

$n\text{-BuLi}$ : 18127  
 $\text{Et}_2\text{O}$ : 36433

## AcroSeal Packaging

Your solution for air- and moisture-sensitive reagents

Extra dry solvents  
Deuterated solvents  
Organometallic compounds  
Reagents in solution  
Organics



# Introduction

Since the launch of AcroSeal™ packaging we have introduced several new septa, which help preserve product quality for longer. In addition, our AcroSeal portfolio has been expanded to include a broad range of solvents, organometallics, reagents in solution and organic compounds. In this brochure we have categorized our products under chemical families to make it easier to locate the product you need.

<b>Introduction</b>	<b>Page no.</b>
AcroSeal packaging highlights	3
AcroSeal packaging performance	4
New 25mL AcroSeal packaging	4
<b>Solvents</b>	
Extra dry solvents	5-7
Solvents for biochemistry	7
Deuterated solvents	7
<b>Organometallics</b>	
Grignard reagents	8-10
Organoaluminiums	11
Organolithiums	11
Organosodiums	12
Organotins	12
Organozincs	12
<b>Reagents in solution</b>	
Amines	13
Boranes	13
Halides	14-15
Hydrides	15
Oxides	16
Silanes	16
Other reagents in solution	17
<b>Organics</b>	
Aldehydes	18
Amines	18
Epoxides	18
Halides	19
Phosphines	19
Silanes	19
Other organics	20
<b>How to use AcroSeal packaging</b>	<b>21</b>
<b>Alphabetical index</b>	<b>22-23</b>

# Introduction

## AcroSeal packaging: drier reagents for longer

When using air- and moisture-sensitive solvents and reagents, it is essential that these products are not only as dry as possible when you first use them, but they should remain dry in storage as well. Through the innovative quadrant-style screw cap and specially designed septum, AcroSeal packaging ensures that you have access to high-quality and low-moisture products every use, guaranteeing improved yield and consistency of your research experiments while reducing chemical waste.

### AcroSeal packaging highlights

**New septum** developed from a polymeric elastomer with an inert fluoropolymer-coated surface, preserves product quality for longer with better re-seal around needle punctures.



**Red butyl rubber septum** is used on our organometallics, reagents in solution and organics products because it provides excellent chemical resistance to these products.



**Adhesive-free septum** reduces the risk of contamination.

**Multiple screw thread windings** in the inner septum holding cap minimize the risk of moisture ingress between cap and bottle.

**Inner septum holding cap rim design** supports and stretches the septum, reducing the risk of bulging or deformation.

**Large surface area** allows easier access for a second needle to replace the nitrogen blanket during use and prevents the need to puncture the same spot twice.

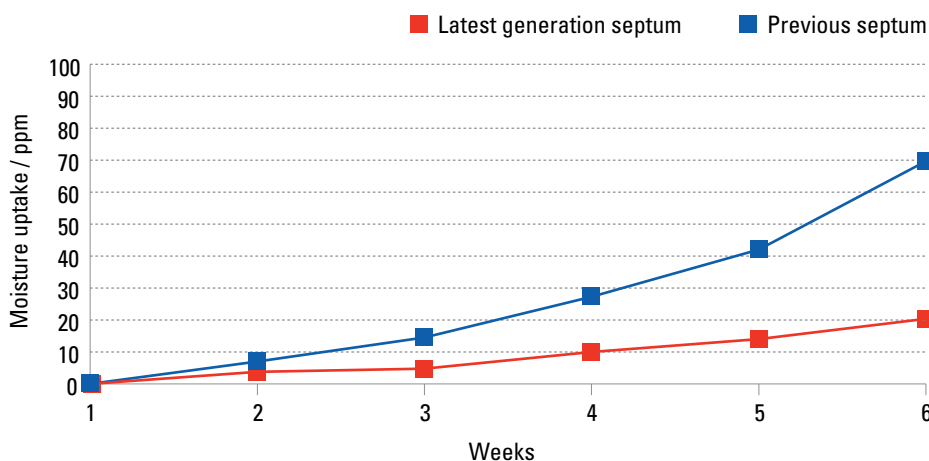
**Cushioning liner** in outer protective cap re-seals perfectly even after the septum has been pierced multiple times.

**Tamper-evident seal** indicates if the product has already been opened.

**Easy cap removal** ensures effortless access to large volumes of product.

# Introduction

## AcroSeal packaging performance



**Figure 1: Moisture uptake of Tetrahydrofuran packaged in AcroSeal packaging with latest generation septum versus previous septum.**

A six-week analysis was undertaken to measure the water uptake of Tetrahydrofuran packaged in AcroSeal packaging. Our results demonstrate that the rate of moisture uptake was reduced by greater than 50% for Tetrahydrofuran packaged using the latest generation septum.



### Related resource

#### AcroSeal video

This video highlights how you can use our unique AcroSeal packaging to keep your air- and moisture-sensitive solvents and reagents drier for longer.

View the video at [www.acros.com](http://www.acros.com)



## 25mL AcroSeal packaging

AcroSeal packaging is available for a wide choice of products and in a range of convenient pack sizes, including the **new 25mL AcroSeal packaging size**.

Designed for your convenience, the 25mL pack size meets your needs for applications where small research-scale quantities of extra dry solvents are required. The new 25mL packaging expands our AcroSeal portfolio to better meet your chemistry needs. For a full list of all the AcroSeal products available in 25mL packaging see pages 5-7.



# Solvents

## Solvents

Our range includes extra dry solvents for moisture-sensitive applications, solvents for biochemistry and some of the most commonly used deuterated solvents. Deuterated solvents in AcroSeal packaging offer a low cost alternative to ampule packaging and reduce the hazards associated with handling ampules.

We offer extra dry solvents in two different grades:

- **Molecular sieves grade:** Stored over molecular sieves for prolonged shelf life
- **Supreme grade:** Filtered through 0.2 micro filters for dust-free applications

## Extra dry solvents

Compound	Molecular sieves grade		Supreme grade		CAS no.
	Product code	Pack size	Product code	Pack size	
Acetone, 99.8%			326801000 326800010	100mL 1L	67-64-1
Acetonitrile, 99.9%	36431000 364315000 364310010 364310025	100mL 500mL 1L 2.5L	326811000 326810010 326810025 448391000	100mL 1L 2.5L 4 x 25mL	75-05-8
Anisole, 99%			429251000 429250010	100mL 1L	100-66-3
Benzyl alcohol, 98+%			396881000 396880010	100mL 1L	100-51-6
Bis(2-methoxyethyl) ether, 99+%			397211000 397210010	100mL 1L	111-96-6
1-Butanol, 99+%			398961000 398960010	100mL 1L	71-36-3
2-Butanone, 99.5%			396951000 396950010	100mL 1L	78-93-3
n-Butyl acetate, 99+%			429231000 429230010	100mL 1L	123-86-4
tert-Butyl methyl ether, 99+%	375221000 375220010	100mL 1L	375211000 375210010	100mL 1L	1634-04-4
Chlorobenzene, 99.8%			396971000 396970010	100mL 1L	108-90-7
1-Chlorobutane, 99.5%			433821000 433820010	100mL 1L	109-69-3
Chloroform, 99.9%, stabilized	364321000 364320010	100mL 1L	326821000 326820010 326820025	100mL 1L 2.5L	67-66-3
Cyclohexane, 99.5%	364661000 364660010 364660025	100mL 1L 2.5L	326831000 326830010 326830025	100mL 1L 2.5L	110-82-7
Cyclopentane, 95+%			397681000 397680010	100mL 1L	287-92-3
Cyclopentyl methyl ether, 99.5%, stabilized			397251000 397250010	100mL 1L	5614-37-9
Decahydronaphthalene, 99%, mixture of cis and trans			406171000 406170010	100mL 1L	91-17-8
Decane, 99%			434601000 434600010	100mL 1L	124-18-5
Di-n-butyl ether, 99+%			396911000 396910010 396910025	100mL 1L 2.5L	142-96-1
1,2-Dichlorobenzene, 98+%			396961000 396960010	100mL 1L	95-50-1
1,2-Dichloroethane, 99.8%			326841000 326840010 326840025	100mL 1L 2.5L	107-06-2
Dichloromethane, 99.9%, stabilized	348461000 348465000 348460010 348460025	100mL 500mL 1L 2.5L	326851000 326850010 326850025 448371000	100mL 1L 2.5L 4 x 25mL	75-09-2
Diethoxymethane, 99+%, stabilized	443051000	100mL			462-95-3
Diethyl ether, 99.5%, stabilized	364331000 364335000 364330010 364330025	100mL 500mL 1L 2.5L	326861000 326860010 326860025 448421000	100mL 1L 2.5L 4 x 25mL	60-29-7
N,N-Dimethylacetamide, 99.5%	375231000 375230010	100mL 1L	396351000 396350010 396350025	100mL 1L 2.5L	127-19-5
Dimethyl carbonate, 99+%			428731000 428730010	100mL 1L	616-38-6
N,N-Dimethylformamide, 99.8%	348431000 348435000 348430010 348430025	100mL 500mL 1L 2.5L	326871000 326870010 326870025 448381000	100mL 1L 2.5L 4 x 25mL	68-12-2
1,4-Dioxane, 99.5%	364341000 364340010 364340025	100mL 1L 2.5L			123-91-1
1,4-Dioxane, 99.8%, stabilized			326891000 326890010 326890025	100mL 1L 2.5L	123-91-1

# Solvents

## Extra dry solvents

Compound	Molecular sieves grade		Supreme grade		CAS no.
	Product code	Pack size	Product code	Pack size	
1,3-Dioxolane, 99.8%, stabilized with 75 ppm BHT			431561000 431560010	100mL 1L	646-06-0
Dodecane, 99%			434591000 434590010	100mL 1L	112-40-3
Ethanol, 99.5%, absolute			397691000 397690010 397690025	100mL 1L 2.5L	64-17-5
Ethyl acetate, 99.9%	364351000 364350010 364350025	100mL 1L 2.5L	326901000 326900010 326900025	100mL 1L 2.5L	141-78-6
Ethylbenzene, 99.8%			433801000 433800010	100mL 1L	100-41-4
Ethyl formate, 98+%			429241000	100mL	109-94-4
n-Heptane, 99+%	364361000 364360010 364360025	100mL 1L 2.5L	326911000 326910010	100mL 1L	142-82-5
n-Hexadecane, 99%			436141000 436140010	100mL 1L	544-76-3
n-Hexane, 96+%			326921000 326922500 326920010 326920025	100mL 250mL 1L 2.5L	110-54-3
n-Hexane, 97%	364371000 364370010	100mL 1L			110-54-3
Hexyl alcohol, 99%			433861000 433860010	100mL 1L	111-27-3
Isopropanol, 99.5%	364401000 364400010 364400025	100mL 1L 2.5L			67-63-0
Isopropanol, 99.8%			326961000 326960010 326960025	100mL 1L 2.5L	67-63-0
Methanol, 99.8%	364391000 364395000 364390010 364390025	100mL 500mL 1L 2.5L	448411000	4 x 25mL	67-56-1
Methanol, 99.9%			326951000 326950010 326950025	100mL 1L 2.5L	67-56-1
2-Methoxyethanol, 99+%			396891000 396890010	100mL 1L	109-86-4
Methyl acetate, 99+%			371831000 371830010 371830025	100mL 1L 2.5L	79-20-9
2-Methylbutane, 99%			397221000 397220010	100mL 1L	78-78-4
3-Methyl-1-butanol, 99%			433871000 433870010	100mL 1L	123-51-3
Methylcyclohexane, 98%			397241000 397240010	100mL 1L	108-87-2
2-Methyl-1-propanol, 99%			398951000 398950010	100mL 1L	78-83-1
1-Methyl-2-pyrrolidinone, 99.5%	364381000 364380010 364380025	100mL 1L 2.5L	326931000 326930010 326930025	100mL 1L 2.5L	872-50-4
Methyl sulfoxide, 99.7%	348441000 348445000 348440010 348440025	100mL 500mL 1L 2.5L	326881000 326880010 326880025	100mL 1L 2.5L	67-68-5
2-Methyltetrahydrofuran, 99+%, stabilized	396631000 396630010	100mL 1L	396621000 396620010 396620025	100mL 1L 2.5L	96-47-9
2-Methyltetrahydrofuran, 99+%, stabilizer free			397200010	1L	96-47-9
n-Nonane, 99%			435631000	100mL	111-84-2
n-Octane, 99+%			396901000 396900010	100mL 1L	111-65-9
1-Octanol, 99%			434581000 434580010	100mL 1L	111-87-5
n-Pentane, 99+%			397231000 397230010	100mL 1L	109-66-0
Petroleum ether, boiling range 40-60°C, water <50 ppm			396921000 396920010	100mL 1L	64742-49-0
1-Propanol, 99.5%			396941000 396940010	100mL 1L	71-23-8
Pyridine, 99.5%	364421000 364420010 364420025	100mL 1L 2.5L	339421000 339420010 339420025	100mL 1L 2.5L	110-86-1
Tetrahydrofuran, 99.5%, stabilized	348451000 348455000 348450010 348450025	100mL 500mL 1L 2.5L			109-99-9
Tetrahydrofuran, 99.85%, stabilized			326971000 326970010 326970025 448361000	100mL 1L 2.5L 4 x 25mL	109-99-9

