

thermo scientific



Chemicals

# A constant flow of innovation for pyrophoric products

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# AcroSeal Packaging

Highly reactive reagents often required in organic synthesis may be hazardous to use, including compounds that can be pyrophoric, toxic, carcinogenic, mutagenic, corrosive and odourous e.g. thiols. Our innovative AcroSeal packaging provides a safer solution for handling these reagents by allowing removal of the reagent from the bottle under an inert atmosphere and without exposing the contents to the environment.



## Focus on Pyrophoric reagents

From the Greek pyrophoros meaning 'fire-bearing' pyrophoric compounds have the ability to ignite spontaneously in the air and often on contact with water and thus pose a significant risk of fire. Whilst being extremely useful for synthetic chemistry, pyrophoric reagents can be amongst the most hazardous compounds used in the chemistry laboratory.

One of the challenges facing an organic chemist is to minimise the hazards of handling such products whilst taking advantage of their reactive properties. Creating fresh reagent solutions in the lab can require complex, potentially hazardous and time consuming steps such as distillations and the use of gas cylinders.

Our extended range of AcroSeal packaged reagents can decrease risk in the laboratory through reducing the preparation required and facilitating safe transfer of the reagent from the storage to reaction vessel.

Our range of pyrophoric reagents offered in AcroSeal packaging has recently been extended. These feature our most chemically stable septum for better performance against these highly reactive chemicals.

## Thermo Scientific products

Fisher Scientific Cat. No.	Product Description	CAS#	Size
AAH36141-AE	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal™ bottles	1191-15-7	100 mL
AAH36141-AN	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal™ bottles	1191-15-7	400 mL
AAH36141-9Z	Diisobutylaluminum hydride, 1.2M solution in toluene, packaged under Nitrogen in resealable AcroSeal™ bottles	1191-15-7	800 mL
AAH37108-AE	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable AcroSeal™ bottles	1191-15-7	100 mL
AAH37108-9Z	Diisobutylaluminum hydride, 1.1M in cyclohexane, packaged under Nitrogen in resealable AcroSeal™ bottles	1191-15-7	800 mL

## Highly reactive reagents often required in organic synthesis

Fisher Scientific Cat. No.	Product Description	CAS#	Size
AC209538000	Allylmagnesium bromide, 1M solution in diethyl ether, AcroSeal™	1730-25-2	800 mL
AC209531000	Allylmagnesium bromide, 1M solution in diethyl ether, AcroSeal™	1730-25-2	100 mL
AC165811000	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF, AcroSeal™	280-64-8	100 mL
AC165818000	9-Borabicyclo[3.3.1]nonane, 0.5M solution in THF, AcroSeal™	280-64-8	800 mL
AC377491000	n-Butyllithium, 2.3M (20 wt.%) sol. in Cyclohex./Hexane AcroSeal™	109-72-8	100 mL

