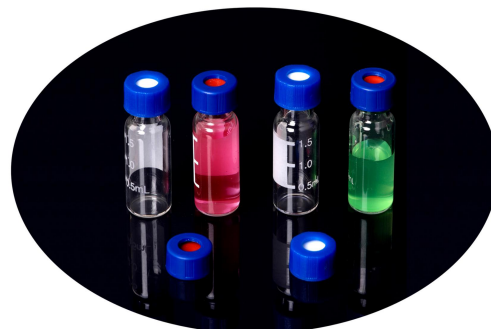


## Micropore™ Sample Vials

Micropore™ sample vials provide advantages over the standard straight glass sample vials. The flared end of the vial makes loading a liquid sample much easier since the flare helps guide the syringe needle into the vial. The flared end also makes the vial much stronger so that vials can easily be inserted and removed from the end of the probe using tweezers without breaking the glass.



## Features

- ◆ Tightest dimensional tolerances in industry
- ◆ MF scan on certificate in every pack
- ◆ Raw Material: Glass tubing, Borosilicate, Type 1, Class A from Schott.
- ◆ Computerized camera system for quality control throughout the manufacturing process to test critical dimensions, including Height, Diameter, Bottom Thickness and Neck/Thread.
- ◆ Only vial/cap/septum combination tested by LCMS for cleanliness
- ◆ Cap/Septum - tested by head space GC to ensure proper curing of silicone polymer

### 2ml Sample Vial



### Micro-Sampling Vial & inserts



### HeadSpace Vial



### Storage Vial



Autosample Vial				
Design of the Neck	Volume	Type of Glass		Dimension
8-425	2mL	Type I, 33 expansion glass (Clear); Type I, 51 expansion glass (Amber)		32*11.6mm
9-425	2mL			
10-425	2mL			
11mm Crimp top	2mL			
Snap top	2mL			
<i>Suitable for: Waters®, Agilent, Beckman®, Thermo®, Dynatech®, Gilson®, Hitachi®, Perkin-Elmer™, Varian®, Spark®.</i>				
Insert Vial				
For 8-425 screw top vial	100µL	Type I, 33 expansion glass		29*5mm
	200µL			31*5mm
	300µL			31*5mm
For 9-425, 10-425, 11mm Crimp top, Snap top vial	250µL			29*6mm
	300µL			31*6mm
	400µL			31*6mm
Storage Vial				
13-425	4mL	Type I, 33 expansion glass (Clear); Type I, 51 expansion glass (Amber)		45*15mm
15-425	8mL			61*16.6mm
15-425	12mL			66*18mm
24-400	20mL			57*27.5mm
24-400	30mL			72.5*27.5mm
24-400	40mL			95*27.5mm
24-400	60mL			140*27.5mm
Headspace Vial				
Design of the Neck	Volume	Top	Bottom	Dimension
18mm Screw top*	10mL	Flat	Flat/Round	46*22.5mm
	20mL		Flat/Round	75*22.5mm
20mm Crimp top	10mL	Flat	Flat/Round	46*22.5mm
	10mL	Bevelled	Flat/Round	
	20mL	Flat	Flat/Round	75*22.5mm
	20mL	Bevelled	Flat/Round	
<i>* Suitable for: CTC Combi PAL(Varian, Gerstel, Atas, Shimadzu), PerkinElmer, Agilent</i>				

Cap & Septa for Autosample Vial		
Design of the Neck	Material	Septa
8-425	Polyethylene	1. Pre-slit Blue PTFE/White Silicone Septa; 2. Red PTFE/White Silicone Septa; 3. White PTFE/Red Silicone Septa.
9-425		
10-425		
11mm Crimp top	Aluminium	1. Red PTFE/White Silicone Septa;
Snap top	Polyethylene	2. White PTFE/Red Silicone Septa.
Cap & Septa for Storage Vial		
Design of the Neck	Material	Septa
13-425	Polyethylene	1. White PTFE/White Silicone Septa; 2. White PTFE/Nature Silicone Septa; 3. Nature PTFE/Nature Silicone Septa;
15-425		
24-400		
Cap & Septa for Headspace Vial		
18mm Screw top	Magnetic Cap	1. Blue PTFE/White Silicone Septa
20mm Crimp top	Aluminium Cap	2. White PTFE/Nature Silicone Septa
	Magnetic Cap	3. Blue PTFE/White Silicone Septa