# Solvents

## Extra dry solvents

Compound	Molecular sieves grade		Supreme grade		CAS no.
	Product code	Pack size	Product code	Pack size	
Toluene, 99.85%	364411000	100mL	326981000	100mL	108-88-3
	364415000	500mL	326980010	1L	
	364410010	1L	326980025	2.5L	
	364410025	2.5L	448401000	4 x 25mL	
2,2,4-Trimethylpentane, 99.5%			326941000	100mL	540-84-1
			326940010	1L	
m-Xylene, 99%			158931000	100mL	108-38-3
			158930010	1L	
o-Xylene, 99%			443021000	100mL	95-47-6
			443020010	1L	
Xylenes, 98+%, mixed isomers			396931000	100mL	1330-20-7
			396930010	1L	

## Solvents for biochemistry

Product code	Product name	Pack size	CAS no.
447050010	n-Butyl acetate, 99.5%, for biochemistry	1L	123-86-4
447050025		2.5L	
406910010	Dichloromethane, 99.9%, for biochemistry, stabilized with approx. 50 ppm amylene	1L	75-09-2
406910025		2.5L	
447090010	N,N-Dimethylformamide, 99.9%, for biochemistry	1L	68-12-2
447090025		2.5L	
447060010	1,4-Dioxane, 99%, for biochemistry, stabilized	1L	123-91-1
447060025		2.5L	
364240010	Ethyl acetate, 99.8%, for biochemistry	1L	141-78-6
364240025		2.5L	
447070010	n-Heptane, 99%, for biochemistry	1L	142-82-5
447070025		2.5L	
447080010	Isopropanol, 99%, for biochemistry and histology	1L	67-63-0
447080025		2.5L	
124790010	Methanol, 99.9%, for biochemistry	1L	67-56-1
124790025		2.5L	
412721000	3-Methyl-1-butanol, 99%, for biochemistry	100mL	123-51-3
412720010		1L	
412720025		2.5L	
224131000	2-Pentanone, 99+%, purified by redistillation	100mL	107-87-9
224130010		1L	
447900010	Pyridine, 99.8%, for biochemistry	1L	110-86-1
447900025		2.5L	
447240010	Xylenes, 99%, for biochemistry and histology, mixed isomers with ethylbenzene	1L	1330-20-7
447240025		2.5L	

## Deuterated solvents

Product code	Product name	Pack size	CAS no.
217371000	Acetone-d <sub>6</sub> , for NMR, 99.8 atom% D	100mL	666-52-4
217421000	Acetonitrile-d <sub>3</sub> , for NMR, 99.8 atom% D	100mL	2206-26-0
426771000	Chloroform-d, for NMR, 99.8 atom% D	100mL	865-49-6
426961000	Chloroform-d, for NMR, contains 0.03 v/v% TMS, 99.8+ atom% D	100mL	865-49-6
210601000	Deuterium chloride, for NMR, 1M solution in D <sub>2</sub> O, 99.8 atom% D	100mL	7698-05-7
426931000	Deuterium oxide, for NMR, 99.8 atom% D	100mL	7789-20-0
184761000	Deuterium oxide, for NMR, 100 atom% D	100mL	7789-20-0
433991000	Dichloromethane-d <sub>2</sub> , for NMR, 99.5 atom% D	100mL	1665-00-5
325351000	Methanol-d <sub>4</sub> , for NMR, contains 0.03 v/v% TMS, 99.8 atom% D	100mL	811-98-3
426951000	Methanol-d <sub>4</sub> , for NMR, 99.8 atom% D	100mL	811-98-3
426941000	Methyl sulfoxide-d <sub>6</sub> , for NMR, 99.9 atom% D	100mL	2206-27-1
434001000	Toluene-d <sub>8</sub> , for NMR, 99.5 atom% D	100mL	2037-26-5



# Organometallics

## Organometallics

We offer a wide selection of organometallic compounds including an extensive collection of Grignard reagents but also popular organoaluminiums, organolithiums, organosodiums and organozinc products.

### Grignard reagents

Product code	Product name	Pack size	CAS no.
209531000 209538000	Allylmagnesium bromide, 1M solution in diethyl ether	100mL 800mL	1730-25-2
209671000 209678000	Allylmagnesium chloride, 1.7M solution in THF	100mL 800mL	2622-05-1
389551000 389558000	Benzylmagnesium chloride, 1.4M solution in THF	100mL 800mL	6921-34-2
440320500	2-Benzyloxyphenylmagnesium bromide, 1M solution in THF	50mL	328000-16-4
436221000	4-Benzyloxyphenylmagnesium bromide, 0.8M solution in THF	100mL	120186-59-6
431621000	4-Biphenylmagnesium bromide, 0.5M solution in THF	100mL	3315-91-1
392151000	3,5-Bis(trifluoromethyl)phenylmagnesium bromide, 0.5M solution in THF	100mL	112981-69-8
431611000	2-Bromobenzylmagnesium bromide, 0.25M solution in diethyl ether	100mL	56812-60-3
431601000	3-Bromobenzylmagnesium bromide, 0.25M solution in diethyl ether	100mL	107549-22-4
427461000 427468000	3-Butenylmagnesium bromide, 0.5M solution in THF	100mL 800mL	7103-09-5
426971000	n-Butyl-sec-butylmagnesium, 0.7M solution in hexanes	100mL	39881-32-8
381181000 381188000	n-Butylethylmagnesium, 0.9M solution in heptane	100mL 800mL	62202-86-2
331681000 331688000	n-Butylmagnesium chloride, 20 wt.% solution in THF/toluene	100mL 800mL	693-04-9
331661000	sec-Butylmagnesium chloride, 25 wt.% solution in THF	100mL	15366-08-2
394301000 394308000	tert-Butylmagnesium chloride, 1.7M solution in diethyl ether	100mL 800mL	677-22-5
331671000 331678000	tert-Butylmagnesium chloride, 1.7M solution in THF	100mL 800mL	677-22-5
432861000	4-tert-Butylphenylmagnesium bromide, 2M solution in diethyl ether	100mL	63488-10-8
431990500	3-Chloro-4-fluorophenylmagnesium bromide, 0.5M solution in THF	50mL	413589-34-1
432000500	3-Chloro-5-fluorophenylmagnesium bromide, 0.5M solution in THF	50mL	480438-50-4
399081000	4-Chloro-3-fluorophenylmagnesium bromide, 0.5M solution in THF	100mL	170793-00-7
431980500	4-Chloro-2-methylphenylmagnesium bromide, 0.5M solution in THF	50mL	480438-47-9
397491000	3-Chlorophenylmagnesium bromide, 0.5M solution in THF	100mL	36229-42-2
377401000 377408000	4-Chlorophenylmagnesium bromide, 1M solution in diethyl ether	100mL 800mL	873-77-8
377251000 377258000	4-Chlorophenylmagnesium bromide, 1M solution in THF/toluene	100mL 800mL	873-77-8
431970500	5-Chloro-2-thienylmagnesium bromide, 0.5M slurry in THF	50mL	111762-30-2
377341000 377348000	Cyclohexylmagnesium chloride, 1.3M solution in THF/toluene	100mL 800mL	931-51-1
433611000	Cyclohexylmethylmagnesium bromide, 0.25M solution in THF	100mL	35166-78-0
427451000 427458000	Cyclopentylmagnesium bromide, 2.0M solution in diethyl ether	100mL 800mL	33240-34-5
208461000 208468000	Cyclopentylmagnesium chloride, 2M solution in diethyl ether	100mL 800mL	32916-51-1
445951000 445958000	Cyclopropylmagnesium bromide, 0.5M solution in 2-MeTHF	100mL 800mL	23719-80-4
397611000	Cyclopropylmagnesium bromide, 0.5M solution in THF	100mL	23719-80-4
377771000 377778000	Di-n-butylmagnesium, 0.5M solution in heptane	100mL 800mL	1191-47-5
431570500	3,4-Dichlorophenylmagnesium bromide, 0.5M solution in THF	50mL	79175-35-2
433010500	3,5-Dichlorophenylmagnesium bromide, 0.5M solution in THF	50mL	82297-90-3
399511000	3,4-Difluorophenylmagnesium bromide, 0.5M solution in THF	100mL	90897-92-0
427441000	3,5-Difluorophenylmagnesium bromide, 0.5M solution in THF	100mL	62351-47-7
431960500	3,5-Dimethyl-4-methoxyphenylmagnesium bromide, 0.5M solution in THF	50mL	185416-17-5
431930500	2,3-Dimethylphenylmagnesium bromide, 0.5M solution in THF	50mL	134640-85-0
431950500	2,4-Dimethylphenylmagnesium bromide, 0.5M solution in THF	50mL	34589-46-3
431920500	2,5-Dimethylphenylmagnesium bromide, 0.5M solution in THF	50mL	30897-86-0
436061000 436068000	2,6-Dimethylphenylmagnesium bromide, 1M solution in THF	100mL 800mL	21450-64-6
431910500	3,4-Dimethylphenylmagnesium bromide, 0.5M solution in THF	50mL	89980-68-7
431940500	3,5-Dimethylphenylmagnesium bromide, 0.5M solution in THF	50mL	34696-73-6
431900500	(1,3-Dioxan-2-ylethyl)magnesium bromide, 0.5M solution in THF	50mL	480438-44-6
438861000 438868000	(1,3-Dioxolan-2-ylmethyl)magnesium bromide, 0.5M solution in THF	100mL 800mL	180675-22-3 180675-22-3
435951000	(2-Ethylhexyl)magnesium bromide, 1M solution in diethyl ether	100mL	90224-21-8
347281000 347288000	Ethylmagnesium bromide, 0.9M in tert-butyl methyl ether	100mL 800mL	925-90-6



