

AcroSeal™

Extra Dry Solvents
Organometallic Compounds
Reagent In Solution
Deuterated Solvents
Organics



AcroSeal Packaging Is Your Solution for Air & Moisture Sensitive Reagents

Offering 50% more products in AcroSeal Packaging



AcroSeal Packaging Is Your Solution For Air And Moisture Sensitive Reagents

AcroSeal packaging is the industry-leading packaging for air and moisture sensitive reagents. The AcroSeal packaging is designed to deliver the best performance among the comparable packagings in the marketplace.

The innovative quadrant style screw cap with the specially designed septum provides:

- **Convenience:** large surface area with easy access to large amount of products.
- **Quality:** the specially designed multi-layer septum ensures better re-seal.
- **Performance:** reduces the rate of moisture uptake by up to 50% compared to the competitive packaging.
- **Safety:** minimizes the potential needle puncture-related incidents

Features and Benefits

The key features and benefits of AcroSeal Packaging can be most demonstrated for the extra dry solvents:

Reliability: AcroSeal packaging uses a specially designed, multi-layer septum consisting of a sandwich of three layers of engineering polymer material - an inner silicone layer surrounded by PTFE resin layers. The thickness of AcroSeal septum is twice as much as that of the septum used in the competitive brand packaging. The thick inner silicone layer allows for better resealing around needle punctures. The outer PTFE layers ensure the chemical compatibility of the septum material with the reagents.

Integrity: AcroSeal closure system features a quadrant-style cap design that holds the septum in place, reducing the risk of bulging or deformation mechanically or through use over time. AcroSeal packaging has a tamper evident seal to assure that the bottle is visibly unopened and the quality has not been compromised.

Convenience: AcroSeal packaging is designed to provide a larger surface area available for syringe punctures, providing more than 15 times the surface area than the septum of the competing brand. The larger surface area makes it possible to avoid repeated puncture in the same spot over time, therefore reducing the risk of deformation and providing better resealing.

The AcroSeal packaging screw closure allows not only syringe withdrawal of a reagent through the septum but also permits ready access to a larger volume of the solvent with the option to reseal the closure by hand. By contrast, the competing brand has a crimp cap design, meaning that the reagent within is only accessible with a syringe unless a special tool is used. Once de-crimped, the cap cannot be replaced.

Safety: Because the use of the products involve syringe and needles, it is important that the packaging is designed in such a way that the potential risk of needle puncture can be minimized. AcroSeal packaging requires 40% less force to puncture through the septum than the competitive brand packaging. The greater the force required to puncture through the septum, the more likely for needle puncture-related accidents to occur.

Performance: Moisture uptake studies have shown that overall the AcroSeal packaging with its particular closure design appears to allow a slower rate of moisture uptake than the familiar competing brand's closure design.



Product Range:

We offer a wide range of air and moisture sensitive reagents in AcroSeal packaging. We are continuing to expand the product offering in this packaging.

1) AcroSeal Extra Dry Solvents: We offer a wide range of solvents in three different grades with moisture content of less than 50ppm at the time of packing

- **Standard Grade:** Suitable for most of the applications.
- **Molecular Sieves Grade:** Stored over molecular sieves for prolonged shelf life.
- **Supreme Grade:** Filtered through 0.2 micro filters for dust-free applications.

Product Description	Standard*	Mol. Sieves	Supreme
Acetone			326801000, 100ML 326800010, 1L
Acetonitrile	610961000, 100ML 610220010, 1L	364311000, 100ML 364315000, 500ML 364310010, 1L 364310025, 2.5L	326811000, 100ML 326810010, 1L 326810025, 2.5L
Benzyl Alcohol			396881000, 100ML 396880010, 1L
Bis(2-methoxyethyl) Ether			397211000, 100ML 397210010, 1L
1-Butanol	610251000, 100ML		398961000, 100ML 398960010, 1L
2-Butanone			396951000, 100ML 396950010, 1L
Chloroform Stabilized		364321000, 100ML 364320010, 1L	326821000, 100ML 326820010, 1L 326820025, 2.5L
Chlorobenzene	610281000, 100ML		396971000, 100ML 396970010, 1L
Cyclohexane	610291000, 100ML	364661000, 100ML 364660010, 1L 364660025, 2.5L	326831000, 100ML 326830010, 1L 326830025, 2.5L
Cyclopentane			397681000, 100ML 397680010, 1L
Cyclopentyl Methyl Ether			397251000, 100ML 397250010, 1L
1,2-Dichlorobenzene			396961000, 100ML 396960010, 1L
1,2-Dichloroethane			326841000, 100ML 326840010, 1L
Dichloromethane	610300010, 1L 610931000, 100ML		
Dichloromethane Stabilized		348461000, 100ML 348465000, 500ML 348460010, 1L 348460025, 2.5L	326851000, 100ML 326850010, 1L 326850025, 2.5L

*The standard grade is only available in North America region (except for Ethylene Glycol Dimethyl Ether - 61035, Hexanes - 61037, and sec-Butanol - 61026).
Not all the products are available in all the regions. Contact your local sales representative for details.
Add "AC" in front of the part number for North America region.

