

# GC Autosampler Vials

A critical component to a successful chromatography analysis is the autosampler vial. Autosampler vials in several configurations to assist in maintaining sample integrity are available from our Supelco® portfolio.

- Available with crimp seals or screw caps
- Available in clear or amber glass (amber glass protects sensitive samples from exposure to UV light)
- Silanized glass available in some configurations (silanization prevents adsorption on glass surfaces)



## Crimp Top Vials

Description	Pack Size	Cat. No.	Pack Size	Cat. No.
<b>12 x 32 mm, 6.0 mm Opening</b>				
<b>Vials</b>				
2.0 mL, Clear glass, 6.0 mm opening, crimp top	100	SU860055	1000	854964
2.0 mL, Amber glass, 6.0 mm opening, crimp top	100	SU860063	1000	854981
2.0 mL, Clear glass, 6.0 mm opening, crimp top, with marking spot	100	–	1000	854500
2.0 mL, Clear glass, 6.0 mm opening, crimp top, silanized	100	27060-U	1000	27061
2.0 mL, Amber glass, 6.0 mm opening, crimp top, silanized	100	27225-U	1000	27216
2.0 mL, Amber glass, 6.0 mm opening, crimp top, with marking spot	100	854998	–	–
1.5 mL, Maximum recovery vials, clear glass	100	29298-U	–	–
1.1 mL, Clear glass, conical bottom (requires support 27335)	100	27310	1000	27311
0.1 mL, Limited volume vials, clear glass	100	24714	–	–
<b>Inserts for 6.0mm vials</b>				
0.1 mL Glass insert with bottom spring, 6 x 28 mm	100	SU860066	1000	854110
0.1 mL Glass insert, conical, 6 x 31 mm	100	SU860067	1000	854988
0.25 mL Glass insert, conical, 6 x 31 mm	100	24717	1000	24718
0.35 mL Glass insert, shell style, 6 x 31 mm	100	24715	1000	24716
<b>11mm Crimp caps</b>				
Aluminum, clear, 5.5 mm opening, TEF/natural rubber, 1.0 mm thick	100	854140	1000	854980-U
Aluminum, green, 5.5 mm opening, TEF/natural rubber, 1.0 mm thick	–	–	1000	854142
Aluminum, red, 5.5 mm opening, TEF/natural rubber, 1.0 mm thick	–	–	1000	854144
Aluminum, blue, 5.5 mm opening, TEF/natural rubber, 1.0 mm thick	100	854187	–	–
Aluminum, gold, 5.5 mm opening, TEF/natural rubber, 1.0 mm thick	100	854188	–	–
Aluminum, clear, 5.5 mm opening, PTFE/white silicone, 1.3 mm thick	100	SU860094	1000	SU860016
Aluminum, clear, 5.5 mm opening, red PTFE/white silicone/red PTFE, 1.0 mm thick	100	SU860080	–	–
<b>Convenience kits</b>				
2.0 mL Clear vials, with PTFE/red rubber cap, unassembled	100	27239	1000	27240-U
2.0 mL Amber vials, with PTFE/red rubber cap, unassembled	100	27241	1000	27242-U

## Vials Selecting Vials, Inserts, and Caps

### Vial Varieties



**Screw Top Vials**  
These standard and large opening vials are available in both clear and amber glass. They come with a variety of closures and septa.



**Crimp Top Vials**  
These standard and large opening vials are used with aluminum seals. The 11mm aluminum seals have 6mm openings.



**Shell Vials**  
Cylindrical shell vials compatible with plug-style needle closures to make syringe extraction easier.



**Snap-Top Vials**  
For use with snap-ring seals as well as standard aluminum seals.



**ABC Screw Top Vials**  
These vials have a unique thread design that allows you to screw on the caps, and still use them in a robotic autosampler.



**LVI Vials**  
These large opening, crimp top vials have a cone-shaped insert.

### Insert Varieties



**Shell Style Inserts** – These economical inserts stand unsupported in the carrier vial. Capacity 0.25-0.35mL.



**Cone-Shaped Inserts** – These economical inserts stand unsupported in the carrier vial. Capacity 0.10-0.20mL.



**Inserts with Top Springs** – With the unique design, the insert is centered in the neck of the vial. The needle extracts nearly all of the sample.