## Grignard reagents

Product code	Product name	Pack size	CAS no.
210471000	Ethylmagnesium bromide, 0.9M solution in THF	100mL	925-90-6
210478000		800mL	
347291000	Ethylmagnesium bromide, 3M in diethyl ether	100mL	925-90-6
347298000		800mL	
183531000	Ethylmagnesium bromide, approx. 3.2M solution in 2-MeTHF	100mL	925-90-6
183538000		800mL	
377281000	Ethylmagnesium chloride, 2.0M solution in THF	100mL	2386-64-3
377288000		800mL	
252571000	Ethylmagnesium chloride, 2.7M (25 wt.%) solution in THF	100mL	2386-64-3
252578000		800mL	
252570024		2.4L	
431890500	4-Ethylphenylmagnesium bromide, 0.5M solution in THF	50mL	22873-28-5
439121000	Ethynylmagnesium bromide, 0.5M solution in THF	100mL	4301-14-8
439128000		800mL	
388951000	Ethynylmagnesium chloride, 0.6M solution in THF/toluene	100mL	65032-27-1
388958000		800mL	
426790500	4-Fluorobenzylmagnesium chloride, 0.25M solution in THF	50mL	1643-73-8
431870500	3-Fluoro-4-methoxyphenylmagnesium bromide, 0.5M solution in THF	50mL	112780-67-3
431880500	5-Fluoro-2-methoxyphenylmagnesium bromide, 0.5M solution in THF	50mL	188132-02-7
431850500	3-Fluoro-4-methylphenylmagnesium bromide, 0.5M solution in THF	50mL	185077-02-5
431840500	4-Fluoro-2-methylphenylmagnesium bromide, 0.5M solution in THF	50mL	30897-90-6
431860500	4-Fluoro-3-methylphenylmagnesium bromide, 0.5M solution in THF	50mL	82297-89-0
431830500	5-Fluoro-2-methylphenylmagnesium bromide, 0.5M solution in THF	50mL	186496-59-3
433740500	3-Fluoro-2-methylphenylmagnesium chloride, 0.5M solution in THF	50mL	480424-74-6
427821000	3-Fluorophenylmagnesium bromide, 1M solution in THF	100mL	17318-03-5
377231000	4-Fluorophenylmagnesium bromide, 0.8M solution in THF	100mL	352-13-6
377238000		800mL	
377371000	4-Fluorophenylmagnesium bromide, 2M solution in diethyl ether	100mL	352-13-6
377378000		800mL	
433031000	Heptylmagnesium bromide, 1M solution in diethyl ether	100mL	13125-66-1
427761000	Hexylmagnesium bromide, 0.8M solution in THF	100mL	3761-92-0
427768000		800mL	
434681000	Hexylmagnesium chloride, 2M solution in THF	100mL	44767-62-6
434688000		800mL	
427391000	Isobutylmagnesium bromide, 2M solution in diethyl ether	100mL	926-62-5
427398000		800mL	
209521000	Isobutylmagnesium chloride, 2M solution in diethyl ether	100mL	5674-02-2
209528000		800mL	
427751000	Isopropenylmagnesium bromide, 0.5M solution in THF	100mL	13291-18-4
427758000		800mL	
426781000	Isopropylmagnesium bromide, 3M solution in 2-MeTHF	100mL	920-39-8
212851000	Isopropylmagnesium chloride, 2.0M solution in THF	100mL	1068-55-9
212858000		800mL	
386281000	Isopropylmagnesium chloride - lithium chloride complex, 1.3M solution in THF	100mL	745038-86-2
386288000		800mL	
431630500	4-Isopropylphenylmagnesium bromide, 0.5M solution in THF	50mL	18620-03-6
210731000	2-Mesitylmagnesium bromide, 1M solution in THF	100mL	2633-66-1
433730500	2-Methoxybenzylmagnesium chloride, 0.25M solution in THF	50mL	480438-46-8
431820500	3-Methoxybenzylmagnesium chloride, 0.25M solution in THF	50mL	26905-40-8
427421000	4-Methoxybenzylmagnesium chloride, 0.25M solution in THF	100mL	38769-92-5
431810500	4-Methoxy-2-methylphenylmagnesium bromide, 0.5M solution in THF	50mL	148706-30-3
431800500	6-Methoxy-2-naphthylmagnesium bromide, 0.5M solution in THF	50mL	38046-82-1
440800500	4-Methoxyphenethylmagnesium chloride, 0.5M solution in THF	50mL	211115-05-8
426731000	2-Methoxyphenylmagnesium bromide, 1M solution in THF	100mL	16750-63-3
426738000		800mL	
426751000	3-Methoxyphenylmagnesium bromide, 1M solution in THF/toluene	100mL	36282-40-3
426758000		800mL	
377421000	4-Methoxyphenylmagnesium bromide, 1M solution in THF	100mL	13139-86-1
377428000		800mL	
427411000	2-Methylallylmagnesium chloride, 0.5M solution in THF	100mL	5674-01-1
433710500	2-Methylbenzylmagnesium chloride, 0.25M solution in THF	50mL	29875-05-6
433720500	3-Methylbenzylmagnesium chloride, 0.25M solution in THF	50mL	29875-06-7
433700500	4-Methylbenzylmagnesium chloride, 0.5M solution in THF	50mL	29875-07-8
438761000	3,4-(Methylenedioxy)phenylmagnesium bromide, 0.8M solution in toluene/THF (50:50)	100mL	17680-04-5
446001000	Methylmagnesium bromide, 1M solution in CPME	100mL	75-16-1
446008000		800mL	
377381000	Methylmagnesium bromide, 1M solution in THF	100mL	75-16-1
377388000		800mL	
377331000	Methylmagnesium bromide, 1.4M solution in toluene/THF	100mL	75-16-1
377338000		800mL	
183541000	Methylmagnesium bromide, 3M solution in diethyl ether	100mL	75-16-1
183548000		800mL	

## Grignard reagents

Product code	Product name	Pack size	CAS no.
391121000	Methylmagnesium bromide, 3.2M solution in 2-MeTHF	100mL	75-16-1
391128000	Methylmagnesium bromide, 3.2M solution in 2-MeTHF	800mL	
252561000	Methylmagnesium chloride, 3M (22 wt.%) solution in THF	100mL	676-58-4
252568000	Methylmagnesium chloride, 3M (22 wt.%) solution in THF	800mL	
427401000	Methylmagnesium iodide, 3M solution in diethyl ether	100mL	917-64-6
427408000	Methylmagnesium iodide, 3M solution in diethyl ether	800mL	
433680500	2-Methyl-1-naphthylmagnesium bromide, 0.25M solution in THF	50mL	21450-90-8
433690500	4-Methyl-1-naphthylmagnesium bromide, 0.25M solution in THF	50mL	115913-58-1
438751000	2-Methyl-2-phenylpropylmagnesium chloride, 0.5M solution in diethyl ether	100mL	35293-35-7
438758000	2-Methyl-2-phenylpropylmagnesium chloride, 0.5M solution in diethyl ether	800mL	
436021000	1-Methyl-1-propenylmagnesium bromide, 0.5M solution in THF	100mL	85676-85-3
436028000	1-Methyl-1-propenylmagnesium bromide, 0.5M solution in THF	800mL	
435561000	2-Methyl-1-propenylmagnesium bromide, 0.5M solution in THF	100mL	38614-36-7
435568000	2-Methyl-1-propenylmagnesium bromide, 0.5M solution in THF	800mL	
431780500	3-Methyl-2-thienylmagnesium bromide, 0.5M solution in THF	50mL	95184-07-9
431750500	[2-(4-Morpholinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-77-9
431760500	[3-(4-Morpholinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-76-8
431770500	[4-(4-Morpholinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-75-7
384121000	1-Naphthylmagnesium bromide, 0.25M solution in THF	100mL	703-55-9
431740500	2-Naphthylmagnesium bromide, 0.5M solution in THF	50mL	21473-01-8
440781000	Nonylmagnesium bromide, 1M solution in diethyl ether	100mL	39691-62-8
436011000	Octadecylmagnesium chloride, 0.3M solution in THF	100mL	116980-66-6
436018000	Octadecylmagnesium chloride, 0.3M solution in THF	800mL	
427811000	Octylmagnesium bromide, 2M solution in diethyl ether	100mL	17049-49-9
427818000	Octylmagnesium bromide, 2M solution in diethyl ether	800mL	
428031000	Octylmagnesium chloride, 1.4M solution in THF	100mL	38841-98-4
428038000	Octylmagnesium chloride, 1.4M solution in THF	800mL	
436160500	Pentadecylmagnesium bromide, 0.5M solution in THF	50mL	78887-70-4
438741000	Pentafluorophenylmagnesium bromide, 0.5M solution in diethyl ether	100mL	879-05-0
436001000	Pentamethylenebis(magnesium bromide), 0.5M solution in THF	100mL	23708-48-7
435551000	Pentylmagnesium bromide, 2M solution in diethyl ether	100mL	693-25-4
435558000	Pentylmagnesium bromide, 2M solution in diethyl ether	800mL	
436211000	Pentylmagnesium chloride, 1.3M solution in THF	100mL	6393-56-2
436218000	Pentylmagnesium chloride, 1.3M solution in THF	800mL	
431730500	9-Phenanthrylmagnesium bromide, 0.5M solution in THF	50mL	71112-64-6
427801000	Phenethylmagnesium chloride, 1M solution in THF	100mL	90878-19-6
427808000	Phenethylmagnesium chloride, 1M solution in THF	800mL	
431720500	4-Phenoxyphenylmagnesium bromide, 0.5M solution in THF	50mL	21473-02-9
431710500	[2-(1-Piperidinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-81-5
431700500	[3-(1-Piperidinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-82-6
431690500	[4-(1-Piperidinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-83-7
434671000	1-Propenylmagnesium bromide, 0.5M solution in THF	100mL	14092-04-7
434678000	1-Propenylmagnesium bromide, 0.5M solution in THF	800mL	
208451000	Propylmagnesium chloride, 2M solution in diethyl ether	100mL	2234-82-4
208458000	Propylmagnesium chloride, 2M solution in diethyl ether	800mL	
431680500	4-n-Propylphenylmagnesium bromide, 0.5M solution in THF	50mL	87942-08-3
426071000	1-Propynylmagnesium bromide, 0.5M solution in THF	100mL	16466-97-0
426078000	1-Propynylmagnesium bromide, 0.5M solution in THF	800mL	
431650500	[2-(1-Pyrrolidinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-80-4
431660500	[3-(1-Pyrrolidinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-79-1
431670500	[4-(1-Pyrrolidinylmethyl)phenyl]magnesium bromide, 0.25M solution in THF	50mL	480424-78-0
431640500	4-(2-Tetrahydro-2H-pyranoxy)phenylmagnesium bromide, 0.5M solution in THF	50mL	36637-44-2
434610500	2-Thienylmagnesium bromide, 1M solution in THF	50mL	5713-61-1
433650500	3-Thienylmagnesium iodide, 0.3M solution in THF	50mL	172035-86-8
399071000	4-Thioanisolemagnesium bromide, 0.5M solution in THF	100mL	18620-04-7
427471000	o-Tolylmagnesium bromide, 2M solution in diethyl ether	100mL	932-31-0
427478000	o-Tolylmagnesium bromide, 2M solution in diethyl ether	800mL	
426761000	p-Tolylmagnesium bromide, approx. 0.5M solution in diethyl ether	100mL	4294-57-9
426768000	p-Tolylmagnesium bromide, approx. 0.5M solution in diethyl ether	800mL	
435971000	m-Tolylmagnesium chloride, 1M solution in THF	100mL	121905-60-0
435978000	m-Tolylmagnesium chloride, 1M solution in THF	800mL	
427481000	o-Tolylmagnesium chloride, 1.4M (22 wt.%) solution in THF/toluene	100mL	33872-80-9
427488000	o-Tolylmagnesium chloride, 1.4M (22 wt.%) solution in THF/toluene	800mL	
382721000	p-Tolylmagnesium chloride, 2M (31 wt.%) solution in THF	100mL	696-61-7
382728000	p-Tolylmagnesium chloride, 2M (31 wt.%) solution in THF	800mL	
433601000	3,4,5-Trifluorophenylmagnesium bromide, 0.3M solution in THF	100mL	156006-28-9
431541000	3,4,5-Trimethoxyphenylmagnesium bromide, 0.5M solution in THF	100mL	156006-28-9
377461000	(Trimethylsilyl)methylmagnesium chloride, 1.3M solution in THF	100mL	13170-43-9
377468000	(Trimethylsilyl)methylmagnesium chloride, 1.3M solution in THF	800mL	
209391000	Vinylmagnesium bromide, 0.7M solution in THF	100mL	1826-67-1
209398000	Vinylmagnesium bromide, 0.7M solution in THF	800mL	
445971000	Vinylmagnesium bromide, 1M solution in 2-MeTHF	100mL	1826-67-1
445978000	Vinylmagnesium bromide, 1M solution in 2-MeTHF	800mL	
252591000	Vinylmagnesium chloride, 1.9M (16.5 wt.%) solution in THF	100mL	3536-96-7
252598000	Vinylmagnesium chloride, 1.9M (16.5 wt.%) solution in THF	800mL	