## Order information

Part No.	Description	Unit
<b>Screw Top, Standard 8-425 Opening Vials</b>		
MPCV2-8SC	2ml Clear vial, 8-425 screw top	100/Box
MPCV2-8SW	2ml Clear vial, 8-425 screw top, graduated with writing area	100/Box
MPAV2-8SC	2ml Amber vial, 8-425 screw top	100/Box
MPAV2-8SW	2ml Amber vial, 8-425 screw top, graduated with writing area	100/Box
<b>Screw caps + Septa for standard 8-425 screw top Vials</b>		
MPCS2-8RB	Red PTFE/White silicone septa+ Black screw cap with hole, for 2ml 8-425 screw top vial	100/PK
MPCS2-8WB	White PTFE/Red silicone septa + Black screw cap with hole, for 2ml 8-425 screw top vial	100/PK
MPCS2-8BP	Blue PTFE/white silicone septa, Pre-slit + Black screw cap with hole, for 2ml 8-425 screw top vial	100/PK
<b>Screw Top, 9-425 Wide Opening Vials</b>		

MPCV2-9SC	2ml Clear vial, 9-425 screw top	100/Box
MPCV2-9SW	2ml Clear vial, 9-425 screw top, graduated with writing area	100/Box
MPAV2-9SC	2ml Amber vial, 9-425 screw top	100/Box
MPAV2-9SW	2ml Amber vial, 9-425 screw top, graduated with writing area	100/Box
<b>Screw caps + Septa for 9-425 Wide Opening screw top Vials</b>		
MPCS2-9WB	White PTFE/Red silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/PK
MPCS2-9RB	Red PTFE/White silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/PK
MPCS2-9BP	Blue PTFE/White silicone septa, Pre-slit + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/PK
MPSP2-9RS	Red PTFE/white silicone septa/red PTFE,(three layer), for 2mL 9-425 screw top vial	100/PK

<b>Part No.</b>	<b>Description</b>	<b>Unit</b>
<b>Crimp Top, 11-425 Wide Opening Vials</b>		
MPCV2-11C	2ml Clear vial, crimp top	100/Box
MPCV2-11W	2ml Clear vial, crimp top, graduated with writing area	100/Box
MPAV2-11C	2ml Amber vial, crimp top	100/Box
MPAV2-11W	2ml Amber vial, crimp top, graduated with writing area	100/Box
<b>Aluminum cap + Septa for 11-425 Wide Opening Crimp top Vials</b>		
MPCS2-11R	Red PTFE/White silicone septa + Aluminium cap, for 2ml crimp top vial	100/PK
MPCS2-11W	White PTFE/Red silicone septa+ Aluminium cap, for 2ml crimp top vial	100/PK
<b>Snap Ring Top, 10-425 Wide Opening Vials</b>		
MPCV2-10S	2ml Clear vial, snap top	100/Box
MPCV2-10W	2ml Clear vial, snap top, graduated with writing area	100/Box
MPAV2-10S	2ml Amber vial, snap top	100/Box
MPAV2-10W	2ml Amber vial, snap top, graduated with writing area	100/Box
<b>4ml 13-425, 8ml 15-425 ,12ml 15-425 Sample Vials, Cap &amp; Septa</b>		
MPCV4SC	4ml Clear vial, 15×45mm, screw top	100/Box
MPAV4SC	4ml Amber vial, 15×45mm, screw top	100/Box
MPCS4SC	Red PTFE/Silicone septa + White cap with hole, for 4ml screw vial	100/PK