**Inserts with Bottom Springs** – The unique design allows the insert to be centered in the vial.

### Cap Varieties



**Phenolic Hole Cap**  
Temp. Limit 149°C



**Polypropylene Hole Cap**  
Temp. Limit 135°C



**Polypropylene Solid Cap w/ Aluminum**  
Temp. Limit 135°C  
Not Autoclavable



**Phenolic Solid Cap w/Teflon**  
Temp. Limit 205°C  
Not Autoclavable

### Selecting Screw Top Vials and Components

Volume	Vial OD x Height	Cap Diameter	Cap Thread (GCM) Spec.)	Septum Diameter
2mL (0.5 drams)	12 x 32mm	12mm	8-425	8mm
4mL (1 dram)	15 x 45mm	13mm	13-425	11mm
7mL (2 drams)	17 x 60mm	15mm	15-425	13mm
15mL (4 drams)	21 x 70mm	18mm	18-400	16mm
22mL (6 drams)	23 x 85mm	20mm	20-400	18mm
40mL (10.7 drams)	29 x 81mm	24mm	24-400	22mm
40mL (10.7 drams)	28 x 98mm	24mm	24-400	22mm

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## Vials

### ABC Autosampler Vials

#### ABC Vials, Large Opening, Preassembled, 2mL

Universal autosampler vials, can be used as either crimp-top or screw top. Use with autosamplers that require 12 x 32mm screw top or crimp top vials.



VIAL DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>POLYPROPYLENE CAP, PTFE/SILICONE SEPTUM</b>			
Clear glass	100	27487-U	
	1000	27542	
Clear glass w/markings spot	100	27490-U	
	1000	27548-U	
Amber glass	100	27493	
Amber glass w/markings spot	100	27496	
	1000	27549-U	

<b>POLYPROPYLENE CAP, PTFE/RUBBER SEPTUM</b>			
Clear glass	100	27488-U	
	1000	27544-U	
Clear glass w/markings spot	100	27491-U	
	1000	27550-U	
Amber glass	100	27494	
Amber glass w/markings spot	100	27497-U	
	1000	27551	

<b>POLYPROPYLENE CAP, PTFE/SILICONE/PTFE SEPTUM</b>			
Clear glass	100	27489	
	1000	27546-U	
Clear glass w/markings spot	100	27492-U	
	1000	27552	
Amber glass	100	27495	
Amber glass w/markings spot	100	27498	

#### ABC Vials, Large Opening with 0.3mL LVI Insert

Packs of 100.



VIALS	CAT. NO.	PRICE
Clear glass, no cap	27562-U	
Clear glass, w/PTFE red rubber cap	27564-U	
Clear glass, w/PTFE silicone cap	27565-U	
Clear glass, w/PTFE/silicone/PTFE cap	27566-U	
Clear glass, w/PTFE lined cap	27567-U	
Amber glass, no cap	27563-U	

#### ABC Vials Only, Large Opening, 2mL

VIAL DESCRIPTION	QTY.	CAT. NO.	PRICE
Clear glass	100	27329	
	1000	27554	
Clear glass w/markings spot	100	27330	
	1000	27556	
Amber glass	100	27331	
	1000	27555-U	
Amber glass w/markings spot	100	27332	
	1000	27557	

#### Screw Caps with Septa for ABC Vials

CAP COLOR	QTY.	CAT. NO.	PRICE
<b>PTFE/SILICONE</b>			
Clear	100	27326	
Clear	1000	27558	
<b>PTFE/RED RUBBER</b>			
Clear	100	27327	
Clear	1000	27559	
<b>RED PTFE/SILICONE</b>			
Black	100	507393	
Red	100	507423	
Yellow	100	507466	
<b>PTFE/SILICONE/PTFE</b>			
Clear	100	27328	
Clear	1000	27560-U	
<b>TAN PTFE/SILICONE</b>			
Black	100	507385	
Yellow	100	507458	
<b>PTFE/SILICONE/PTFE</b>			
Black	100	507407	
Yellow	100	507474	

#### Inserts for ABC Vials

INSERT DESCRIPTION	QTY.	CAT. NO.	PRICE
0.35mL glass, shell style	100	24715	
	1000	24716	
0.25mL glass, conical	100	24717	
0.15mL glass w/top spring	100	24719	
0.20mL glass w/bottom spring	100	24721	
0.20mL polypropylene w/bottom spring	100	24722	

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Vials & Syringes

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## Vials

### Pre-Assembled Screw Top Sampling Vials



Vials with Open-Top Screw Caps  
Packs of 100.