# Organometallics

## Organoaluminiums

Product code	Product name	Pack size	CAS no.
381151000	Diethylaluminium chloride, 0.9M solution in toluene	100mL	96-10-6
381158000		800mL	
199521000	Diethylaluminium chloride, 1M solution in hexanes	100mL	96-10-6
199528000		800mL	
381161000	Diethylaluminium iodide, 0.9M solution in toluene	100mL	2040-00-8
381168000		800mL	
185471000	Diethylaluminium iodide, 1.1M solution in toluene	100mL	2040-00-8
185478000		800mL	
377561000	Diisobutylaluminium chloride, 0.8M solution in heptane	100mL	1779-25-5
377568000		800mL	
377791000	Dimethylaluminium chloride, 0.9M solution in heptane	100mL	1184-58-3
377798000		800mL	
185451000	Ethylaluminium dichloride, 0.9M solution in heptane	100mL	563-43-9
185458000		800mL	
428041000	Ethylaluminium dichloride, 1.8M solution in toluene	100mL	563-43-9
428048000		800mL	
185461000	Ethylaluminium sesquichloride, 0.4M solution in hexanes	100mL	12075-68-2
185468000		800mL	
435981000	Tetraisobutyldialuminoxane, 10 wt.% solution in toluene	100mL	998-00-5
435988000		800mL	
381171000	Triethylaluminium, 0.6M solution in heptane	100mL	97-93-8
381178000		800mL	
377291000	Triethylaluminium, 1.3M solution in heptane	100mL	97-93-8
377298000		800mL	
185421000	Triisobutylaluminium, 1.1M solution in toluene	100mL	100-99-2
185428000		800mL	
189271000	Trimethylaluminium, 1.0M solution in heptane	100mL	75-24-1
189278000		800mL	
377558000	Tri-n-octylaluminium, 0.3M solution in heptane	800mL	1070-00-4

## Organolithiums

Product code	Product name	Pack size	CAS no.
181271000	n-Butyllithium, 1.6M solution in hexanes	100mL	109-72-8
181275000		500mL	
181278000		800mL	
377491000	n-Butyllithium, 2.2M solution in cyclohexane	100mL	109-72-8
377498000		800mL	
213351000	n-Butyllithium, 2.5M solution in hexanes	100mL	109-72-8
213358000		800mL	
378931000	n-Butyllithium, 2.6M solution in toluene	100mL	109-72-8
378938000		800mL	
187541000	sec-Butyllithium, 1.3M solution in cyclohexane/hexane (92/8)	100mL	598-30-1
187548000		800mL	
396541000	tert-Butyllithium, 1.9M solution in pentane	100mL	594-19-4
396548000		800mL	
445921000	tert-Butyllithium, 18% solution in heptane	100mL	594-19-4
301651000	n-Hexyllithium, 33 wt.% solution in n-hexane	100mL	21369-64-2
301658000		800mL	
377591000	Isobutyllithium, 1.6M solution in heptane	100mL	920-36-5
377598000		800mL	
439881000	Lithium acetylide ethylenediamine complex, 25 wt.% slurry in toluene	100mL	6867-30-7
380651000	Lithium (trimethylsilyl)acetylide, 0.5M solution in THF	100mL	54655-07-1
380658000		800mL	
188751000	Methylolithium, 1.6M solution in diethyl ether ( $\pm$ 5% w/v)	100mL	917-54-4
188758000		800mL	
445841000	Methylolithium, 3% solution in 2-MeTHF/cumene	100mL	917-54-4
445848000		800mL	
181291000	Methylolithium-lithium bromide complex, 2.2M solution in diethyl ether	100mL	332360-06-2
181298000		800mL	
365151000	Phenyllithium, 2.0M solution (20%) in dibutyl ether	100mL	591-51-5
365155000		500mL	
365158000		800mL	
377451000	(Trimethylsilyl)methylolithium, 0.7M (10 wt.%) solution in hexanes	100mL	1822-00-0
377458000		800mL	

# Organometallics

## Organosodiums

Product code	Product name	Pack size	CAS no.
430701000	Sodium acetylide, 18 wt.% slurry in xylene	100mL	1066-26-8
430708000		800mL	

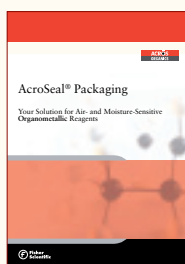
## Organotins

Product code	Product name	Pack size	CAS no.
428711000	Trimethyltin chloride, 1M solution in methylene chloride	100mL	1066-45-1
427851000	Trimethyltin chloride, 1M (20 wt.%) solution in THF	100mL	1066-45-1
427861000	Trimethyltin chloride, 1M (25 wt.%) solution in hexanes	100mL	1066-45-1

## Organozincs

Product code	Product name	Pack size	CAS no.
432820500	Cyclopropylzinc bromide, 0.5M solution in THF	50mL	126403-68-7
205511001	Diethylzinc, 1M solution in hexanes	100mL	557-20-0
205518000		800mL	
377311000	Diethylzinc, 1.5M solution in toluene	100mL	557-20-0
377318000		800mL	
377241000	Dimethylzinc, 1.2M solution in toluene	100mL	544-97-8
377248000		800mL	
433640500	4-Fluorobenzylzinc chloride, 0.5M solution in THF	50mL	312693-07-5
436080500	Methylzinc chloride, 2M solution in THF	50mL	5158-46-3
433630500	2-Pyridylzinc bromide, 0.5M solution in THF	50mL	218777-23-2

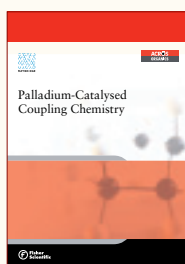
## Related resources



### AcroSeal Packaging — Your Solution for Air- and Moisture-Sensitive Organometallic Reagents white paper

This white paper provides a comparison on the performance of AcroSeal packaging versus another supplier's packaging for the storage of air- and moisture-sensitive organometallic reagents.

Visit [www.acros.com](http://www.acros.com) › [tech support](#) › [literature](#) › [list](#) to download a PDF.



### Palladium-Catalysed Coupling Chemistry white paper

Palladium catalysis has gained widespread use in industrial and academic synthetic chemistry laboratories as a powerful methodology for the formation of C-C and C-Heteroatom bonds. This white paper provides an overview of 10 of the most important synthetic methodologies featuring palladium catalysts.

Visit [www.acros.com](http://www.acros.com) › [tech support](#) › [literature](#) › [list](#) to download a PDF.

# Reagents in solution

## Reagents in solution

We offer some of the most commonly used reactive reagents and corrosive gaseous reagents in ready-to-use solutions including amines, boranes, halides, hydrides, oxides and silanes.

### Amines

Product code	Product name	Pack size	CAS no.
368381000 368380010	Ammonia, 0.5M solution in 1,4-dioxane	100mL 1L	7664-41-7
388441000	Ammonia, 0.5M solution in THF	100mL	7664-41-7
368391000 368398000	Ammonia, 2M solution in methanol	100mL 800mL	7664-41-7
428381000 428388000	Ammonia, approx. 7N solution in methanol	100mL 800mL	7664-41-7
370261000 370268000	Dimethylamine, 2M solution in methyl alcohol	100mL 800mL	124-40-3
388381000 388388000	Dimethylamine, 2M solution in THF	100mL 800mL	124-40-3
370251000 370258000	Ethylamine, 2M solution in THF	100mL 800mL	75-04-7
396731000 396738000	Methylamine, 33 wt.% solution in absolute ethanol	100mL 800mL	74-89-5
368551000 368558000	Methylamine, pure, 2M solution in methanol	100mL 800mL	74-89-5
368491000 368498000	Methylamine, pure, 2M solution in THF	100mL 800mL	74-89-5
429181000	Trimethylamine, 33 wt.% solution in ethanol	100mL	75-50-3
388371000 388378000	Trimethylamine, 1M solution in THF	100mL 800mL	75-50-3

### Boranes

Product code	Product name	Pack size	CAS no.
165811000 165818000	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF	100mL 800mL	280-64-8
428801000	9-Borabicyclo[3.3.1]nonyl trifluoromethanesulfonate, 0.5M solution in diethyl ether	100mL	62731-43-5
224781000	9-Borabicyclo[3.3.1]nonyl trifluoromethanesulfonate, 0.5M solution in hexanes	100mL	62731-43-5
185611000	Borane-methyl sulfide complex, 1M solution in methylene chloride	100mL	13292-87-0
185061000	Borane-methyl sulfide complex, 5M solution in diethyl ether	100mL	13292-87-0
177061000 177068000	Borane-methyl sulfide complex, 94%	100mL 800mL	13292-87-0
185071000 185078000	Borane-methyl sulfide complex, 2M solution in THF	100mL 800mL	13292-87-0
186961000 186968000	Borane-methyl sulfide complex, 2M solution in toluene	100mL 800mL	13292-87-0
427131000	Borane-pyridine complex, 95%, (approx. 9.4M)	100mL	110-51-0
175081000 175088000	Borane-tetrahydrofuran complex, 1M solution in THF, stabilized	100mL 800mL	14044-65-6
209541000 209548000	Catecholborane, 1M solution in THF	100mL 800mL	274-07-7
214141000	Dibutylboron trifluoromethanesulfonate, 1M solution in diethyl ether	100mL	60669-69-4
398381000 398388000	Diethylmethoxyborane, 4M solution in THF	100mL 800mL	7397-46-8
388421000 388428000	(+)-Diisopinocampheylchloroborane, 1.8M solution in hexanes	100mL 800mL	112246-73-8
436040500	(R)-(+)-2-Methyl-CBS-oxazaborolidine, 1M solution in toluene	50mL	112022-83-0
436030500	(S)-(-)-2-Methyl-CBS-oxazaborolidine, 1M solution in toluene	50mL	112022-81-8
177101000 177108000	Tributylborane, 1M solution in THF	100mL 800mL	122-56-5
176981000 176988000	Triethylborane, 1M solution in THF	100mL 800mL	97-94-9
429191000	Trimethylboroxine, 3.5M (50 wt.%) solution in THF	100mL	823-96-1