MPCS4SO	Red PTFE/White silicone septa + White cap without hole, for 4ml screw top vial	100/PK
MPCV8SC	8ml Clear vial, 15-425, screw top	100/Box
MPCS8SC	PTFE/silicone septa + White screw cap without hole, 15 – 425, for 8ml screw vial	100/PK
MPCV12SC	12ml Clear vial, 15-425, screw top	100/Box
MPCS12SC	PTFE/silicone septa + White screw cap without hole, 15 – 425, for 12 ml screw vial	100/PK
<b>10ml, 20ml Headspace Vials, Cap &amp; Septa</b>		
MPCV10SF	10ml Clear vial, 22.5×46mm, screw top, flat bottom	100/Box
MPCV10CF	10ml Clear vial, 22.5×46mm, crimp top, flat bottom	100/Box
MPCV10SR	10ml Clear vial, 18mm, screw top, round bottom	100/Box
MPCV20CF	20ml Clear vial, 22.5×75mm, crimp top, flat bottom	100/Box
MPCV20CR	20ml Clear vial, 22.5×75mm, crimp top, round bottom	100/Box
MPCV20SR	20ml Clear vial, 18mm, screw top, round bottom	100/Box
MPCS120W	White PTFE/White Silicone + Aluminium cap with hole, for 10ml/20ml crimp top vial	100/PK
MPCS120R	Red PTFE/White Silicone + Aluminium cap with hole, for 10ml/20ml crimp top vial	100/PK
MPCS120S	Blue PTFE/ White silicone septa + Silver screw cap with hole, for 18mm screw top vial	100/PK
<b>20ml, 40ml 60ml 24-400 Vials, Cap &amp; Septa</b>		
MPCV20SC	20ml Clear vial, 24-400 screw top	100/Box
MPAV20SC	20ml Amber vial, 24-400 screw top	100/Box
MPCV40SC	40ml Clear vial, 24-400 28×95mm, screw top, flat bottom	100/Box
MPAV40SC	40ml Amber vial, 24-400 28×95mm, screw top, flat bottom	100/Box
MPCS20SC	Nature PTFE/Nature silicone septa + White screw cap with hole, for 20ml screw top vial	100/PK
MPCS20SO	Nature PTFE/Nature silicone septa + White screw cap without hole, for 20ml screw top vial	100/PK
MPCS40SC	Nature PTFE/Nature silicone septa + White screw cap with hole, for 40ml screw top vial	100/PK
MPCS40SO	Nature PTFE/Nature silicone septa + White screw cap without hole, for 40ml screw top vial	100/PK
MPCV60SC	60ml Clear vial, 24-400, screw top	100/PK
MPCS60SC	PTFE/silicone septa + White screw cap without hole, 24 – 400, for 60ml screw vial	100/PK

Bonded Cap & Septa and Micro-insert & Vials with Fused Insert		
MPVI29CB	Micro-insert 29*5.7mm, Clear Class, conical bottom with assembled plastic spring	100/PK
MPVI31CB	Micro-insert 31*6mm, Clear Class, conical bottom	100/PK
MPVI31FB	Micro-insert 31*6mm, Clear Class, flat bottom	100/PK
MPIV2-9CF	2mL 9-425 Screw top clear vial with 300µL fused insert vial, Base bonded	100/PK
MPIV2-9AF	2mL 9-425 Screw top amber vial with 300µL fused insert vial, Base bonded	100/PK
MPIC2-9CF	2mL 11mm Crimp top clear vial with 300µL fused insert vial, Base bonded	100/PK
MPIC2-9AF	2mL 11mm Crimp top amber vial with 300µL fused insert vial, Base bonded	100/PK

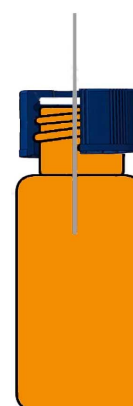
## Micropore® Bonded Cap

Micropore® Bonded caps is designed with septa and polypropylene caps bonded by proprietary bonding technology. Each batch tested and verified by an independent laboratory for the high quality standards. Currently, 12x32mm 9mm screw top vials screw caps and



## Features

- Bonding process eliminates possibility of septa loose and being pushed into the vial
- Pre-slit PTFE/Silicone septa reduce the possibility of coring
- Easy to pierce, durable for multiple penetration, Reduced handling and resulting contamination
- Low extracts, Broad chemical resistant, no interfering peaks, Temperature range of -40 °C to 200 °C



## Order Information

Cat No	Description	Package
MPBC2-9SC	Blue screw cap with hole with bonded White PTFE/Red silicone septa, for 2ml 9-425 screw top vial 1mm thick	100
MPBC2-9SP	Blue screw cap with hole with bonded White PTFE/Red silicone septa, Pre-slit , for 2ml 9-425 screw vial 1mm thick	100
MPBC2-4SC	24-400 White open top PP screw cap bonded with 22mm natural PTFE/white silicone septa 3mm thick	100