AcroSeal EXTRA DRY SOLVENTS

Product Description	Standard*	Mol. Sieves	Supreme
Diethyl Ether Stabilized		364331000, 100ML 364335000, 500ML 364330010, 1L 364330025, 2.5L	326861000, 100ML 326860010, 1L
Di-n-butyl Ether			396911000, 100ML 396910010, 1L
1,4-Dioxane, Stabilized		364341000, 100ML 364340010, 1L 364340025, 2.5L	326891000, 100ML 326890010, 1L 326890025, 2.5L
1,4-Dioxane	615121000, 100ML 615120010, 1L		
Ethanol			397691000, 100ML 397690010, 1L 397690025, 2.5L
Ethyl Acetate	610341000, 100ML	364351000, 100ML 364350010, 1L 364350025, 2.5L	326901000, 100ML 326900010, 1L 326900025, 2.5L
Ethylene Glycol Dimethyl Ether	610351000, 100ML 610350010, 1L		
Hexanes	610371000, 100ML 610370010, 1L		
Isopropanol	610381000, 100ML 610431000, 100ML	364401000, 100ML 364400010, 1L 364400025, 2.5L	326961000, 100ML 326960010, 1L 326960025, 2.5L
Methanol	610981000, 100ML 610400010, 1L	364391000, 100ML 364395000, 500ML 364390010, 1L 364390025, 2.5L	326951000, 100ML 326950010, 1L
2-Methoxyethanol	610391000, 100ML		396891000, 100ML 396890010, 1L
Methyl Acetate			371831000, 100ML 371830010, 1L 371830025, 2.5L
2-Methylbutane			397221000, 100ML 397220010, 1L
Methylcyclohexane			397241000, 100ML 397240010, 1L
2-Methyl-1-Propanol			398951000, 100ML 398950010, 1L
1-Methyl-2-Pyrrolidinone	610411000, 100ML	364381000, 100ML 364380010, 1L 364380025, 2.5L	326931000, 100ML 326930010, 1L 326930025, 2.5L
Methyl Sulfoxide	610971000, 100ML 610421000, 100ML 610420010, 1L	348441000, 100ML 348445000, 500ML 348440010, 1L 348440025, 2.5L	326881000, 100ML 326880010, 1L 326880025, 2.5L
2-Methyltetrahydrofuran, Stabilized		396631000, 100ML 396630010, 1L	396621000, 100ML 396620010, 1L
2-Methyltetrahydrofuran			397201000, 100ML 397200010, 1L
m-Xylene	610471000, 100ML		
N,N-Dimethylacetamide	610311000, 100ML	375231000, 100ML 375230010, 1L	396351000, 100ML 396350010, 1L
N,N-Dimethylformamide	610941000, 100ML 610321000, 100ML 610320010, 1L	348431000, 100ML 348435000, 500ML 348430010, 1L 348430025, 2.5L	326871000, 100ML 326870010, 1L 326870025, 2.5L

*The standard grade is only available in North America region (except for Ethylene Glycol Dimethyl Ether - 61035, Hexanes - 61037, and sec-Butanol - 61026).

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Convenience: AcroSeal packaging is designed to provide a larger surface area available for syringe punctures, providing more than 15 times the surface area than the septum of the competing brand. The larger surface area makes it possible to avoid repeated puncture in the same spot over time, therefore reducing the risk of deformation and providing better resealing.

The AcroSeal packaging screw closure allows not only syringe withdrawal of a reagent through the septum but also permits ready access to a larger volume of the solvent with the option to reseal the closure by hand. By contrast, the competing brand has a crimp cap design, meaning that the reagent within is only accessible with a syringe unless a special tool is used. Once decrimped, the cap cannot be replaced.

Product Description	Standard*	Mol. Sieves	Supreme
n-Heptane	610361000, 100ML	364361000, 100ML 364360010, 1L 364360025, 2.5L	326911000, 100ML 326910010, 1L
n-Hexane		364371000, 100ML 364370010, 1L	326921000, 100ML 326920010, 1L 326920025, 2.5L
n-Octane			396901000, 100ML 396900010, 1L
n-Pentane			397231000, 100ML 397230010, 1L
Petroleum Ether			396921000, 100ML 396920010, 1L
1-Propanol			396941000, 100ML 396940010, 1L
Pyridine	610991000, 100ML 610440010, 1L	364421000, 100ML 364420010, 1L 364420025, 2.5L	339421000, 100ML 339420010, 1L 339420025, 2.5L
sec-Butanol	610261000, 100ML 610260010, 1L		
Tert-Butyl Methyl Ether	610271000, 100ML	375221000, 100ML 375220010, 1L	375211000, 100ML 375210010, 1L
Tetrahydrofuran	610921000, 100ML 610450010, 1L		
Tetrahydrofuran Stabilized	610911000, 100ML 610900010, 1L	348451000, 100ML 348455000, 500ML 348450010, 1L 348450025, 2.5L	326971000, 100ML 326970010, 1L 326970025, 2.5L
2,2,4-Trimethylpentane			326941000, 100ML 326940010, 1L
Toluene	610951000, 100ML 610460010, 1L	364411000, 100ML 364415000, 500ML 364410010, 1L 364410025, 2.5L	326981000, 100ML 326980010, 1L 326980025, 2.5L
Xylenes			396931000, 100ML 396930010, 1L

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AcroSeal

ORGANOMETALLIC COMPOUNDS



2) AcroSeal Organometallic Compounds: Products offered in the AcroSeal packaging include organolithium, Grignard reagents, organotin, organozinc and organoaluminum compounds. Most of the products are offered in two pack sizes, 100mL and 800mL. The septum used for organometallic compounds is a 3mm Teflon faced (one side) rubber septum.