# Reagents in solution

## Halides

Product code	Product name	Pack size	CAS no.
387741000 387748000	Acetyl chloride, 1M solution in dichloromethane	100mL 800mL	75-36-5
428891000	Ammonium fluoride, 0.5M solution in methanol	100mL	12125-01-8
434521000 434528000	Antimony(V)-chloride, 1M solution in methylene chloride	100mL 800mL	7647-18-9
428981000	[Bis(2-methoxyethyl)amino]sulfur trifluoride, 2.7M (50 wt.%) solution in toluene	100mL	202289-38-1
428901000	Benzyl chloroformate, 3M (50 wt.%) solution in toluene	100mL	501-53-1
428911000	Cyanogen bromide, 3M solution in dichloromethane	100mL	506-68-3
378191000 378198000	Boron tribromide, 1M solution in heptane	100mL 800mL	10294-33-4
427101000 427108000	Boron tribromide, 1M solution in methylene chloride	100mL 800mL	10294-33-4
428321000 428328000	Boron tribromide dimethyl sulfide, 1M solution in methylene chloride	100mL 800mL	29957-59-3
428331000	Boron trichloride, 1M (10 wt.%) solution in 2-chloroethanol	100mL	10294-34-5
198921000 198928000	Boron trichloride, 1M solution in hexanes	100mL 800mL	10294-34-5
176681000 176688000	Boron trichloride, 1M solution in methylene chloride	100mL 800mL	10294-34-5
445271000 445278000	Boron trifluoride, 1.5M (12 wt.%) in methanol	100mL 800mL	373-57-9
428141000	Boron trifluoride dibutyl etherate, 30-35% BF <sub>3</sub>	100mL	593-04-4
427111000 427118000	Boron trifluoride etherate, approx. 48% BF <sub>3</sub>	100mL 800mL	109-63-7
427121000 427128000	Boron trifluoride-propanol, 14 wt.% BF <sub>3</sub> in propanol	100mL 800mL	762-48-1
388401000 388408000	Bromine, 1M solution in acetic acid	100mL 800mL	7726-95-6
389661000 389668000	Bromine, 1M solution in dichloromethane	100mL 800mL	7726-95-6
428721000 428728000	Bromine, 1M solution in trimethyl phosphate	100mL 800mL	7726-95-6
388411000 388418000	Bromine-1,4-dioxane complex, 0.25M solution in 1,4-dioxane	100mL 800mL	15481-39-7
430691000 430698000	Hydrogen bromide, pure, 33 wt.% solution in glacial acid	100mL 800mL	37348-16-6
428931000	Hydrogen chloride, approx. 0.5M solution in methanol	100mL	7647-01-0
370271000	Hydrogen chloride, 1M solution in acetic acid	100mL	7647-01-0
428921000	Hydrogen chloride, 1M solution in ethyl acetate	100mL	7647-01-0
427011000 427018000	Hydrogen chloride, 1.25M solution in ethanol	100mL 800mL	7647-01-0
445851000	Hydrogen chloride, 3M solution in CPME	100mL	7647-01-0
368461000 368468000	Hydrogen chloride, pure, 1N solution in diethyl ether	100mL 800mL	7647-01-0
368471000 368478000	Hydrogen chloride, pure, 2N solution in diethyl ether	100mL 800mL	7647-01-0
388361000 388368000	Hydrogen chloride, 4N solution in 1,4-dioxane	100mL 800mL	7647-01-0
428601000 428608000	Hydrogen chloride, 5 to 6N solution in 2-propanol	100mL 800mL	7647-01-0
428701000	Iodine monobromide, 1M solution in methylene chloride	100mL	7789-33-5
428941000	Iodine monochloride, 1M solution in dichloromethane	100mL	7790-99-0
378411000 378418000	Iodomethane, 2M solution in tert-butyl methyl ether	100mL 800mL	74-88-4
390971000 390978000	Lithium bromide, 4M solution in THF	100mL 800mL	7550-35-8
369181000 369188000	Oxalyl chloride, 2.0M solution in dichloromethane	100mL 800mL	79-37-8
382061000 382068000	Phosphorus tribromide, 1.0M solution in dichloromethane	100mL 800mL	7789-60-8
382101000 382108000	Phosphorus trichloride, 2M solution in dichloromethane	100mL 800mL	7719-12-2
429121000 429120010	Propargyl bromide, 80 wt.% solution in toluene, stabilized	100mL 1L	106-96-7
294991000	Samarium(II) iodide, 0.1M solution in THF, stabilized with samarium powder	100mL	32248-43-4
428761000	Silicon(IV) chloride, 1M solution in methylene chloride	100mL	10026-04-7
378151000 378158000	Sulfuryl chloride, 1.0M solution in dichloromethane	100mL 800mL	7791-25-5

# Reagents in solution

## Halides

Product code	Product name	Pack size	CAS no.
433511000 433518000	Tetrabutylammonium fluoride, 1M solution in THF	100mL 800mL	429-41-4
387721000 387728000	Thionyl chloride, 1M solution in dichloromethane	100mL 800mL	7719-09-7
378201000 378208000	Tin(IV) chloride, 1M solution in dichloromethane	100mL 800mL	7646-78-8
428341000	Tin(IV) chloride, 1M solution in heptane	100mL	7646-78-8
429151000	Titanium(III) chloride, 20%w/w solution in 2N hydrochloric acid	100mL	7705-07-9
377741000 377748000	Titanium(IV) chloride, 1M solution in dichloromethane	100mL 800mL	7550-45-0
428351000	Titanium(IV) chloride, 0.09M solution in 20% HCl	100mL	7550-45-0
378161000 378168000	Titanium(IV) chloride, 1M solution in toluene	100mL 800mL	7550-45-0
433661000 433668000	Vanadium(III) chloride-tetrahydrofuran complex (1:3), 0.5M solution in methylene chloride	100mL 800mL	19559-06-9
428771000 428778000	Vinyl bromide, 1M solution in THF	100mL 800mL	593-60-2
389451000 389458000	Zinc chloride, 0.7M solution in THF	100mL 800mL	7646-85-7
370051000 370058000	Zinc chloride, 1.0M solution in diethyl ether	100mL 800mL	7646-85-7
428561000 428568000	Zinc chloride, 2M solution in 2-MeTHF	100mL 800mL	7646-85-7

## Hydrides

Product code	Product name	Pack size	CAS no.
201051000 201058000	Diisobutylaluminium hydride, 1.0M solution in heptane	100mL 800mL	1191-15-7
183791000 183794000 183798000	Diisobutylaluminium hydride, 1M solution in hexanes	100mL 400mL 800mL	1191-15-7
201031000 201038000	Diisobutylaluminium hydride, 1.1M solution in cyclohexane	100mL 800mL	1191-15-7
201081000 201084000 201088000	Diisobutylaluminium hydride, 1.2M (20 wt.%) solution in toluene	100mL 400mL 800mL	1191-15-7
199491000 199498000	Lithium aluminium hydride, 1M solution in THF	100mL 800mL	16853-85-3
377321000 377328000	Lithium aluminium hydride, 2.4M solution in THF	100mL 800mL	16853-85-3
385571000 385578000	Lithium aluminium hydride, 3.5M (15 wt.%) solution in toluene/THF	100mL 800mL	16853-85-3
199511000 199518000	Lithium aluminium hydride, 4.0M solution in diethyl ether	100mL 800mL	16853-85-3
434551000 434558000	Lithium aluminium hydride bis(tetrahydrofuran), 1M solution in toluene	100mL 800mL	123439-81-6
428881000 428888000	Lithium borohydride, 4M (10 wt.%) solution in THF	100mL 800mL	16949-15-8
377581000 377588000	Lithium tri-tert-butoxyaluminumhydride, 1.1M solution in THF	100mL 800mL	17476-04-9
176451000 176458000	Lithium tri-sec-butylborohydride, 1M solution in THF	100mL 800mL	38721-52-7
439111000 439118000	Lithium tris[(3-ethyl-3-pentyl)oxy]aluminumhydride, 0.5M solution in THF	100mL 800mL	79172-99-9
209681000	Lithium trisiamylborohydride, 1M solution in THF	100mL	60217-34-7
205471000 205478000	Potassium tri-sec-butylborohydride, 1M solution in THF	100mL 800mL	54575-49-4
189181000 189188000	Potassium triisopropoxyborohydride, 1M solution in THF	100mL 800mL	42278-67-1
430911000 430918000	Sodium bis(2-methoxyethoxy)aluminium hydride, 70 wt.% solution in toluene (approx. 3.5M)	100mL 800mL	22722-98-1
191131000	Sodium borohydride, 0.5M solution in diglyme	100mL	16940-66-2
429131000	Sodium borohydride, 12% solution in 40% aq. NaOH solution	100mL	16940-66-2
372451000 372458000	Sodium cyanoborohydride, 1M solution in THF	100mL 800mL	25895-60-7
200031000 200038000	Sodium triethylborohydride, 1M solution in THF	100mL 800mL	17979-81-6
429141000	Sodium tri-sec-butylborohydride, 1M solution in THF	100mL	67276-04-4



# Reagents in solution

## Oxides

Product code	Product name	Pack size	CAS no.
428971000	Benzyltrimethylammonium methoxide, 40 wt.% solution in methanol	100mL	122-08-7
446841000	Lithium tert-butoxide, 0.9M (8 wt.%) solution in 2-MeTHF	100mL	1907-33-1
446848000		800mL	
380151000	Lithium tert-butoxide, 1M solution in hexanes	100mL	1907-33-1
380158000		800mL	
379311000	Lithium tert-butoxide, 2.2M solution in THF	100mL	1907-33-1
379318000		800mL	
380171000	Lithium ethoxide, 1M solution in ethanol	100mL	2388-07-0
380178000		800mL	
380201000	Lithium isopropoxide, 1M solution in hexanes	100mL	2388-10-5
396501000	Lithium isopropoxide, 3M solution in THF	100mL	2388-10-5
396508000		800mL	
336751000	Lithium methoxide, pure, 2.2M (10 wt.%) solution in methanol	100mL	865-34-9
336758000		800mL	
388611000	Lithium phenoxide, 0.6M solution in THF	100mL	555-24-8
433501000	Lithium thiophenolate, 0.6M solution in THF	100mL	2973-86-6
371221000	Potassium tert-butoxide, pure, 1M solution in THF	100mL	865-47-4
371220010		1L	
371220025		2.5L	
426121000	Potassium tert-butoxide, 1M solution in tert-butanol	100mL	865-47-4
426128000		800mL	
428791000	Potassium tert-butoxide, pure, 1.6-1.7M (20 wt.%) solution in THF	100mL	865-47-4
428798000		800mL	
445831000	Potassium tert-butoxide, 2M (25% w/w) solution in 2-MeTHF	100mL	865-47-4
445838000		800mL	
429101000	Potassium methoxide, pure, 0.1N solution in toluene/methanol	100mL	865-33-8
164721000	Potassium tert-pentoxide, 0.9M (14 wt.%) solution in cyclohexane	100mL	41233-93-6
164728000		800mL	
433551000	Sodium benzyloxide, 1M solution in benzyl alcohol	100mL	20194-18-7
429301000	Sodium ethoxide, 21% in ethanol	100mL	141-52-6
429308000		800mL	
427221000	Sodium methoxide, 0.5M solution in methanol	100mL	124-41-4
427228000		800mL	
445881000	Sodium methoxide, ACS reagent, 0.5M solution in methanol	100mL	124-41-4
445888000		800mL	
428361000	Sodium methoxide, 5.4M (30 wt.%) solution in methanol	100mL	124-41-4
428368000		800mL	
252531000	Sodium tert-pentoxide, 40% in 2-MeTHF	100mL	14593-46-5
252538000		800mL	
390151000	Sodium tert-pentoxide, 2.5M (30 wt.%) solution in THF	100mL	14593-46-5
390158000		800mL	
427931000	Zirconium(IV) propoxide, approx. 70% solution in propanol	100mL	23519-77-9
427938000		800mL	