## Micropore Bonded Cap Cross Reference

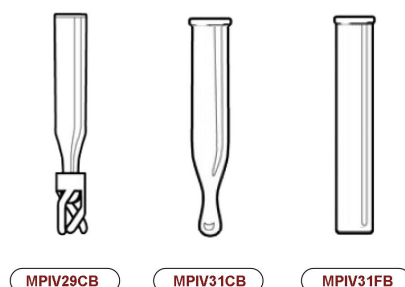
Micropore	Agilent		Waters	Thermo Scientific	La-Pha-Pack	Wheaton
	Certified cap	CrossLab cap				
MPBC2-9SC	5185-5823	8010-0077	186000274	03-246-313	09 04 1220	
		8010-0074	186002129			
		8010-0081	186002130			
			186002456			
MPBC2-9SP	5185-5824		186000305	03-246-314	09 04 1533	09-0036B
	5040-4649		186002128		09 04 1534	
			186002127			
			186002457			



## Micropore® Micro Inserts

### Specifications:

- With Nominal O.D. of 6mm. For 9-425, 10-425, 11mm crimp top and snap top sample vials
- Cushion offered by self-centered poly-spring inserts for the needle
- Solvents saved by the economical micro-inserts



### Order Information

Cat No	Description	Package
MPVI29CB	Micro-insert 29*5.7mm, clear class, conical bottom with assembled plastic spring	100
MPVI31CB	Micro-insert 31*6mm, clear class, conical bottom	100
MPVI31FB	Micro-insert 31*6mm, clear class, flat bottom	100

### Micro Inserts Cross Reference

Micropore	Agilent CrossLab	La-Pha-Pack	Thermo Scientific	Wheaton	Waters
MPVI29CB	8010-0131	06 09 0865	THC06090865	11-0000-100-B	WATD94170
	8010-0132			11-0000-100	WATD94171
MPVI31CB		06 09 0357	THC06090357	11-0000-101-B	
		06 09 0669	THC06090669	11-0000-101	
				09-0000-101	
MPVI31FB	8010-0136	06 09 0866	THC06090866	11-0000-300	
				11-0000-300-b	



## Micropore® 9-425 Screw Top Vials with Fused Insert

### Specifications:

- Glass Type: Type-1, 33 Expansion Borosilicate
- Dimensions: 12\*32mm, Wide opening
- Insert Vial Volume: 300µL
- Screw Top: 9-425 Screw Top

### Features

- Precision-formed glass base offers better stability and more concentrated heat source for dry downs.
- These fused insert vials are manufactured so that the needle will never seal against the insert.
- More stable than conical vials, fused insert vial can be used with other Autosample vials in the sample run.
- These vials are used with many Agilent, CTC PAL, Perkin-Elmer, Shimadzu, and Thermo autosamplers. An excellent choice for budget minded laboratories.

### Order Information

Cat No	Description	Package
MPIV2-9CF	2mL 9-425 Screw top clear vial with 300µL fused insert vial, Base bonded	100
MPIV2-9AF	2mL 9-425 Screw top amber vial with 300µL fused insert vial, Base bonded	100

## Micropore® 11mm Crimp Top Vials with Fused Insert

### Specifications:

- Glass Type: Type-1, 33/51Expansion Borosilicate
- Dimensions: 12\*32mm, Wide opening
- Insert Vial Volume: 300µL/250µL



### Feature

- Precision-formed glass base offers better stability and more concentrated heat source for dry downs.
- These fused insert vials are manufactured so that the needle will never seal against the insert.
- More stable than conical vials, fused insert vial can be used with other Autosample vials in the sample run.
- These vials are used with many Agilent, CTC PAL, Perkin-Elmer, Shimadzu,

### Order Information

Cat No	Description	Package
MPIC2-9CF	2mL 11mm Crimp top clear vial with 300µL fused insert vial, Base bonded	100
MPIC2-9AF	2mL 11mm Crimp top amber vial with 300µL fused insert vial, Base bonded	100
MPIC2-5CF	2mL 11mm Crimp top clear vial with 250µL fused insert vial, Base bonded	100
MPIC2-5AF	2mL 11mm Crimp top amber vial with 250µL fused insert vial, Base bonded	100