Classification	Product Description	Pack Size	Part Number
Grignard Reagents	Allylmagnesium bromide, 1M solution in diethyl ether, AcroSeal	100ML	209531000
		800ML	209538000
	Allylmagnesium chloride, 1.7M solution in THF, AcroSeal	100ML	209671000
		800ML	209678000
	Benzylmagnesium chloride, 1.5M solution in THF, AcroSeal	100ML	389551000
		800ML	389558000
	3,5-Bis(trifluoromethyl)phenylmagnesium bromide , 0.5M solution in THF, AcroSeal	100ML	392151000
	3-Butenylmagnesium bromide, 0.5M solution In THF, AcroSeal	100ML	427461000
		800ML	427468000
	n-Butylethylmagnesium, 0.9M solution in heptane, AcroSeal	100ML	381181000
		800ML	381188000
	n-Butylmagnesium chloride, 20 wt% solution in THF/Toluene, AcroSeal	100ML	331681000
	4-Chloro-3-fluorophenylmagnesium bromide, 0.5M solution in THF, AcroSeal	100ML	399081000
	3-Chlorophenylmagnesium bromide, 0.5M solution in THF, AcroSeal	100ML	397491000
	4-Chlorophenylmagnesium bromide, 1M solution in diethyl ether, AcroSeal	100ML	377401000
		800ML	377408000
	4-Chlorophenylmagnesium bromide, 1M solution in THF/toluene, AcroSeal	100ML	377251000
		800ML	377258000
	Cyclohexylmagnesium chloride, 1.3M solution in THF/toluene, AcroSeal	100ML	377341000
		800ML	377348000
	Cyclopentylmagnesium bromide, 2.0M solution In diethyl ether, AcroSeal	100ML	427451000
		800ML	427458000
	Cyclopentylmagnesium chloride, 2M solution In diethyl ether, AcroSeal	100ML	208461000
		800ML	208468000
	Cyclopropylmagnesium bromide, 0.5M solution in THF, AcroSeal	100ML	397611000
	Di-n-butylmagnesium, 0.5M solution in heptane, AcroSeal	100ML	377771000
		800ML	377778000
	Ethylmagnesium bromide, ca. 3.2M in 2-methyltetrahydrofuran, AcroSeal	100ML	183531000
		800ML	183538000
	3,4-Difluorophenylmagnesium bromide, 0.5M solution in THF, AcroSeal	100ML	399511000
	3,5-Difluorophenylmagnesium bromide, 0.5M solution In THF, AcroSeal	100ML	427441000
	2,2-Dimethylpropylmagnesium chloride, 1.0M solution In Diethyl Ether, AcroSeal	100ML	427431000
	Ethylmagnesium bromide, 3M in Diethyl ether, AcroSeal	100ML	347291000
800ML		347298000	
Ethylmagnesium bromide, ca. 3.2M in 2-Methyltetrahydrofuran, AcroSeal	100ML	183531000	
	800ML	183538000	
Ethylmagnesium bromide, 0.9M in tert-Butyl methyl ether, AcroSeal	100ML	347281000	
	800ML	347288000	
Ethylmagnesium bromide, 1M solution in THF, AcroSeal	100ML	210471000	
	800ML	210478000	
	2.4L	252570024	
Ethylmagnesium chloride, 25 wt% solution in THF, AcroSeal	100ML	252571000	
	800ML	252578000	
Ethylmagnesium chloride, 2.0M solution in THF, AcroSeal	100ML	377281000	
	800ML	377288000	
Ethylmagnesium chloride, 0.6M solution in THF/Toluene, AcroSeal	100ML	388951000	
	800ML	388958000	
4-Fluorobenzylmagnesium chloride, 0.25M solution in THF, AcroSeal	50ML	426790500	
4-Fluorophenylmagnesium bromide, 0.8M solution in THF, AcroSeal	100ML	377231000	
	800ML	377238000	

Not all the products are available in all the regions. Contact your local sales representative for details.
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Integrity: AcroSeal closure system features a quadrant-style cap design that holds the septum in place, reducing the risk of bulging or deformation mechanically or through use over time. AcroSeal packaging has a tamper evident seal to assure that the bottle is visibly unopened and the quality has not been compromised.