## Silanes

Product code	Product name	Pack size	CAS no.
369101000	tert-Butylchlorodimethylsilane, 1.0M solution in dichloromethane	100mL	18162-48-6
433111000	tert-Butyldimethylsilyl chloride, 50 wt.% solution in toluene	100mL	18162-48-6
428991000	2-(4-Chlorosulfonylphenyl)ethyltrimethoxysilane, 50% solution in dichloromethane	100mL	126519-89-9
433251000	Chlorotriethylsilane, 1M solution in THF	100mL	994-30-9
381601000	Chlorotrimethylsilane, 1M solution in dichloromethane	100mL	75-77-4
381608000		800mL	
428811000	Lithium trimethylsilylanolate, 1M solution in THF	100mL	2004-14-0
428818000		800mL	
448461000	Potassium trimethylsilylanolate, 2M solution in THF	100mL	10519-96-7
448468000		800mL	
428841000	Sodium trimethylsilylanolate, 1M solution in dichloromethane	100mL	18027-10-6
428848000		800mL	
428831000	Sodium trimethylsilylanolate, 1M solution in THF	100mL	18027-10-6
428838000		800mL	
429171000	(Trifluoromethyl)trimethylsilane, 0.5M solution in THF	100mL	81290-20-2

# Reagents in solution

## Other reagents in solution

Product code	Product name	Pack size	CAS no.
301761000	Bis(cyclopentadienyl)dimethyltitanium, 5 wt.% in toluene	100mL	1271-66-5
179561000	Boron tris(trifluoroacetate), 1M solution in trifluoroacetic acid	100mL	350-70-9
429001000	Dess-Martin periodinane, 15 wt.% solution in dichloromethane	100mL	87413-09-0
429021000	N,N'-Dicyclohexylcarbodiimide, 1M solution in dichloromethane	100mL	538-75-0
429041000	Diisopropylphosphine, 10 wt.% solution in hexanes	100mL	20491-53-6
434541000	Dilithium tetrabromonickelate(II), 0.5M solution in THF	100mL	13826-95-4
434548000		800mL	
429051000	Dilithium tetrachlorocuprate, 0.1M solution in THF	100mL	15489-27-7
426801000	Di-tert-butyl dicarbonate, 1M solution in THF	100mL	24424-99-5
426808000		800mL	
429011000	Di-tert-butylphosphine, 0.5M (10 wt.%) solution in hexanes	100mL	819-19-2
438721000	2,3-Dimethyl-2-butene, 1M solution in THF	100mL	563-79-1
429061000	Ethyl ethynyl ether, 40 wt.% solution in hexanes	100mL	927-80-0
446111000	Lithium bis(trimethylsilyl)amide, 15% in 2-MeTHF/ethylbenzene	100mL	4039-32-1
446118000		800mL	
380231000	Lithium bis(trimethylsilyl)amide, 0.9M solution in methylcyclohexane	100mL	4039-32-1
380238000		800mL	
345671000	Lithium bis(trimethylsilyl)amide, 1.0M solution in methyl tert-butyl ether	100mL	4039-32-1
345678000		800mL	
347701000	Lithium bis(trimethylsilyl)amide, 1M solution in THF/ethylbenzene	100mL	4039-32-1
347708000		800mL	
268831000	Lithium diisopropylamide, 2M solution in THF/n-heptane/ethylbenzene	100mL	4111-54-0
268838000		800mL	
432871000	Lithium diisopropylamide mono(tetrahydrofuran), 1.5M solution in cyclohexane	100mL	123333-84-6
432878000		800mL	
433621000	Lithium diphenylphosphide, 0.5M solution in THF	100mL	65567-06-8
389461000	Magnesium bis(diisopropylamide), 0.7M solution in THF	100mL	23293-23-4
389468000		800mL	
428751000	Magnesium methyl carbonate, 0.5M solution in methanol	100mL	4861-79-4
426391000	2-Methyl-2-butene, 2M solution in THF	100mL	513-35-9
428371000	Methyltitanium(IV) triisopropoxide, 1M solution in THF	100mL	18006-13-8
429071000	Nitronium tetrafluoroborate, 0.5M solution in sulfolane	100mL	13826-86-3
429081000	Osmium tetroxide, 2.5 wt.% solution in tert-butanol, stabilized	100mL	20816-12-0
418231000	Potassium bis(trimethylsilyl)amide, 0.7M (15 wt.%) solution in toluene	100mL	40949-94-8
418238000		800mL	
429091000	Potassium hydroxide, 1N solution in ethanol	100mL	1310-58-3
429111000	1-Propanephosphonic acid cyclic anhydride, 50 wt.% solution in dimethylformamide	100mL	68957-94-8
429311000	1-Propanephosphonic acid cyclic anhydride, 50 wt.% solution in ethyl acetate	100mL	68957-94-8
277851000	Sodium bis(trimethylsilyl)amide, pure, 2M solution in THF	100mL	1070-89-9
277858000		800mL	
426061000	Tebbe reagent, 0.5M solution in toluene	100mL	67719-69-1
428951000	Tetrabutylammonium hydroxide, 1M solution in methanol	100mL	2052-49-5
428958000		800mL	
435991000	Tetrabutylammonium phosphate monobasic, 0.4M solution in acetonitrile	100mL	5574-97-0
440061000	Tetrabutylammonium phosphate monobasic, 1M solution in ethanol	100mL	5574-97-0
432991000	Tetrazole, 3 to 4 wt.% solution in acetonitrile	100mL	288-94-8
432990010		1L	
427831000	Tricyclohexylphosphine, 1M solution in THF	100mL	2622-14-2
428421000	Tricyclohexylphosphine, 1M solution in toluene	100mL	2622-14-2
429161000	Triethyloxonium tetrafluoroborate, 1M solution in methylene chloride	100mL	368-39-8
429201000	(Trimethylsilyl)diazomethane, approx. 2M solution in diethyl ether	100mL	18107-18-1
429211000	(Trimethylsilyl)diazomethane, technical, approx. 2.0M solution in hexanes	100mL	18107-18-1

# Organics

## Organics

Organic products in AcroSeal packaging include those prone to oxidation and hydrolysis, as well as those that have strong odors or high toxicity such as aldehydes, amines, epoxides, halides, phosphines, and silanes.

### Aldehydes

Product code	Product name	Pack size	CAS no.
427171000	Acetaldehyde, 99.5%, extra pure	100mL	75-07-0
427178000		800mL	
378361000	Benzaldehyde, 99.5+%, pure, purified by redistillation	100mL	100-52-7
378360010		1L	
427181000	Crotonaldehyde, 99+%	100mL	123-73-9
427188000		800mL	
427191000	4-Fluorobenzaldehyde, 98+%	100mL	459-57-4
196501000	Methacrolein, 95%, stabilized	100mL	78-85-3
427201000	Pivaldehyde, 97%	100mL	630-19-3
427211000	Propionaldehyde, 99+%	100mL	123-38-6

### Amines

Product code	Product name	Pack size	CAS no.
427231000	Benzylamine, 99.5+%	100mL	100-46-9
427238000		800mL	
427241000	tert-Butylamine, 99%	100mL	75-64-9
427248000		800mL	
378301000	Diisopropylamine, 99.5%, purified by redistillation	100mL	108-18-9
378300010		1L	
427251000	Ethanolamine, 99%	100mL	141-43-5
427258000		800mL	
427261000	Ethylenediamine, 99+%	100mL	107-15-3
427268000		800mL	
347671000	2,6-Lutidine, 99%, purified by redistillation	100mL	108-48-5
432801000	N-Methylmorpholine, 99.5%, purified by redistillation	100mL	109-02-4
432800010		1L	
433851000	Morpholine, 99.5%, purified by redistillation	100mL	110-91-8
433858000		800mL	
433841000	Piperidine, 99.5%, purified by redistillation	100mL	110-89-4
433840010		1L	
446141000	Pyrrolidine, 99.5+%, purified by redistillation	100mL	123-75-1
446148000		800mL	
418791000	Quinoline, 99%, purified by redistillation	100mL	91-22-5
433831000	N,N,N',N'-Tetramethylethylenediamine, 99.5%, purified by redistillation	100mL	110-18-9

### Epoxides

Product code	Product name	Pack size	CAS no.
430951000	Allyl glycidyl ether, 99+%	100mL	106-92-3
430958000		800mL	
330070500	1,3-Butadiene diepoxide, 98+%	50mL	1464-53-5
430711000	Epichlorohydrin, 99%	100mL	106-89-8
430718000		800mL	
430861000	(±)-Propylene oxide, 99.5%, extra pure	100mL	75-56-9
430868000		800mL	

## Halides

Product code	Product name	Pack size	CAS no.
220271000	Benzoyl chloride, 99%, pure	100mL	98-88-4
430791000	Ethyl chloroformate, 99%	100mL	541-41-3
430798000		800mL	
430811000	Isobutyl chloroformate, 98%	100mL	543-27-1
168661000	Methacryloyl chloride, 95%, contains 200 ppm MEHQ as stabilizer	100mL	920-46-7
168660010		1L	
430841000	Methyl chloroformate, 99%	100mL	79-22-1
417971000	Phthaloyl chloride, 90%	100mL	88-95-9
417978000		800mL	
430801000	Succinyl chloride, approx. 95%	100mL	543-20-4

## Phosphines

Product code	Product name	Pack size	CAS no.
427270500	Chlorodiisopropylphosphine, 96%	50mL	40244-90-4
427280500	Di-tert-butylchlorophosphine, 96%	50mL	13716-10-4
427290500	Diphenylphosphine, 95%	50mL	829-85-6
427301000	Tri-n-butylphosphine, 95%	100mL	998-40-3
427308000		800mL	
436461000	Trioctylphosphine, 90%, technical grade	100mL	4731-53-7

## Silanes

Product code	Product name	Pack size	CAS no.
430941000	3-Aminopropyltriethoxysilane, 99%	100mL	919-30-2
430948000		800mL	
200941000	BDCS, silylation reagent	100mL	1185092-02-7
200948000		800mL	
430751000	Bromotrimethylsilane, 98%	100mL	2857-97-8
430921000	tert-Butylchlorodiphenylsilane, 98%	100mL	58479-61-1
434021000	Chloro(chloromethyl)dimethylsilane, 98%	100mL	1719-57-9
426431000	Chlorotrimethylsilane, 98%	100mL	75-77-4
434011000	Diacetoxymethylsilane, 98%	100mL	2182-66-3
430901000	Dichloromethylsilane, 97%	100mL	75-54-7
430908000		800mL	
430881000	Dichloromethylsilane, 99+%	100mL	75-78-5
430888000		800mL	
430891000	Dichlorophenylsilane, 97%	100mL	80-10-4
430898000		800mL	
351531000	Dimethoxydimethylsilane, 95+%	100mL	1112-39-6
351530010		1L	
313511000	Ethyltrichlorosilane, 99%	100mL	115-21-9
313510010		1L	
433081000	Ethyltrimethoxysilane, 97%	100mL	5314-55-6
433080010		1L	
433071000	1,1,3,3,5,5-Hexamethyltrisiloxane, 95+%	100mL	1189-93-1
426421000	Iodotrimethylsilane, 95-97%, stabilized	100mL	16029-98-4
432641000	Methyltrimethoxysilane, 97%	100mL	1185-55-3
432640010		1L	
420361000	Tetraethyl orthosilicate, 98%	100mL	78-10-4
420360010		1L	
427331000	Tetramethylsilane, 99%	100mL	75-76-3
426441000	Thiophosgene, 95%	100mL	463-71-8
446161000	Triethylsilane, 99%	100mL	617-86-7
446160010		1L	
422061000	Trimethylsilyl cyanide, 98%	100mL	7677-24-9
433061000	Vinyltrimethoxysilane, 97%	100mL	2768-02-7
433060010		1L	

