

# DriSolv<sup>®</sup>

## Anhydrous solvents for organic synthesis



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EMD Millipore is a recognized leader in the production of high purity solvents. We use that experience to produce the highest quality anhydrous solvents. With a water content as low as 30 ppm for some solvents, our DriSolv® solvents provide a reliable basis for water critical synthesis and research work.

All DriSolv® solvents are packed under nitrogen and sealed with our Pureseal® septa, which ensures that the solvent will stay dry during use. These unique septa have been designed to reseal after every use and are chemically inert. The large surface area enables access for more than one cannula and multiple reclosing options, making it easy to deliver the driest solvents to any type of reaction vessel.

In addition to the standard 100 ml and 1L bottles for laboratory use, our DriSolv® solvents are available in stainless steel EMD ReCycler™ containers in sizes from 18.9L to 1,250L.

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### Not Your Ordinary Bottle Cap!

Our unique tiered cap and Pureseal™ septum keep the DriSolv® solvent inside dry from the first puncture to the last. All the elements are made from chemically inert materials, and septum material is resistant to tearing and coring. This eliminates worry about plugged syringes and minimizes air entering during puncture. There is also a large septum surface area which allows access for two cannulas.

## DriSolv® products

### Acetonitrile, DriSolv®

#### Methyl cyanide



#### Specifications:

Appearance.....	clear, free from particulates
Assay (GC), %.....	≥ 99.8
Color (APHA).....	≤ 10
Evaporation residue, ppm.....	≤ 1
Water, ppm.....	< 50

VWR Cat. No.	Size
EM-AX0143-6	1L
	6 x 1L
EM-AX0143-7	100 ml
	6 x 100 ml

### Alcohol, Reagent, DriSolv®



#### Specifications:

Appearance.....	clear, free from particulates
Assay (GC), %.....	Ethanol 89.5 - 91.5%
	Methanol 3.5 - 5.5%
	Isopropanol 4.0 - 6.0%
Color (APHA).....	≤ 10
Residue after evaporation, ppm.....	≤ 5
Water, ppm.....	≤ 50

VWR Cat. No.	Size
EM-AX0447-6	1L
	6 x 1L
EM-AX0447-7	100 ml
	6 x 1L

### Benzene, DriSolv®



#### Specifications:

Appearance.....	clear, free from particulates
Assay (GC), %.....	≥ 99.8
Color (APHA).....	≤ 10
Evaporation residue, ppm.....	≤ 5
Water, ppm.....	≤ 30

VWR Cat. No.	Size
EM-BX0214-6	1L
	6 x 1L
EM-BX0214-7	100 ml
	6 x 100 ml

### Chloroform, DriSolv®

#### Trichloromethane

$CHCl_3$  Stabilized with ~ 1% ethanol

#### Specifications:

Appearance.....	clear, free from particulates
Assay ( $CHCl_3 + C_2H_5OH$ , GC), %.....	≥ 99.8
Color (APHA).....	≤ 10
Evaporation residue, ppm.....	≤ 1
Water, ppm.....	≤ 50

VWR Cat. No.	Size
EM-CX1056-6	1L
	6 x 1L
EM-CX1056-7	100 ml
	6 x 100 ml

### Chloroform, DriSolv®

#### Trichloromethane

$CHCl_3$  Stabilized with ~ 200ppm alkene

#### Specifications:

Appearance.....	clear, free from particulates
Assay (GC), %.....	≥ -99
Color (APHA).....	≤ 10
Evaporation residue, ppm.....	≤ 3
Water, ppm.....	≤ 50

VWR Cat. No.	Size
EM-CX1057-6	1L
	6 x 1L
EM-CX1057-7	100 ml
	6 x 1L

### Cyclohexane, DriSolv®



#### Specifications:

Appearance.....	clear, free from particulates
Assay (GC), %.....	≥ 99.5
Color (APHA).....	≤ 10
Evaporation residue, ppm.....	≤ 5
Water, ppm.....	≤ 50

VWR Cat. No.	Size
EM-CX2284-6	1L
	6 x 1L

### 1,2-Dichloroethane, DriSolv®

#### Ethylene dichloride



#### Specifications:

Appearance.....	clear, free from particulates
Assay (GC), %.....	≥ 99.8
Color (APHA).....	≤ 10
Evaporation residue, ppm.....	≤ 3
Water, ppm.....	≤ 50

VWR Cat. No.	Size
EM-DX0794-6	1L
	6 x 1L
EM-DX0794-7	100 ml
	6 x 100 ml

### Dichloromethane, DriSolv®

*Methylene chloride*

CH<sub>2</sub>Cl<sub>2</sub> Stabilized with an alkene

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥99.8  
Color (APHA)..... ≤ 10  
Evaporation residue, ppm..... ≤ 1  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-DX0834-6	1L 6 x 1L
EM-DX0834-7	100 ml 6 x 100 ml