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Fisher Scientific Cat. No.	Product Description	CAS#	Size
AC377498000	n-Butyllithium, 2.3M (20 wt.%) sol. in Cyclohex./Hexane AcroSeal™	109-72-8	800 mL
AC213358000	n-Butyllithium, 2.5M solution in hexanes, AcroSeal™	109-72-8	800 mL
AC213350500	n-Butyllithium, 2.5M solution in hexanes, AcroSeal™	109-72-8	50 mL
AC213351000	n-Butyllithium, 2.5M solution in hexanes, AcroSeal™	109-72-8	100 mL
AC181278000	n-Butyllithium, 1.6M solution in hexanes, AcroSeal™	109-72-8	800 mL
AC181271000	n-Butyllithium, 1.6M solution in hexanes, AcroSeal™	109-72-8	100 mL
AC181275000	n-Butyllithium, 1.6M solution in hexanes, AcroSeal™	109-72-8	500 mL
AC378931000	n-Butyllithium, 2.7M solution in toluene, AcroSeal™	109-72-8	100 mL
AC378938000	n-Butyllithium, 2.7M solution in toluene, AcroSeal™	109-72-8	800 mL
AC187541000	sec-Butyllithium, 1.3M sol. in cyclohexane/hexane (92/8), AcroSeal™	598-30-1	100 mL
AC187548000	sec-Butyllithium, 1.3M sol. in cyclohexane/hexane (92/8), AcroSeal™	598-30-1	800 mL
AC396541000	tert-Butyllithium, 1.9M solution in pentane, AcroSeal™	594-19-4	100 mL
AC396548000	tert-Butyllithium, 1.9M solution in pentane, AcroSeal™	594-19-4	800 mL
AC398388000	Diethylmethoxyborane, 4M solution in THF, AcroSeal™	7397-46-8	800 mL
AC398381000	Diethylmethoxyborane, 4M solution in THF, AcroSeal™	7397-46-8	100 mL
AC205511001	Diethylzinc, 0.9M (15 wt%) solution in hexane, AcroSeal™	557-20-0	100 mL
AC205518000	Diethylzinc, 0.9M (15 wt%) solution in hexane, AcroSeal™	557-20-0	800 mL
AC183794000	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal™	1191-15-7	400 mL
AC183798000	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal™	1191-15-7	800 mL
AC183791000	Diisobutylaluminium hydride, 1M solution in hexane, AcroSeal™	1191-15-7	100 mL
AC427290500	Diphenylphosphine, 95%, AcroSeal™	829-85-6	50 mL
AC301658000	n-Hexyllithium, 2.5M (33 wt.%) solution in hexane, AcroSeal™	21369-64-2	800 mL
AC301651000	n-Hexyllithium, 2.5M (33 wt.%) solution in hexane, AcroSeal™	21369-64-2	100 mL
AC377598000	Isobutyllithium, 1.7M solution in heptane, AcroSeal™	920-36-5	800 mL
AC377591000	Isobutyllithium, 1.7M solution in heptane, AcroSeal™	920-36-5	100 mL
AC450691000	Lithium triethylborohydride, 1.7M solution in THF, AcroSeal™	22560-16-3	100 mL
AC450698000	Lithium triethylborohydride, 1.7M solution in THF, AcroSeal™	22560-16-3	800 mL
AC181298000	Methylithium, 2.2M (6wt%) in diethyl ether with LiBr, AcroSeal™	917-54-4	800 mL
AC181291000	Methylithium, 2.2M (6wt%) in diethyl ether with LiBr, AcroSeal™	917-54-4	100 mL
AC188758000	Methylithium, 1.6 M sol. in diethyl ether (± 5% w/v), AcroSeal™	917-54-4	800 mL
AC188751000	Methylithium, 1.6 M sol. in diethyl ether (± 5% w/v), AcroSeal™	917-54-4	100 mL
AC445848000	Methylithium, 3% solution in 2-MeTHF/cumene, AcroSeal™	917-54-4	800 mL
AC445841000	Methylithium, 3% solution in 2-MeTHF/cumene, AcroSeal™	917-54-4	100 mL
AC177101000	Tributylborane, 1M solution in THF, AcroSeal™	122-56-5	100 mL
AC177108000	Tributylborane, 1M solution in THF, AcroSeal™	122-56-5	800 mL
AC427308000	Tri-n-butylphosphine, 95%, AcroSeal™	998-40-3	800 mL
AC427301000	Tri-n-butylphosphine, 95%, AcroSeal™	998-40-3	100 mL
AC377298000	Triethylaluminium, 1.3M solution in heptane, AcroSeal™	97-93-8	800 mL
AC377291000	Triethylaluminium, 1.3M solution in heptane, AcroSeal™	97-93-8	100 mL
AC381178000	Triethylaluminium, 0.6M solution in heptane, AcroSeal™	97-93-8	800 mL
AC381171000	Triethylaluminium, 0.6M solution in heptane, AcroSeal™	97-93-8	100 mL

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The combined benefits of consistent product quality, convenience and safer handling make AcroSeal packaged pyrophoric reagents the solution of choice for many organic chemists.

Please visit [thermofisher.com/acroseal](http://thermofisher.com/acroseal) for detailed usage instructions and information on the complete portfolio of over 600 products available in our innovative

AcroSeal packaging including:

- **Extra dry solvents**
- **Deuterated solvents**
- **Organics**
- **Organometallics**
- **Reagents in solution**

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