CAPACITY	CAT. NO.	PRICE
<b>PHENOLIC CAP, PTFE/SILICONE SEPTUM</b>		
Clear Glass		
2mL	27124-U	
4mL	27136	
7mL	27148	
15mL	27159	
22mL	27170	
40mL (29 x 81mm)	27180	
40mL (28 x 98mm)	27089-U	
Amber Glass		
2mL	27005	
4mL	27006	
7mL	27007	
15mL	27008	
22mL	27009-U	
40mL (29 x 81mm)	27010-U	
40mL (28 x 98mm)	27121-U	
<b>PHENOLIC CAP, PTFE/RED RUBBER SEPTUM</b>		
Clear Glass		
2mL	27123-U	
4mL	27135	
7mL	27147	
15mL	27158	
Amber Glass		
2mL	27011	
4mL	27012	
7mL	27013	
15mL	27014-U	
22mL	27015	

CAPACITY	CAT. NO.	PRICE
<b>POLYPROPYLENE CAP, PTFE/SILICONE SEPTUM</b>		
Clear Glass		
2mL	27208-U	
4mL	27209-U	
7mL	27210	
15mL	27211	
22mL	27212	
40mL (29 x 81mm)	27213	
Amber Glass		
2mL	27046-U	
4mL	27047	
7mL	27048-U	
15mL	27049	
22mL	27050-U	
40mL (29 x 81mm)	27051	
<b>POLYPROPYLENE CAP, PTFE/RED RUBBER SEPTUM</b>		
Clear Glass		
2mL	27202-U	
4mL	27203-U	
7mL	27204	
15mL	27205	
Amber Glass		
2mL	27040-U	
4mL	27041	
7mL	27042-U	
22mL	27044-U	

## Vials

## Pre-Assembled Screw Top Sampling Vials



## Vials with Solid-Top Screw Caps

Packs of 100.

CAPACITY	CAT. NO.	PRICE
<b>PHENOLIC CAP, TEFLON LINER</b>		
Clear Glass		
2mL	27134	
4mL	27138	
7mL	27150-U	
15mL	27161	
22mL	27172-U	
40mL (29 x 81mm)	27181	
Amber Glass		
2mL	27000	
4mL	27001-U	
7mL	27002-U	
15mL	27003	
22mL	27004	
40mL (29 x 81mm)	27182	
<b>PHENOLIC CAP, ALUMINUM LINER</b>		
Clear Glass		
2mL	27125-U	
4mL	27137	
7mL	27149	
15mL	27160-U	
22mL	27171	
Amber Glass		
2mL	27468-U	
7mL	27470-U	
22mL	27472	



## Graduated Vials with Screw Caps

Packs of 100.

CAPACITY	CAT. NO.	PRICE
<b>HOLE CAP, BARRIER SEPTUM</b>		
7mL	27524	
22mL	27526	
40mL	27527	
<b>SOLID CAP, TEFLON LINER</b>		
2mL	27505-U	
4mL	27506-U	
7mL	27507	
15mL	27508	
22mL	27509	
<b>HOLE CAP, THERMOSEAL SEPTUM</b>		
2mL	27499	
4mL	27500-U	
15mL	27502-U	
<b>HOLE CAP, BLUE PTFE/SILICONE</b>		
2mL	27516	
4mL	27517	
7mL	27518	
15mL	27519	
22mL	27520-U	
40mL	27521	

## 2mL Large Opening Vials with Open-Top Screw Caps

Packs of 100.

VIAL DESCRIPTION	CAT. NO.	PRICE
<b>POLYPROPYLENE CAP, RED PTFE/SILICONE SEPTUM</b>		
Clear glass	27531	
Amber glass	27532	
<b>POLYPROPYLENE CAP, DOUBLE-FACED SILICONE SEPTUM</b>		
Clear glass	27533	
Amber glass	27535	
<b>POLYPROPYLENE CAP, PTFE SEPTUM W/SLIT</b>		
Clear glass	27534	
Amber glass	27536	

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Vials &amp; Syringes

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## Vials

### Screw Top Vials, Caps



P000872

#### Vials Only

Screw top glass vials; caps not included. Packs of 100.