Classification	Product Description	Pack Size	Part Number
Grignard Reagents	4-Fluorophenylmagnesium bromide, 2M solution in diethyl ether, AcroSeal	100ML 800ML	377371000 377378000
	3-Fluorophenylmagnesium bromide, 1M Solution In THF, AcroSeal	100ML	427821000
	Hexylmagnesium bromide, 0.8M Solution In THF, AcroSeal	100ML 800ML	427761000 427768000
	Isobutylmagnesium bromide, 2M Solution In Diethyl Ether, AcroSeal	100ML 800ML	427391000 427398000
	Isobutylmagnesium chloride, 2M Solution In Diethyl Ether, AcroSeal	100ML 800ML	209521000 209528000
	Isopropenylmagnesium bromide, 0.5M Solution In THF, AcroSeal	100ML 800ML	427751000 427758000
	Isopropylmagnesium bromide, 3M solution in 2-Methyltetrahydrofuran, AcroSeal	100ML	426781000
	Isopropylmagnesium chloride - Lithium chloride complex, 1.3M solution in THF, AcroSeal	100ML 800ML	386281000 386288000
	Isopropylmagnesium chloride, 2.0M solution in THF, AcroSeal	100ML 800ML	212851000 212858000
	4-Methoxybenzylmagnesium chloride, 0.25M Solution In THF, AcroSeal	100ML	427421000
	2-Methoxyphenylmagnesium bromide, 1M solution in THF, AcroSeal	100ML 800ML	426731000 426738000
	3-Methoxyphenylmagnesium bromide, 1M solution in THF/toluene, AcroSeal	100ML 800ML	426751000 426758000
	4-Methoxyphenylmagnesium bromide, 1M solution in THF, AcroSeal	100ML 800ML	377421000 377428000
	2-Methylallylmagnesium chloride, 0.5M solution In THF, AcroSeal	100ML	427411000
	Methylmagnesium bromide, 3.2M in solution 2-methyltetrahydrofuran, AcroSeal	100ML	391121000
	Methylmagnesium bromide, 1.4M solution in toluene/THF, AcroSeal	100ML 800ML	377331000 377338000
	Methylmagnesium bromide, 3M solution in diethyl ether, AcroSeal	100ML 800ML	183541000 183548000
	Methylmagnesium bromide, 1M solution in THF, AcroSeal	100ML	377381000
	Methylmagnesium chloride, 22 wt% solution in THF, AcroSeal	100ML 800ML	252561000 252568000
	Methylmagnesium iodide, 3M Solution In Diethyl Ether, AcroSeal	100ML 800ML	427401000 427408000
	1-Naphthylmagnesium bromide, 0.25M solution in THF, AcroSeal	100ML	384121000
	N-Butyl-sec-butylmagnesium, 0.7M solution in hexane, AcroSeal	100ML	426971000
	Octylmagnesium bromide, 2M solution In Diethyl Ether, AcroSeal	100ML 800ML	427811000 427818000
	Octylmagnesium chloride, 1.4M solution in THF, AcroSeal	100ML 800ML	428031000 428038000
	Phenethylmagnesium chloride, 1M solution In THF, AcroSeal	100ML 800ML	427801000 427808000
	Phenylmagnesium bromide, 2.8M solution in diethyl ether, AcroSeal	100ML 800ML	173981000 173988000
	Phenylmagnesium bromide, 2.8M solution in 2-methyltetrahydrofuran, AcroSeal	100ML 800ML	391111000 391118000
	Phenylmagnesium bromide, 1M solution in THF, AcroSeal	100ML 800ML	377411000 377418000
	Phenylmagnesium chloride, 25 wt% solution in THF, AcroSeal	100ML 800ML	252581000 252588000
	1-Propynylmagnesium bromide, 0.5M solution in THF, AcroSeal	100ML 800ML	426071000 426078000
	sec-Butylmagnesium chloride, 25 wt% solution in THF, AcroSeal	100ML	331661000

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AcroSeal

ORGANOMETALLIC COMPOUNDS



Safety: Because the use of the products involve syringe and needles, it is important that the packaging is designed in such a way that the potential risk of needle puncture can be minimized. AcroSeal packaging requires 40% less force to puncture through the septum than the competitive brand packaging. The greater the force required to puncture through the septum, the more likely for needle puncture-related accidents to occur.

Classification	Product Description	Pack Size	Part Number	
Grignard Reagents	tert-Butylmagnesium chloride, 1,7M solution in diethyl ether, AcroSeal	100ML 800ML	394301000 394308000	
	tert-Butylmagnesium chloride, 1,7M solution in THF, AcroSeal	100ML 800ML	331671000 331678000	
	4-Thioanisolemagnesium bromide, 0,5M solution in THF, AcroSeal	100ML	399071000	
	O-Tolylmagnesium bromide, 2M solution In Diethyl Ether, AcroSeal	100ML 800ML	427471000 427478000	
	O-Tolylmagnesium chloride, 1,4M (22 Wt.%) Solution In THF/Toluene	100ML 800ML	427481000 427488000	
	p-Tolylmagnesium bromide, ca. 0,4M(10%) solution in diethyl ether, AcroSeal	100ML 800ML	426761000 426768000	
	p-Tolylmagnesium chloride, 2M (31 wt.%) solution in THF, AcroSeal	100ML 800ML	382721000 382728000	
	(Trimethylsilyl)methylmagnesium chloride, 1,3M solution in THF, AcroSeal	100ML 800ML	377461000 377468000	
	Vinylmagnesium bromide, 0,7M solution in THF, AcroSeal	100ML 800ML	209391000 209398000	
	Vinylmagnesium chloride, 15 wt% solution in THF, AcroSeal	100ML 800ML	252591000 252598000	
	Organolithium Reagents	n-Butyllithium, 2,2M solution in cyclohexane, AcroSeal	100ML 800ML	377491000 377498000
		n-Butyllithium, 1,6M solution in hexanes, AcroSeal	100ML 500ML 800ML	181271000 181275000 181278000
n-Butyllithium, 2,5M solution in hexanes, AcroSeal		100ML 800ML	213351000 213358000	
n-Butyllithium, 2,6M solution in toluene, AcroSeal		100ML 800ML	378931000 378938000	
Ethyllithium, 1,7M solution in dibutyl ether, AcroSeal		100ML 800ML	377571000 377578000	
n-Hexyllithium, 33 wt.% solution in n-hexane, AcroSeal		100ML 800ML	301651000 301658000	
Isobutyllithium, 1,6M solution in heptane, AcroSeal		100ML 800ML	377591000 377598000	
Lithium (trimethylsilyl)acetylide, 0,5M solution in THF, AcroSeal		100ML 800ML	380651000 380658000	
Methylithium, 1,6 M sol. in diethyl ether (\pm 5% w/v), AcroSeal		100ML 800ML	188751000 188758000	
Methylithium lithium bromide complex, 2,2M solution in diethylether, AcroSeal		100ML 800ML	181291000 181298000	
Phenyllithium, 2,0M (20%) solution in dibutylether, AcroSeal		100ML 500ML 800ML	365151000 365155000 365158000	
sec-Butyllithium, 1,3M solution in cyclohexane/hexane (92/8), AcroSeal		100ML 800ML	187541000 187548000	
tert-Butyllithium, 1,6M solution in pentane, AcroSeal		100ML 800ML	181281000 181288000	
tert-Butyllithium, 1,9M solution in pentane, AcroSeal		100ML 800ML	396541000 396548000	
(Trimethylsilyl)Methylithium, 0,8M (12 Wt%) solution In Hexanes, AcroSeal		100ML 800ML	377451000 377458000	

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Performance: Moisture uptake studies have shown that overall the AcroSeal packaging with its particular closure design appears to allow a slower rate of moisture uptake than the familiar competing brand's closure design.