### N,N-Dimethylacetamide, DriSolv®

*Acetic acid dimethylamide*

CH<sub>3</sub>CON(CH<sub>3</sub>)<sub>2</sub>

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥99.8  
Color (APHA)..... ≤ 10  
Evaporation residue, ppm..... ≤ 10  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-DX1544-6	1L 6 x 1L

### N,N-Dimethylformamide, DriSolv®

*Formic acid dimethylamide*

HCON(CH<sub>3</sub>)<sub>2</sub>

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥99.8  
Color (APHA)..... ≤ 10  
Evaporation residue, ppm..... ≤ 5  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-DX1727-6	1L 6 x 1L
EM-DX1727-7	100 ml 6 x 100 ml

### p-Dioxane, DriSolv®

C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> Unstabilized

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥ 99.9  
Color (APHA)..... ≤ 10  
Peroxide, ppm..... ≤ 2 (at time of filling)  
Evaporation residue, ppm..... ≤5  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-DX2092-6	1L 6 x 1L
EM-DX2092-7	100 ml 6 x 1L

### Ethyl Acetate, DriSolv®

CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥ 99.9  
Color (APHA)..... ≤ 10  
Evaporation residue, ppm..... ≤1  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-EX0237-6	1L 6 x 1L
EM-EX0237-7	100 ml 6 x 100ml

### Ethyl Ether, DriSolv®

(CH<sub>3</sub>CH<sub>2</sub>)<sub>2</sub>O Stabilized with ~ 1ppm BHT

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥99.8  
Color (APHA)..... ≤ 10  
Peroxide, ppm..... ≤ 1  
Evaporation residue, ppm..... ≤ 3  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-EX0194-6	1L 6 x 1L
EM-EX0194-7	100 ml 6 x 100 ml

### n-Hexane, DriSolv®

C<sub>6</sub>H<sub>14</sub>

#### Specifications:

Appearance..... clear, free from particulates  
Assay (n-Hexane) (GC), %..... ≥95  
Color (APHA)..... ≤ 10  
Evaporation residue, ppm..... ≤ 3  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-HX0304-6	1L 6 x 1L

### Isopropyl Alcohol, DriSolv®

CH<sub>3</sub>CHOHCH<sub>3</sub>

#### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), %..... ≥ 99.9  
Color (APHA)..... ≤10  
Evaporation residue, ppm..... ≤ 1  
Water, ppm..... ≤ 50

VWR Cat. No.	Size
EM-PX1827-7	100 ml 6 x 1L

## Methanol, DriSolv®

Methyl alcohol

CH<sub>3</sub>OH

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.8  
Color (APHA) ..... ≤ 10  
Evaporation residue, ppm ..... ≤ 1  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-MX0472-6	1L 6 x 1L
EM-MX0472-7	100 ml 6 x 100 ml

## Methyl Sulfoxide, DriSolv®

Dimethyl sulfoxide

(CH<sub>3</sub>)<sub>2</sub>SO

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.8  
Color (APHA) ..... ≤ 10  
Evaporation residue, ppm ..... ≤ 5  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-MX1457-6	1L 6 x 1L
EM-MX1457-7	100 ml 6 x 100 ml

## Methyl tert-Butyl Ether, DriSolv®

CH<sub>3</sub>OC(CH<sub>3</sub>)<sub>3</sub>

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.8  
Color (APHA) ..... ≤ 10  
Evaporation residue, ppm ..... ≤ 5  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-MX0824-7	100 ml 6 x 100 ml

## 1-Methyl-2-Pyrrolidone, DriSolv®

(CH<sub>3</sub>)-NC(O)CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.5  
Color (APHA) ..... ≤ 10  
Residue after ignition ..... ≤ 10  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-MX1396-6	1L 6 x 1L
EM-MX1396-7	100 ml 6 x 100 ml

## Pentane, DriSolv®

C<sub>5</sub>H<sub>12</sub>

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99  
Color (APHA) ..... ≤ 10  
Evaporation residue, ppm ..... ≤ 3  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-PX0171-6	1L 6 x 1L

## Pyridine, DriSolv®

C<sub>5</sub>H<sub>5</sub>N

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.8  
Evaporation residue, ppm ..... ≤ 5  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-PX2012-6	1L 6 x 1L
EM-PX2012-7	100 ml 6 x 100 ml

## Tetrahydrofuran, DriSolv®

CH<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O Unstabilized

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.9  
Color (APHA) ..... ≤ 10  
Evaporation residue, ppm ..... ≤ 5  
UV cutoff, nm ..... 212  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-TX0277-6	1L 6 x 1L
EM-TX0277-7	100 ml 6 x 100 ml 6 x 1L