CAPACITY	CAT. NO.	PRICE
<b>CLEAR</b>		
1.5mL	507369	
2mL	27078	
2mL – Large Opening	27265	
4mL	27111	
7mL	27151	
15mL	27162	
22mL	27173	
40mL (29 x 81mm)	27184	
40mL (28 x 98mm)	27379	
<b>AMBER</b>		
2mL	27083-U	
2mL – Large Opening	27267-U	
4mL	27115-U	
7mL	27072-U	
15mL	27088-U	
22mL	27073-U	
40mL (29 x 81mm)	27185-U	
40mL (28 x 98mm)	27382	



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#### Graduated Vials Only

Graduated screw top clear glass vials; caps not included. Packs of 100.

CAPACITY	CAT. NO.	PRICE
2mL	27023	
4mL	27024	
7mL	27025	
15mL	27026	
22mL	27027-U	
40mL	27028-U	



P000354

#### Screw Caps Only Packs of 100.

VIAL CAPACITY	CAT. NO.	PRICE
<b>PHENOLIC W/HOLE</b>		
2mL	27094-U	
4mL	27120-U	
7mL	27154	
15mL	27165	
22mL	27176	
40mL	27187	
<b>POLYPROPYLENE W/HOLE</b>		
2mL	27052	
2mL Large Opening	27271	
4mL	27053	
7mL	27054	
22mL	27056	
40mL	27057	
<b>SOLID W/TEFLON LINER</b>		
2mL	27091-U	
2mL Large Opening	27416	
4mL	27141	
7mL	27152	
15mL	27163	
22mL	27174-U	
40mL	27186	
<b>SOLID W/ALUMINUM LINER</b>		
2mL	27092-U	
2mL Large Opening	27415	
4mL	27142	
7mL	27153	
15mL	27164	
22mL	27175-U	



P000873

#### Assembled Screw Caps with Septa

Hole caps with PTFE/silicone septa.

VIAL CAPACITY	QTY.	CAT. NO.	PRICE
2mL	100	27262	
2mL Large Opening	100	27273	
4mL	100	27018	
7mL	100	27019	
15mL	100	27020	
22mL	100	27021	
40mL	100	27022	

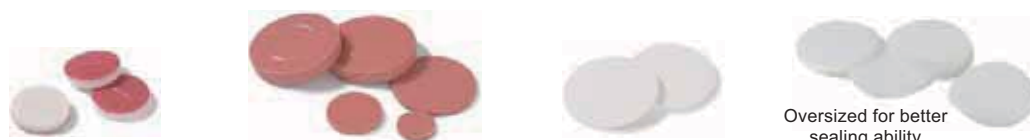
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## Selecting Septa for Screw Top Vials

All septa in  
packs of 100.



VIAL VOLUME/ SEPTA DIAMETER	RED PTFE/SILICONE CAT. NO.	\$	TAN PTFE/SILICONE CAT. NO.	\$	BLUE PTFE/SILICONE CAT. NO.	\$	THERMOSEAL CAT. NO.	\$
2mL / 8mm	27097-U		27095-U		27510-U		27191	
2mL L.O.* / 10mm	27277		—	—	—	—	—	—
4mL / 11mm	—	—	27144	—	27511	—	27192	—
7mL / 13mm	—	—	27155	—	27512	—	27193	—
15mL / 16mm	—	—	27166	—	27513	—	27194	—
22mL / 18mm	—	—	27177	—	27514	—	27195	—
40mL / 20mm	—	—	27236	—	—	—	27540-U	—
40mL / 22mm	—	—	27188-U	—	27515	—	27196	—



Oversized for better  
sealing ability

VIAL VOLUME/ SEPTA DIAMETER	PTFE/SILICONE W/SLIT CAT. NO.	\$	PTFE/RED RUBBER CAT. NO.	\$	WHITE PTFE/SILICONE CAT. NO.	\$	TEFLON LINER (0.010) CAT. NO.	\$
2mL / 8mm	27098-U		27132		—	—	27133	
2mL L.O.* / 10mm	27279		—	—	—	—	27281	
4mL / 11mm	—	—	27145	—	27356	—	27146	—
7mL / 13mm	—	—	27156	—	—	—	27157	—
15mL / 16mm	—	—	27167	—	—	—	27168	—
22mL / 18mm	—	—	27178	—	—	—	27179	—
40mL / 20mm	—	—	27233	—	27361	—	—	—