Classification	Product Description	Pack Size	Part Number	
Organoaluminum Reagents	Diethylaluminium chloride, 0.9M solution in toluene, AcroSeal	100ML 800ML	381151000 381158000	
	Diethylaluminium chloride, 1M solution in hexanes, AcroSeal	100ML 800ML	199521000 199528000	
	Diethylaluminium iodide, 1.1M solution in toluene, AcroSeal	100ML 800ML	185471000 185478000	
	Diethylaluminium iodide, 0.9M solution in toluene, AcroSeal	100ML 800ML	381161000 381168000	
	Diisobutylaluminium chloride, 0.8M solution in heptane, AcroSeal	100ML 800ML	377561000 377568000	
	Dimethylaluminium chloride, 0.9M solution in heptane, AcroSeal	100ML 800ML	377791000 377798000	
	Ethylaluminium dichloride, 0.9M solution in heptane, AcroSeal	100ML 800ML	185451000 185458000	
	Ethylaluminum dichloride solution 25 wt. % (1.8M) in toluene, AcroSeal	100ML 800ML	428041000 428048000	
	Ethylaluminium sesquichloride, 0.4M solution in hexane, AcroSeal	100ML 800ML	185461000 185468000	
	Methylaluminoxane solution 10 wt. % (1.5M) in toluene, AcroSeal	100ML 800ML	427871000 427878000	
	Tri-n-butylaluminium, 0.7M solution in heptane, AcroSeal	100ML 800ML	377801000 377808000	
	Triethylaluminium, 1.3M solution in heptane, AcroSeal	100ML 800ML	377291000 377298000	
	Triethylaluminium, 0.6M solution in heptane, AcroSeal	100ML 800ML	381171000 381178000	
	Triisobutylaluminium, 1.1M solution in toluene, AcroSeal	100ML 800ML	185421000 185428000	
	Trimethylaluminium, 1.0M solution in heptane, AcroSeal	100ML 800ML	189271000 189278000	
	Tri-n-propylaluminium, 0.7M solution in heptane, AcroSeal	100ML 800ML	377811000 377818000	
	Organozinc	Diethylzinc, 1M solution in hexane, AcroSeal	100ML 800ML	205511001 205518000
		Diethylzinc, 1.5M solution in toluene, AcroSeal	100ML 800ML	377311000 377318000
Dimethylzinc, 1.2M solution in toluene, AcroSeal		100ML 800ML	377241000 377248000	
Organotin		Trimethyltin Chloride, 1M (20 Wt.%) solution In THF, AcroSeal	100ML 100ML	427851000 427861000
	Organoboron	Triisopropyl borate, AcroSeal, 98+%	100ML 800ML	427141000 427148000
Organotitanium		Bis(cyclopentadienyl)dimethyltitanium, 5wt% in toluene, AcroSeal	100ML	301761000
Tebbe Reagent	Tebbe reagent, 0.5M solution in toluene, AcroSeal	100ML	426061000	

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AcroSeal REAGENT IN SOLUTION



3) AcroSeal Reagent In Solution: We offer most commonly used reactive reagents and corrosive gaseous reagents in the ready to use solutions in AcroSeal packaging. Key products include boranes, hydrides, organic bases and Lewis acids. AcroSeal Packaging reduces the hazard of handling and improves the safety of using the products.

Classification	Product Description	Pack Size	Part Number
Boranes	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF, AcroSeal	100ML	165811000
		800ML	165818000
	Borane-methyl sulfide complex, 1M solution in methylene chloride, AcroSeal	100ML	185611000
		Borane-methyl sulfide complex, 2M solution in THF, AcroSeal	100ML
	800ML		185078000
	Borane-methyl sulfide complex, AcroSeal, 94%	100ML	177061000
		800ML	177068000
	Borane-pyridine complex, (ca. 9.4M), AcroSeal, 95%	100ML	427131000
	Borane-tetrahydrofuran complex, 1M solution in THF, Stabilized, AcroSeal	100ML	175081000
		800ML	175088000
	Catecholborane, 1M solution in THF, AcroSeal	100ML	209541000
		800ML	209548000
	(+)-Diisopinocampheylchloroborane, 1.8M solution in hexanes, AcroSeal	100ML	388421000
		800ML	388428000
Diethylmethoxyborane, 4M solution in THF, AcroSeal	100ML	398381000	
	800ML	398388000	
Tributylborane, 1M solution in THF, AcroSeal	100ML	177101000	
	800ML	177108000	
Triethylborane, 1M solution in THF, AcroSeal	100ML	176981000	
	800ML	176988000	
Hydrides	Diisobutylaluminium hydride, 1.0M solution in heptanes, AcroSeal	100ML	201051000
		800ML	201058000
	Diisobutylaluminium hydride, 1.1M solution in cyclohexane, AcroSeal	100ML	201031000
		800ML	201038000
	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal	100ML	183791000
		400ML	183794000
		800ML	183798000
	Diisobutylaluminium hydride, 20 wt% solution in toluene, 1.2M, AcroSeal	100ML	201081000
		400ML	201084000
		800ML	201088000
	Lithium aluminium hydride, 1.0M solution in THF, AcroSeal	100ML	199491000
		800ML	199498000
	Lithium aluminium hydride, 15% (3.5M) solution in toluene/THF, AcroSeal	100ML	385571000
		800ML	385578000
	Lithium aluminium hydride, 2.4M solution in THF, AcroSeal	100ML	377321000
		800ML	377328000
Lithium aluminium hydride, 4.0M solution in diethyl ether, AcroSeal	100ML	199511000	
	800ML	199518000	
Lithium borohydride, 2M solution in THF, AcroSeal	100ML	212931000	
	800ML	212938000	
Lithium triethylborohydride, 1M solution in THF, AcroSeal	100ML	176991000	
	800ML	176998000	
Lithium tri-sec-butylborohydride, 1M solution in THF, AcroSeal	100ML	176451000	
	800ML	176458000	
Lithium trisiamylborohydride, 1M solution in THF, AcroSeal	100ML	209681000	
Lithium tri-tert-butoxyaluminumhydride, 1.1M solution in THF, AcroSeal	100ML	377581000	
	800ML	377588000	