## Tetrahydrofuran, DriSolv®

CH<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>O Stabilized with ~ 25 ppm BHT

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.9  
Color (APHA) ..... ≤ 10  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-TX0284-6	1L 6 x 1L
EM-TX0284-7	100 ml 6 x 100 ml

## Toluene, DriSolv®

C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub> Methylbenzene

### Specifications:

Appearance..... clear, free from particulates  
Assay (GC), % ..... ≥ 99.8  
Color (APHA) ..... ≤ 10  
Evaporation residue, ppm ..... ≤ 5  
Water, ppm ..... ≤ 50

VWR Cat. No.	Size
EM-TX0732-6	1L 6 x 1L
EM-TX0732-7	100 ml 6 x 100 m

## TLC Plates from EMD Millipore

EMD Millipore offers a complete line of TLC plates to complement your work. Choose from the best that Merck KGaA, Darmstadt, Germany, has to offer as a leader in silica and TLC products.

Choose the TLC plate that sets the standard...

Never settle for less!

- Highly purified Silica gel eliminates contamination of your samples.
- Narrow particle size range reduces band-spreading.
- Uniform layer thickness minimizes diffusion and enhances recovery of minute fractions.
- High volume production eliminates the variability often associated with manually-produced plates offered by small volume manufacturers.
- Silica gel on plastic or aluminum foil provides the same high quality TLC surface but allows you to cut the plate to the desired size to economize.
- Merck KGaA has produced sorbents for chromatography for over 100 years, and was the first manufacturer of usable layers on glass plates.
- Eliminate the tedium and potential hazard of cutting TLC plates with pre-cut (2.5 x 7.5 cm) TLC plates from EMD Millipore.

## Precoated TLC Glass Plates, with box for storage

Description	Layer Thickness (mm)	Size (cm)	Plates/Pack	VWR Cat. No.
Silica gel 60 F <sub>254</sub>	0.25	2.5 x 7.5	500	EM1.15341.0001
Silica gel 60 F <sub>254</sub>	0.25	5 x 10	200	EM1.05620.0001
Silica gel 60 F <sub>254</sub>	0.25	5 x 20	100	EM1.05714.0001
Silica gel 60 F <sub>254</sub>	0.25	2.5 x 7.5	100	EM1.05794.0001*
Silica gel 60 F <sub>254</sub>	0.25	2.5 x 7.5	100	EM1.15327.0001**
Silica gel 60 F <sub>254</sub>	0.25	10 x 20	50	EM1.05729.0001
Silica gel 60 F <sub>254</sub>	0.25	20 x 20	25	EM1.05715.0001
Silica gel 60	0.25	2.5 x 7.5	100	EM1.15326.0001
Silica gel 60	0.25	20 x 20	25	EM1.05721.0001

\* Paper box \*\* Plastic box

## LuxPlate® High Fluorescence TLC Plates

Description	Layer Thickness (mm)	Size (cm)	Plates/Pack	VWR Cat. No.
Silica gel 60 F <sub>254</sub>	0.25	2.5 x 7.5	100	EM1.05801.0001
Silica gel 60 F <sub>254</sub>	0.25	5 x 10	25	EM1.05802.0001
Silica gel 60 F <sub>254</sub>	0.25	5 x 20	100	EM1.05803.0001
Silica gel 60 F <sub>254</sub>	0.25	10 x 20	50	EM1.05804.0001
Silica gel 60 F <sub>254</sub>	0.25	20 x 20	25	EM1.05805.0001

## Additional Types and Sizes of TLC Plates

Description	Layer Thickness (mm)	Size (cm)	Plates/Pack	VWR Cat. No.
Silica gel 60 F <sub>254</sub> (prescored 5 x 20 cm)	0.25	20 x 20	20	EM1.05608.0001
Silica gel 60 F <sub>254</sub> (preconcentration zone 2.5 cm)	0.25	20 x 20	25	EM1.11798.0001
(RP) Silica gel RP-18 F <sub>254S</sub>	0.25	10 x 20	50	EM1.15423.0001
(Basic) Aluminum oxide 60 F <sub>254</sub>	0.25	20 x 20	25	EM1.05713.0001
Cellulose	0.1	20 x 20	25	EM1.05716.0001
HPTLC silica gel 60 F <sub>254</sub>	0.20	10 x 20	50	EM1.05642.0001

## Additional Backings of TLC Plates

Description	Layer Thickness (mm)	Size (cm)	Plates/Pack	VWR Cat. No.
Silica gel 60 F <sub>254</sub> (aluminum plates)	0.25	20 x 20	25	EM1.05554.0001
Silica gel 60 F <sub>254</sub> (aluminum plates)	0.25	5 x 20	100	EM1.05534.0001
Silica gel 60 F <sub>254</sub> (plastic plates)	0.25	20 x 20	25	EM1.05735.0001



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