## Other organics

Product code	Product name	Pack size	CAS no.
430931000	Borane-N,N-diethylaniline complex, 97%	100mL	13289-97-9
430871000 430878000	1-Butanethiol, 98%	100mL 800mL	109-79-5
435641000	N-(Butoxymethyl)acrylamide, 97%	100mL	1852-16-0
427840500	2-Chloro-5,5-dimethyl-1,3,2-dioxaphosphorinane, 97%	50mL	2428-06-0
405731000 405738000	o-Cresol, 99%	100mL 800mL	95-48-7
111411000 111418000	1,5-Cyclooctadiene, 99+%, stabilized, purified by redistillation	100mL 800mL	111-78-4
430741000	cis-1,4-Dichloro-2-butene, 95%	100mL	1476-11-5
446181000	N,N'-Diisopropylcarbodiimide, 99%	100mL	693-13-0
446151000 446150000	N,N-Dimethylformamide dimethyl acetal, approx. 97%	100mL 1L	4637-24-5
430831000 430830010	Dimethyl sulfate, 99+%	100mL 1L	77-78-1
430851000 430850010	1,1,1,3,3,3-Hexamethyldisilazane, 98%	100mL 1L	999-97-3
120751000 120750010	1-Hexene, 99%	100mL 1L	592-41-6
187621000 187620010	Iron(0) pentacarbonyl	100mL 1L	13463-40-6
381711000	1-Methoxy-2-methyl-2-propanol, 98%	100mL	3587-64-2
430821000	Methyl disulfide, 99%	100mL	624-92-0
431791000 431790010	4,4'-Methylenebis(cyclohexyl isocyanate), 90%, mixture of isomers	100mL 1L	5124-30-1
150751000	Methyl isothiocyanate, 97%	100mL	556-61-6
430731000	1-Pentene, 97%	100mL	109-67-1
429261000 429268000	Propylene carbonate, 99.5%, anhydrous	100mL 800mL	108-32-7
430721000 430728000	Thiophenol, 99%	100mL 800mL	108-98-5
430761000	p-Toluenesulfonyl isocyanate, 96%	100mL	4083-64-1
428661000 428668000	Tributyl borate, 98%	100mL 800mL	688-74-4
428651000 428658000	Triethyl borate, 97%	100mL 800mL	150-46-9
429271000 429278000	Triethyl orthoformate, 98%, anhydrous	100mL 800mL	122-51-0
427141000 427148000	Triisopropyl borate, 98+%	100mL 800mL	5419-55-6
346121000 346128000	Trimethyl borate, 99%	100mL 800mL	121-43-7
429281000 429288000	Trimethyl orthoformate, 99+%, anhydrous	100mL 800mL	149-73-5

# How to use AcroSeal packaging

For best results from AcroSeal packaging, we recommend the following process

1. Puncture the septum.
2. Withdraw the required amount.
3. Replace the nitrogen blanket.
4. Store upright to prevent prolonged product contact with the seal.

## Tip

To get the best results from the septum, we recommend you use 18 to 21 gauge needles and puncture in a clock face pattern to avoid piercing the septum in the same place.

If you require a large amount of solvent remove the whole cap under an inert atmosphere and decant the desired amount of product from the bottle.

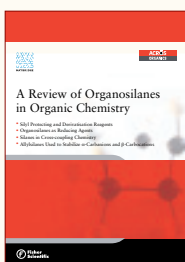
## Related resources



### AcroSeal video

This video highlights how you can use our unique AcroSeal packaging to keep your air- and moisture-sensitive solvents and reagents drier for longer.

View the video at [www.acros.com](http://www.acros.com)



### A Review of Organosilanes in Organic Chemistry

This white paper covers four of the most important applications of organosilanes in synthetic organic chemistry. Included are silyl protecting and derivatisation reagents, organosilanes as reducing agents, silanes in cross-coupling chemistry, and allylsilanes used to stabilize  $\alpha$ -carbanions and  $\beta$ -carbocations.

Visit [www.acros.com](http://www.acros.com) › [tech support](#) › [literature](#) › [list](#) to download a PDF.

# Alphabetical index

Compound name	Page no.	Compound name	Page no.	Compound name	Page no.
Acetaldehyde.....	18	3-Chloro-5-fluorophenylmagnesium bromide.....	8	Dimethyl sulfate.....	20
Acetone.....	5	4-Chloro-3-fluorophenylmagnesium bromide.....	8	Dimethylzinc.....	12
Acetone-d6.....	7	Chloroform.....	5	1,4-Dioxane.....	5, 7
Acetonitrile.....	5	Chloroform-d.....	7	(1,3-Dioxan-2-ylethyl)magnesium bromide.....	8
Acetonitrile-d3.....	7	4-Chloro-2-methylphenylmagnesium bromide.....	8	1,3-Dioxolane.....	6
Acetyl chloride.....	14	3-Chlorophenylmagnesium bromide.....	8	(1,3-Dioxolan-2-ylmethyl)magnesium bromide.....	8
Allyl glycidyl ether.....	8	4-Chlorophenylmagnesium bromide.....	8	Diphenylphosphine.....	19
Allylmagnesium bromide.....	18	2-(4-Chlorosulfonylphenyl)ethyltrimethoxysilane.....	16	Dodecane.....	6
Allylmagnesium chloride.....	8	5-Chloro-2-thienylmagnesium bromide.....	8	Epichlorohydrin.....	18
3-Aminopropyltriethoxysilane.....	19	Chlorotriethylsilane.....	16	Ethanol.....	6
Ammonia.....	13	Chlorotrimethylsilane.....	16, 19	Ethanolamine.....	18
Ammonium fluoride.....	14	o-Cresol.....	20	Ethyl acetate.....	6-7
Anisole.....	5	Crotonaldehyde.....	18	Ethylaluminium dichloride.....	11
Antimony(V)-chloride.....	14	Cyanogen bromide.....	14	Ethylaluminium sesquichloride.....	11
BDCS.....	19	Cyclohexane.....	5	Ethylamine.....	13
Benzaldehyde.....	18	Cyclohexylmagnesium chloride.....	8	Ethylbenzene.....	6
Benzoyl chloride.....	19	Cyclohexylmethylmagnesium bromide.....	8	Ethyl chloroformate.....	19
Benzyl alcohol.....	5	1,5-Cyclooctadiene.....	20	Ethylenediamine.....	18
Benzylamine.....	18	Cyclopentane.....	5	Ethyl ethynyl ether.....	17
Benzyl chloroformate.....	14	Cyclopentylmagnesium bromide.....	8	Ethyl formate.....	6
Benzylmagnesium chloride.....	8	Cyclopentylmagnesium chloride.....	8	(2-Ethylhexyl)magnesium bromide.....	8
2-Benzyloxyphenylmagnesium bromide.....	8	Cyclopentyl methyl ether.....	5	Ethylmagnesium bromide.....	8-9
4-Benzyloxyphenylmagnesium bromide.....	8	Cyclopropylmagnesium bromide.....	8	Ethylmagnesium chloride.....	9
Benzyltrimethylammonium methoxide.....	16	Cyclopropylzinc bromide.....	12	4-Ethylphenylmagnesium bromide.....	9
4-Biphenylmagnesium bromide.....	8	Decane.....	5	Ethyltrichlorosilane.....	19
Bis(cyclopentadienyl)dimethyltitanium.....	17	Dess-Martin periodinane.....	17	Ethyltrimethoxysilane.....	19
[Bis(2-methoxyethyl)amino]sulfur trifluoride.....	14	Deuterium chloride.....	7	Ethynylmagnesium bromide.....	9
Bis(2-methoxyethyl) ether.....	5	Deuterium oxide.....	7	Ethynylmagnesium chloride.....	9
3,5-Bis(trifluoromethyl)phenylmagnesium bromide.....	8	Diacetoxydimethylsilane.....	19	4-Fluorobenzaldehyde.....	18
9-Borabicyclo[3.3.1]nonane.....	13	Dibutylboron trifluoromethanesulfonate.....	13	4-Fluorobenzylmagnesium chloride.....	9
9-Borabicyclo[3.3.1]nonyl trifluoromethanesulfonate.....	13	Di-tert-butylchlorophosphine.....	19	4-Fluorobenzylzinc chloride.....	12
Borane-N,N-diethylaniline complex.....	20	Di-tert-butyl dicarbonate.....	17	3-Fluoro-4-methoxyphenylmagnesium bromide.....	9
Borane-methyl sulfide complex.....	13	Di-n-butyl ether.....	5	5-Fluoro-2-methoxyphenylmagnesium bromide.....	9
Borane-pyridine complex.....	13	Di-n-butylmagnesium.....	8	3-Fluoro-4-methylphenylmagnesium bromide.....	9
Borane-tetrahydrofuran complex.....	13	Di-tert-butylphosphine.....	17	4-Fluoro-2-methylphenylmagnesium bromide.....	9
Boron tribromide.....	14	1,2-Dichlorobenzene.....	5	4-Fluoro-3-methylphenylmagnesium bromide.....	9
Boron tribromide dimethyl sulfide.....	14	cis-1,4-Dichloro-2-butene.....	20	5-Fluoro-2-methylphenylmagnesium bromide.....	9
Boron trichloride.....	14	1,2-Dichloroethane.....	5	3-Fluoro-2-methylphenylmagnesium chloride.....	9
Boron trifluoride.....	14	Dichloromethane.....	5, 7	3-Fluorophenylmagnesium bromide.....	9
Boron trifluoride dibutyl etherate.....	14	Dichloromethane-d2.....	7	4-Fluorophenylmagnesium bromide.....	9
Boron trifluoride etherate.....	14	Dichloromethylsilane.....	19	n-Heptane.....	6-7
Boron trifluoride-propanol.....	14	3,4-Dichlorophenylmagnesium bromide.....	8	Heptylmagnesium bromide.....	9
Boron tris(trifluoroacetate).....	17	3,5-Dichlorophenylmagnesium bromide.....	8	n-Hexadecane.....	6
Bromine.....	14	Dichlorophenylsilane.....	19	1,1,1,3,3,3-Hexamethylidisilazane.....	20
Bromine-1,4-dioxane complex.....	14	N,N'-Dicyclohexylcarbodiimide.....	17	1,1,3,3,5,5-Hexamethyltrisiloxane.....	19
2-Bromobenzylmagnesium bromide.....	8	Diethoxymethane.....	5	n-Hexane.....	6
3-Bromobenzylmagnesium bromide.....	8	Diethylaluminium chloride.....	11	1-Hexene.....	20
Bromotrimethylsilane.....	19	Diethylaluminium iodide.....	11	Hexyl alcohol.....	6
1,3-Butadiene diepoxide.....	18	Diethyl ether.....	5	n-Hexyllithium.....	11
1-Butanethiol.....	20	Diethylmethoxyborane.....	13	Hexylmagnesium bromide.....	9
1-Butanol.....	5	Diethylzinc.....	12	Hexylmagnesium chloride.....	9
2-Butanone.....	5	3,4-Difluorophenylmagnesium bromide.....	8	Hydrogen bromide.....	14
3-Butenylmagnesium bromide.....	8	3,5-Difluorophenylmagnesium bromide.....	8	Hydrogen chloride.....	14
N-(Butoxymethyl)acrylamide.....	20	Diisobutylaluminium chloride.....	11	Iodine monobromide.....	14
n-Butyl acetate.....	5, 7	Diisobutylaluminium hydride.....	15	Iodine monochloride.....	14
tert-Butylamine.....	18	(+)-Diisopinocampheylchloroborane.....	13	Iodomethane.....	14
n-Butyl-sec-butylmagnesium.....	8	Diisopropylamine.....	18	Iodotrimethylsilane.....	19
tert-Butylchlorodimethylsilane.....	16	N,N'-Diisopropylcarbodiimide.....	20	Iron(0) pentacarbonyl.....	20
tert-Butylchlorodiphenylsilane.....	19	Diisopropylphosphine.....	17	Isobutyl chloroformate.....	19
tert-Butyldimethylsilyl chloride.....	16	Dilithium tetrabromonickelate(II).....	17	Isobutylolithium.....	11
n-Butylethylmagnesium.....	8	Dilithium tetrachlorocuprate.....	17	Isobutylmagnesium bromide.....	9
n-Butyllithium.....	11	Dimethoxydimethylsilane.....	19	Isobutylmagnesium chloride.....	9
sec-Butyllithium.....	11	N,N-Dimethylacetamide.....	5	Isopropanol.....	6-7
tert-Butyllithium.....	11	Dimethylaluminium chloride.....	11	Isopropenylmagnesium bromide.....	9
n-Butylmagnesium chloride.....	8	Dimethylamine.....	13	Isopropylmagnesium bromide.....	9
sec-Butylmagnesium chloride.....	8	2,3-Dimethyl-2-butene.....	17	Isopropylmagnesium chloride.....	9
tert-Butylmagnesium chloride.....	8	Dimethyl carbonate.....	5	Isopropylmagnesium chloride - lithium chloride complex.....	9
tert-Butyl methyl ether.....	5	N,N-Dimethylformamide.....	5, 7	4-Isopropylphenylmagnesium bromide.....	9
4-tert-Butylphenylmagnesium bromide.....	8	N,N-Dimethylformamide dimethyl acetal.....	20	Lithium acetylde ethylenediamine complex.....	11
Catecholborane.....	13	3,5-Dimethyl-4-methoxyphenylmagnesium bromide.....	8	Lithium aluminium hydride.....	15
Chlorobenzene.....	5	2,3-Dimethylphenylmagnesium bromide.....	8	Lithium aluminium hydride bis(tetrahydrofuran).....	15
1-Chlorobutane.....	5	2,4-Dimethylphenylmagnesium bromide.....	8	Lithium bis(trimethylsilyl)amide.....	17
Chloro(chloromethyl)dimethylsilane.....	19	2,5-Dimethylphenylmagnesium bromide.....	8	Lithium borohydride.....	15
Chlorodiisopropylphosphine.....	19	2,6-Dimethylphenylmagnesium bromide.....	8	Lithium bromide.....	14
2-Chloro-5,5-dimethyl-1,3,2-dioxaphosphorinane.....	20	3,4-Dimethylphenylmagnesium bromide.....	8	Lithium tert-butoxide.....	16
3-Chloro-4-fluorophenylmagnesium bromide.....	8	3,5-Dimethylphenylmagnesium bromide.....	8	Lithium diisopropylamide.....	17