*Not all the products are available in all the regions. Contact your local sales representative for details.
Add "AC" in front of the part number for North America region.*

Classification	Product Description	Pack Size	Part Number
Hydrides	Potassium tri-sec-butylborohydride, 1M solution in THF, AcroSeal	100ML	205471000
		800ML	205478000
	Potassium triisopropoxyborohydride, 1M solution in THF, AcroSeal	100ML	189181000
		800ML	189188000
	Sodium borohydride, 0.5M solution in diglyme, AcroSeal	100ML	191131000
	Sodium cyanoborohydride, 1M Solution in THF, AcroSeal	100ML	372451000
		800ML	372458000
	Sodium triethylborohydride, 1M solution in THF, AcroSeal	100ML	200031000
		800ML	200038000
	Potassium triethylborohydride, 1M solution in THF, AcroSeal	100ML	200041000
		800ML	200048000
	Organic Bases	Ammonia, 0.5M solution in 1,4-dioxane, AcroSeal	100ML
		1L	368380010
Ammonia, 2M solution in methanol, AcroSeal		100ML	368391000
		800ML	368398000
Ammonia, ca. 7N solution in methanol, AcroSeal		100ML	428381000
		800ML	428388000
Ethylamine, 2.0M solution in THF, AcroSeal		100ML	370251000
		800ML	370258000
Dimethylamine, 2M solution in methyl alcohol, AcroSeal		100ML	370261000
		800ML	370268000
Dimethylamine, 2M solution in THF, AcroSeal		100ML	388381000
		800ML	388388000
Lithium bis(trimethylsilyl)amide, 0.9M solution in methylcyclohexane, AcroSeal		100ML	380231000
		800ML	380238000
Lithium bis(trimethylsilyl)amide, 1.0M solution in methyl tert-butyl ether, AcroSeal		100ML	345671000
		800ML	345678000
Lithium bis(trimethylsilyl)amide, 1M solution in THF/Ethylbenzene, AcroSeal		100ML	347701000
		800ML	347708000
Lithium diisopropylamide, 2M sol. in THF/n-heptane/ethylbenzene, AcroSeal		100ML	268831000
		800ML	268838000
Lithium ethoxide, 1M solution in ethanol, AcroSeal		100ML	380171000
		800ML	380178000
Lithium ethoxide, 1M solution in THF, AcroSeal		100ML	380181000
		800ML	380188000
Lithium isopropoxide, 1M solution in hexanes, AcroSeal		100ML	380201000
Lithium isopropoxide, 3M solution in THF, AcroSeal		100ML	396501000
		800ML	396508000
Lithium methoxide, 10% solution in methanol, AcroSeal, pure		100ML	336751000
		800ML	336758000
Lithium tert-butoxide, 1M solution in hexanes, AcroSeal		100ML	380151000
	800ML	380158000	
Lithium tert-butoxide, 2.2M solution in THF, AcroSeal	100ML	379311000	
	800ML	379318000	
Magnesium bis(diisopropylamide), 0.7M solution in THF, AcroSeal	100ML	389461000	
	800ML	389468000	
Methylamine, 2M solution in methanol, AcroSeal, pure	100ML	368551000	
	800ML	368558000	
Methylamine, 2M solution in THF, AcroSeal, pure	100ML	368491000	
	800ML	368498000	
Methylamine, 33 wt.% solution in absolute ethanol, AcroSeal	100ML	396731000	
	800ML	396738000	

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AcroSeal REAGENT IN SOLUTION



Convenience: AcroSeal packaging is designed to provide a larger surface area available for syringe punctures, providing more than 15 times the surface area than the septum of the competing brand. The larger surface area makes it possible to avoid repeated puncture in the same spot over time, therefore reducing the risk of deformation and providing better resealing.

The AcroSeal packaging screw closure allows not only syringe withdrawal of a reagent through the septum but also permits ready access to a larger volume of the solvent with the option to reseal the closure by hand. By contrast, the competing brand has a crimp cap design, meaning that the reagent within is only accessible with a syringe unless a special tool is used. Once de-crimped, the cap cannot be replaced.

