07 4-methoxy | -21 4-chloro | -41 3-iodo | -48 4-nitro |



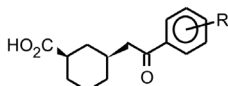
18515-R

500mg/ \$750 1g/ \$1,400 2g/ \$2,400 5g/ \$4,900



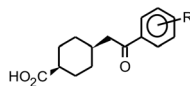
18516-R

500mg/ \$750 1g/ \$990 5g/ \$3,900 10g/ \$5,900



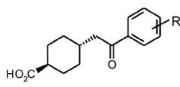
18517-R

500mg/ \$600 1g/ \$990 5g/ \$3,900 10g/ \$5,900



18519-R

500mg/ \$600 1g/ \$990 5g/ \$3,900 10g/ \$5,900



18520-R

500mg/ \$700 500mg/ \$900 1g/ \$1,200 5g/ \$4,900 10g/ \$6,900

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