

Your Solution for Air- and Moisture-Sensitive Reactions



Solvents and Reagents Drier For Longer

AcroSeal Packaging Provides...



Performance

The specially designed multi-layer septum ensures a better re-seal thus minimizing atmospheric exposure and protecting the quality of your air and moisture sensitive solvents and reagents.



Convenience

A wide range of pre-prepared reagents in solution are available, reducing the risks and saving the time and effort of making your own.



Safety

Our AcroSeal cap system ensures you can transfer the contents of the bottle safely into your reaction vessel minimizing your exposure to potentially hazardous chemicals.

Key Features of AcroSeal Packaging

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.

Extra thick durable rubber septum with inner PTFE resin coating.

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.

Solvents

Solvents

Our range includes extra dry solvents for moisture-sensitive applications, solvents for biochemistry. 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%	364311000 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

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
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

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	

Top Tips for Using AcroSeal Packaging

To get the best results using 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

Advanced tips:

1. Prepare the nitrogen balloon in advance and use two balloons, one inside the other
2. Purge the doubled balloons with nitrogen three times before use
3. Bend the needle as it makes it easier to use and control
4. Flush each needle and syringe with nitrogen three times before use
5. Use the reaction flask to flush the syringe and needle prior to use



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.

For further tips on how to use AcroSeal packaged products, view our demonstration video at www.thermofisher.in/chemicals

In conclusion, AcroSeal packaging offers a superior advantage for your organic synthesis by providing quality products, saving you time and keeping you safer!



To view the full list of AcroSeal packaged products visit www.thermofisher.in/chemicals



Find out more at www.thermofisher.in/chemicals

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