Classification	Product Description	Pack Size	Part Number
Organic Bases	Potassium bis(trimethylsilyl)amide, 0.5M solution in toluene, AcroSeal	100ML	418231000
		800ML	418238000
	Potassium tert-butoxide, 1M solution in tert-butanol, AcroSeal	100ML	426121000
		800ML	426128000
	Potassium tert-butoxide, 1M solution in THF, AcroSeal, pure	100ML	371221000
		1L	371220010
	Sodium bis(trimethylsilyl)amide, 2M solution in THF, AcroSeal, pure	100ML	277851000
		800ML	277858000
	Sodium methoxide, 0.5M solution in methanol, AcroSeal	100ML	427221000
		800ML	427228000
Sodium methoxide, 5.4M (30 wt%) in methanol, AcroSeal	100ML	428361000	
	800ML	428368000	
Sodium tert-pentoxide, 2.5M (30 wt%) solution in THF, AcroSeal	100ML	390151000	
	800ML	390158000	
Trimethylamine, 1M solution in THF, AcroSeal	100ML	388371000	
	800ML	388378000	
Zirconium(IV) propoxide, solution in propanol, AcroSeal, ca. 70%	100ML	427931000	
	800ML	427938000	

Classification	Product Description	Pack Size	Part Number
Lewis Acids	Boron tribromide, 1M solution in heptane, AcroSeal	100ML	378191000
		800ML	378198000
	Boron tribromide, 1M solution in methylene chloride, AcroSeal	100ML	427101000
		800ML	427108000
	Boron tribromide dimethyl sulfide complex solution 1.0M in methylene chloride, AcroSeal	100ML	428321000
		800ML	428328000
	Boron trichloride solution 10 wt. % in 2-chloroethanol, AcroSeal	100ML	428331000
	Boron trichloride, 1M solution in hexane, AcroSeal	100ML	198921000
	Boron trifluoride dibutyl etherate, AcroSeal	100ML	428141000
	Boron trichloride, stab., 1M sol. in methylene chloride, AcroSeal	100ML	176681000
		800ML	176688000
	Boron trifluoride etherate, ca. 48% BF ₃ , AcroSeal	100ML	427111000
		800ML	427118000
	Boron trifluoride-propanol, 14% BF ₃ w/v in propanol, AcroSeal	100ML	427121000
	Methyltitanium triisopropoxide, 1M solution in THF, AcroSeal	100ML	428371000
	Tin(IV) chloride, 1M solution in dichloromethane, AcroSeal	100ML	378201000
		800ML	378208000
	Tin(IV) chloride solution 1.0M in heptane, AcroSeal	100ML	428341000
	Titanium(IV) chloride, 1M solution in dichloromethane, AcroSeal	100ML	377741000
		800ML	377748000
Titanium(IV) chloride solution 0.09M in 20% HCl, AcroSeal	100ML	428351000	
Titanium(IV) chloride, 1M solution in toluene, AcroSeal	100ML	378161000	
	800ML	378168000	
Zinc chloride, 0.7M solution in THF, AcroSeal	100ML	389451000	
	800ML	389458000	
Zinc chloride, 1.0M solution in diethyl ether, AcroSeal	100ML	370051000	
	800ML	370058000	

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Integrity: AcroSeal closure system features a quadrant-style cap design that holds the septum in place, reducing the risk of bulging or deformation mechanically or through use over time. AcroSeal packaging has a tamper evident seal to assure that the bottle is visibly unopened and the quality has not been compromised.



Classification	Product Description	Pack Size	Part Number
Others	Acetyl chloride, 1M solution in dichloromethane, AcroSeal	100ML 800ML	387741000 387748000
	Bromine, 1M solution in acetic acid, AcroSeal	100ML 800ML	388401000 388408000
	Bromine, 1M solution in dichloromethane, AcroSeal	100ML 800ML	389661000 389668000
	Bromine-1,4-dioxane complex, 0.25M solution in 1,4-dioxane, AcroSeal	100ML 800ML	388411000 388418000
	Chlorotrimethylsilane, 1M solution in dichloromethane, AcroSeal	100ML 800ML	381601000 381608000
	Chlorotrimethylsilane, 1M solution in THF, AcroSeal	100ML 800ML	381611000 381618000
	Di-tert-butyl dicarbonate, 1M solution in THF, AcroSeal	100ML 800ML	426801000 426808000
	Hydrogen chloride, 1N solution in diethyl ether, AcroSeal, pure	100ML 800ML	368461000 368468000
	Hydrogen chloride, 2N solution in diethyl ether, AcroSeal, pure	100ML 800ML	368471000 368478000
	Hydrogen chloride, 4N solution in 1,4-dioxane, AcroSeal	100ML 800ML	388361000 388368000
	Hydrogen chloride, 1.25M solution in ethanol, AcroSeal	100ML 800ML	427011000 427018000
	Iodomethane, 2M solution in tert-butyl methyl ether, AcroSeal	100ML 800ML	378411000 378418000
	Isopropyl chloroformate, 1.0M solution in toluene, AcroSeal	100ML 800ML	427621000 427628000
	Lithium bromide, 4M solution in THF, AcroSeal	100ML 800ML	390971000 390978000
	2-Methyl-2-butene, 2M solution in THF, AcroSeal	100ML	426391000
	Oxalyl chloride, 2.0M solution in dichloromethane, AcroSeal	100ML 800ML	369181000 369188000
	Phosphorus tribromide, 1.0M solution in dichloromethane, AcroSeal	100ML 800ML	382061000 382068000
	Phosphorus trichloride, 2M solution in dichloromethane, AcroSeal	100ML 800ML	382101000 382108000
	Sulfuryl chloride, 1.0M solution in dichloromethane, AcroSeal	100ML 800ML	378151000 378158000
	Samarium(II) iodide, 0.1M solution in THF, stabilized with Samarium powder, AcroSeal	100ML 800ML	294991000 294998000
	tert-Butylchlorodimethylsilane, 1.0M solution in dichloromethane, AcroSeal	100ML	369101000
	Thionyl chloride, 1M solution in dichloromethane, AcroSeal	100ML 800ML	387721000 387728000
	Tricyclohexylphosphine, 1M solution in THF, AcroSeal	100ML	427831000

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AcroSeal DEUTERATED SOLVENTS



4) AcroSeal Deuterated Solvents: We recently introduced some of the most commonly used deuterated solvents in AcroSeal packaging. It is a low cost alternative to ampule packaging. AcroSeal packaging reduces the moisture uptake of the solvent compared to the regular packaging. It also reduces the safety risk of handling ampule.