# Alphabetical index

Compound name	Page no.	Compound name	Page no.	Compound name	Page no.
Lithium diisopropylamide mono(tetrahydrofuran)	17	n-Nonane	6	Tetrahydrofuran	6
Lithium diphenylphosphide	17	Nonylmagnesium bromide	10	4-(2-Tetrahydro-2H-pyranoxyl)phenylmagnesium bromide	10
Lithium ethoxide	16	Octadecylmagnesium chloride	10	Tetraisobutylaluminum oxane	11
Lithium isopropoxide	16	n-Octane	6	N,N,N',N'-Tetramethylethylenediamine	18
Lithium methoxide	16	1-Octanol	6	Tetramethylsilane	19
Lithium phenoxide	16	Octylmagnesium bromide	10	Tetrazole	17
Lithium thiophenolate	16	Octylmagnesium chloride	10	2-Thienylmagnesium bromide	10
Lithium tri-tert-butoxyaluminumhydride	15	Osmium tetroxide	17	3-Thienylmagnesium iodide	10
Lithium tri-sec-butylborohydride	15	Oxalyl chloride	14	4-Thioanisolemagnesium bromide	10
Lithium trimethylsilanolate	16	Pentadecylmagnesium bromide	10	Thionyl chloride	14
Lithium (trimethylsilyl)acetylide	11	Pentafluorophenylmagnesium bromide	10	Thiophenol	20
Lithium tris[(3-ethyl-3-pentyl)oxy]aluminumhydride	15	Pentamethylenebis(magnesium bromide)	10	Thiophosgene	19
Lithium trisiamylborohydride	15	n-Pentane	6	Tin(IV) chloride	15
2,6-Lutidine	18	2-Pentanone	7	Titanium(III) chloride	15
Magnesium bis(diisopropylamide)	17	1-Pentene	20	Titanium(IV) chloride	15
Magnesium methyl carbonate	17	Pentylmagnesium bromide	10	Toluene	7
2-Mesitylmagnesium bromide	9	Pentylmagnesium chloride	10	Toluene-d8	7
Methacrolein	18	Petroleum ether	6	p-Toluenesulfonyl isocyanate	20
Methacryloyl chloride	19	9-Phenanthrylmagnesium bromide	10	o-Tolylmagnesium bromide	10
Methanol	6-7	Phenethylmagnesium chloride	10	p-Tolylmagnesium bromide	10
Methanol-d4	7	4-Phenoxyphenylmagnesium bromide	10	m-Tolylmagnesium chloride	10
2-Methoxybenzylmagnesium chloride	9	Phenyllithium	11	o-Tolylmagnesium chloride	10
3-Methoxybenzylmagnesium chloride	9	Phosphorus tribromide	14	p-Tolylmagnesium chloride	10
4-Methoxybenzylmagnesium chloride	9	Phosphorus trichloride	14	Tributylborane	13
2-Methoxyethanol	6	Phthaloyl chloride	19	Tributyl borate	20
4-Methoxy-2-methylphenylmagnesium bromide	9	Piperidine	18	Tri-n-butylphosphine	19
1-Methoxy-2-methyl-2-propanol	20	[2-(1-Piperidinylmethyl)phenyl]magnesium bromide	10	Tricyclohexylphosphine	17
6-Methoxy-2-naphthylmagnesium bromide	9	[3-(1-Piperidinylmethyl)phenyl]magnesium bromide	10	Triethylaluminium	11
4-Methoxyphenethylmagnesium chloride	9	[4-(1-Piperidinylmethyl)phenyl]magnesium bromide	10	Triethylborane	13
2-Methoxyphenylmagnesium bromide	9	Pivaldehyde	18	Triethyl borate	20
3-Methoxyphenylmagnesium bromide	9	Potassium bis(trimethylsilyl)amide	17	Triethyl orthoformate	20
4-Methoxyphenylmagnesium bromide	9	Potassium tert-butoxide	16	Triethylxonium tetrafluoroborate	17
Methyl acetate	6	Potassium hydroxide	17	Triethylsilane	19
2-Methylallylmagnesium chloride	9	Potassium methoxide	16	Trimethylsilyl cyanide	19
Methylamine	13	Potassium tert-pentoxide	16	(Trifluoromethyl)trimethylsilane	16
2-Methylbenzylmagnesium chloride	9	Potassium tri-sec-butylborohydride	15	3,4,5-Trifluorophenylmagnesium bromide	10
3-Methylbenzylmagnesium chloride	9	Potassium triisopropoxyborohydride	15	Triisobutylaluminium	11
4-Methylbenzylmagnesium chloride	9	Potassium trimethylsilanolate	16	Triisopropyl borate	20
2-Methylbutane	6	1-Propanephosphonic acid cyclic anhydride	17	3,4,5-Trimethoxyphenylmagnesium bromide	10
3-Methyl-1-butanol	6-7	1-Propanol	6	Trimethylaluminium	11
2-Methyl-2-butene	17	Propargyl bromide	14	Trimethylamine	13
(R)-(+)-2-Methyl-CBS-oxazaborolidine	13	Propionaldehyde	18	Trimethyl borate	20
(S)-(-)-2-Methyl-CBS-oxazaborolidine	13	1-Propenylmagnesium bromide	10	Trimethylboroxine	13
Methyl chloroformate	19	Propylene carbonate	20	Trimethyl orthoformate	20
Methylcyclohexane	6	(±)-Propylene oxide	18	2,2,4-Trimethylpentane	7
Methyl disulfide	20	Propylmagnesium chloride	10	(Trimethylsilyl)diazomethane	17
4,4'-Methylenebis(cyclohexyl isocyanate)	20	4-n-Propylphenylmagnesium bromide	10	(Trimethylsilyl)methylolithium	11
3,4-(Methylenedioxy)phenylmagnesium bromide	9	1-Propynylmagnesium bromide	10	(Trimethylsilyl)methylmagnesium chloride	10
Methyl isothiocyanate	20	Pyridine	6	Trimethyltin chloride	12
Methylolithium	11	2-Pyridylzinc bromide	12	Tri-n-octylaluminium	11
Methylolithium-lithium bromide complex	11	Pyrrrolidine	18	Triocetylphosphine	19
Methylmagnesium bromide	9-10	[2-(1-Pyrrolidinylmethyl)phenyl]magnesium bromide	10	Vanadium(II) chloride-tetrahydrofuran complex (1:3)	15
Methylmagnesium chloride	10	[3-(1-Pyrrolidinylmethyl)phenyl]magnesium bromide	10	Vinyl bromide	15
Methylmagnesium iodide	10	[4-(1-Pyrrolidinylmethyl)phenyl]magnesium bromide	10	Vinylmagnesium bromide	10
N-Methylmorpholine	18	Quinoline	18	Vinylmagnesium chloride	10
2-Methyl-1-naphthylmagnesium bromide	10	Samarium(II) iodide, 0.1M solution in THF	14	Vinyltrimethoxysilane	19
4-Methyl-1-naphthylmagnesium bromide	10	Silicon(IV) chloride	14	m-Xylene	7
2-Methyl-2-phenylpropylmagnesium chloride	10	Sodium acetylide	12	o-Xylene	7
2-Methyl-1-propanol	6	Sodium benzyloxide	16	Xylenes	7
1-Methyl-1-propenylmagnesium bromide	10	Sodium bis(2-methoxyethoxy)aluminium hydride	15	Zinc chloride	15
2-Methyl-1-propenylmagnesium bromide	10	Sodium bis(trimethylsilyl)amide	17	Zirconium(IV) propoxide	16
1-Methyl-2-pyrrolidinone	6	Sodium borohydride	15		
Methyl sulfoxide	6	Sodium cyanoborohydride	15		
Methyl sulfoxide-d6	7	Sodium ethoxide	16		
2-Methyltetrahydrofuran	6	Sodium methoxide	16		
3-Methyl-2-thienylmagnesium bromide	10	Sodium tert-pentoxide	16		
Methyltitanium(IV) triisopropoxide	17	Sodium tri-sec-butylborohydride	15		
Methyltrimethoxysilane	19	Sodium triethylborohydride	15		
Methylzinc chloride	12	Sodium trimethylsilanolate	16		
Morpholine	18	Succinyl chloride	19		
[2-(4-Morpholinylmethyl)phenyl]magnesium bromide	10	Sulfuryl chloride	14		
[3-(4-Morpholinylmethyl)phenyl]magnesium bromide	10	Tebbe reagent	17		
[4-(4-Morpholinylmethyl)phenyl]magnesium bromide	10	Tetrabutylammonium fluoride	15		
1-Naphthylmagnesium bromide	10	Tetrabutylammonium hydroxide	17		
2-Naphthylmagnesium bromide	10	Tetrabutylammonium phosphate monobasic	17		
Nitronium tetrafluoroborate	17	Tetraethyl orthosilicate	19		

For more information please contact your local distributor.

**ACRÖS**  
**ORGANICS**

A Thermo Fisher Scientific Brand

©2015 Thermo Fisher Scientific Inc. All rights reserved.  
These brands and trademarks are part of Thermo Fisher Scientific Inc. and its subsidiaries.

Thermo Fisher Scientific  
ENA 23, Zone 1, nr 1350  
Janssen Pharmaceuticaaan 3a  
2440 Geel  
Belgium  
[www.acros.com](http://www.acros.com)

**KEFO**®