Product Description	Pack Size	Part Number
Acetone-d6, 99.8 atom % D, AcroSeal, for NMR	100ML	217371000
Acetonitrile-d3, 99.8 atom% D, AcroSeal, for NMR	100ML	217421000
Chloroform-d, 99.8 atom % D, AcroSeal, for NMR	100ML	426771000
Chloroform-d, contains 0.03 v/v% TMS, 99.8+ atom % D, AcroSeal, for NMR	100ML	426961000
Deuterium chloride, 1M solution in D2O, 99.8 atom% D, AcroSeal, for NMR	100ML	210601000
Deuterium oxide, 100 atom % D, AcroSeal, for NMR	100ML	184761000
Deuterium oxide, 99.8 atom % D, AcroSeal, for NMR	100ML	426931000
Methanol-d4, 99.8 atom% D, AcroSeal, for NMR	100ML	426951000
Methanol-d4, contains 0.03 v/v% TMS, 99.8% atom% D, AcroSeal, for NMR	100ML	325351000
Methyl sulfoxide-d6, 99.9 atom% D, AcroSeal, for NMR	100ML	426941000
Tetramethylsilane, AcroSeal, 99%	100ML	427331000



5) AcroSeal Organics: Organic products packed in AcroSeal packaging include:

- Products which are prone to oxidation (e.g., aliphatic amines, aldehydes and phosphines)
- Products which are prone to hydrolysis (e.g., ortho esters, acid chlorides and silyl halides)
- Organic products have strong odors or high toxicity

Classification	Product Description	Pack Size	Part Number
Aldehydes	Acetaldehyde, AcroSeal, 99.5%	100ML	427171000
	Benzaldehyde, redistilled, AcroSeal, pure, 99.5+%	100ML	378361000
		1L	378360010
	Crotonaldehyde, AcroSeal, 99+%	100ML	427181000
		800ML	427188000
	4-Fluorobenzaldehyde, AcroSeal, 98+%	100ML	427191000
Pivaldehyde, AcroSeal, 97%	100ML	427201000	
	Propionaldehyde, AcroSeal, 99+%	100ML	427211000
Amines	Benzylamine, AcroSeal, 99.5+%	100ML	427231000
		800ML	427238000
	Ethanolamine, AcroSeal, 99%	100ML	427251000
		800ML	427258000
	Ethylendiamine, AcroSeal, 99+%	100ML	427261000
800ML		427268000	
tert-Butylamine, AcroSeal, 99%	100ML	427241000	
	800ML	427248000	
Phosphines	Chlorodiisopropylphosphine, AcroSeal, 96%	50ML	427270500
	2-Chloro-5,5-dimethyl-1,3,2-dioxaphosphorinane, AcroSeal	50ML	427840500
	Diphenylphosphine, AcroSeal, 95%	50ML	427290500
	Tri-n-butylphosphine, AcroSeal, 95%	100ML	427301000
		800ML	427308000
Di-tert-butylchlorophosphine, AcroSeal, 96%	50ML	427280500	
Silicon compounds	Chlorotrimethylsilane, AcroSeal, 98%	100ML	426431000
	Iodotrimethylsilane, stabilized, AcroSeal, 95-97%	100ML	426421000
Others	2-Methyl-2-butene, 2M solution in THF, AcroSeal	100ML	426391000
	Thiophosgene, AcroSeal, 97%	100ML	426441000

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Performance: Moisture uptake studies have shown that overall the AcroSeal packaging with its particular closure design appears to allow a slower rate of moisture uptake than the familiar competing brand's closure design.



Tamper-evident break ring at the lower end of the protective red cap.

Foolproof guarantee that the customer is the first to open the bottle. The lower ring breaks off with the first opening of the red cap.

Triple sandwich septum with inner silicone layer and double outer PTFE resin coating or heavy-duty rubber septum with one side Teflon coated.

Better chemical compatibility and re-closure of any puncture hole.

Quadrant cap surface.

The quadrant cap promotes the durability of the septum because punctures can be spread over the large septum surface.



Cushioning liner in outer protective cap.

Re-seals perfectly even after the septum has been punctured multiple times.

Rim design at the inner surface of the septum holding quadrant cap will hold and stretch the septum.

Reduces the risk of bulging or deformation of the septum.

Three-plus windings in the septum holding cap for extra security.

Large contact surface prevents infiltration of air and moisture through the screw neck.

Special rim design inside the septum holding cap fits snugly over the glass rim of the bottle neck.

No risk of accidentally unscrewing the septum holding quadrant cap.

Acros Organics, a leading brand of organic and fine chemicals, is highly focused on the evolving trends in organic chemistry. The Acros Organics brand supports research, development, and product activities through a broad range of off-the-shelf products and expertise in sourcing, manufacturing, and technology partnerships.

The product lines consist of 4 key categories:

- Building Blocks – an extensive range to construct more complex molecules
- Preparation, Purification and Analysis – more than 1000 basic reagents
- Functional Reagents – “tools” to transform starting materials into products
- Biochemicals and Reagents – common reagents frequently used in biology and biochemistries

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