VIAL VOLUME/ SEPTA DIAMETER	BARRIER CAT. NO.	\$	VITON CAT. NO.	\$	PTFE/SILICONE/PTFE CAT. NO.	\$
2mL / 8mm	24882-U		27350-U		27096-U	
2mL L.O.* / 10mm	—	—	—	—	27275	—
4mL / 11mm	24883	—	27351	—	27122-U	—
7mL / 13mm	24884	—	27352	—	—	—
15mL / 16mm	24885-U	—	—	—	—	—
22mL / 18mm	24886-U	—	27354	—	—	—
40mL / 20mm	27189	—	27247	—	—	—
40mL / 22mm	27190-U	—	27355	—	—	—

\*L.O. - Large opening

P000874-84

### Compatibility/Incompatibility of Septa

#### Barrier (maximum temp. 350°C)

Silicone bonded to aluminum. Use in sealing applications where non-permeability and low volatility are required at temperatures above 177°C. Affected by many organic solvents (see examples under Silicone).

#### Butyl (maximum temp. 200°C)

Use with many organic solvents: acetic acid (<50%), acetonitrile, acetone, alcohols, DMSO, phenol. Not compatible with alkanes, benzene, carbon disulfide, chlorinated solvents, cyclohexane.

#### Red rubber (maximum temp. 100°C)

Use with many hydrocarbons, acetonitrile, alcohols, cyclohexane. Not compatible with chlorinated solvents.

#### Silicone (maximum temp. 250°C)

Use with acetone, alcohols, DMSO, ether, aqueous samples. Affected by many organic solvents: acetonitrile, benzene, chloroform, hexane, pyridine, tetrahydrofuran, toluene.

#### Teflon/Rubber (maximum temp. 100°C)

Use with most organics (until pierced). Resistant to chlorosilanes.

#### PTFE/Teflon/Silicone (maximum temp. 250°C)

Use with most organics (until pierced). Not recommended for use with chlorosilanes.

#### PTFE/ThermoSeal (maximum temp. 300°C)

An improved grade of silicone septa that can be used at higher temperatures. Affected by many organic solvents (see examples under Silicone).

#### Viton (maximum temp. 315°C)

Resists mineral oil, aliphatic and aromatic hydrocarbons, high concentrations of acids, high temperatures. Not compatible with strong bases, ketones, low molecular weight esters.

## Vials

### Screw Top Autosampler Vials

#### 2mL SCREW TOP VIALS

12 x 32mm (12 x 35mm WITH CAP)

Use with:

Agilent / HP 7670A, 7671A, 1042, 1090	Infochroma	Sedere
AIM CPS-100	Jasco	Shimadzu <sup>®</sup> SIL-6A, AOC9
ASC	Kontron	Spectra-Physics <sup>®</sup> 8875, 8880
Beckman 501, 507	LDC/Milton Roy	TOA Model ICA450, ICA5450
Bruker LC51	Magnus Scientific	TOA Model ICA450, ICA5450
Carlo Erba AS105, 8000	Perkin-Elmer ISS 100, ISS 200	TosoH TSK-6080
Gilson (Rack 30P)	Perkin-Elmer Autosystem <sup>®</sup>	United Technologies
Hitachi AS-2000, AS-4000	Phillips LC-XP	Varian 8000, 8100, 8200, 8035, 8055/85
IBM	Precision Sampling GC111, GC311, LC24	Varian Vista Series
		Vavex

♦ Screw top vial with polypropylene cap only. ♦ Black phenolic closure. Cat. No. 27094-U is recommended.



#### 2mL Screw Top and Shell Vials

DESCRIPTION	QTY.	CAT. NO.	PRICE	DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS ONLY</b>				<b>OPEN-TOP CLOSURES, PRE-ASSEMBLED</b>			
2mL clear glass	100	27078		Polypropylene w/red PTFE/silicone septa	100	27262	
	1000	27079		Polypropylene KIM-LOK w/PTFE/silicone septa	100	27261-U	
2mL amber glass	100	27083-U		Phenolic w/tan PTFE/silicone septa	100	27093-U	
	1000	27087-U			1000	33242	
2mL clear, precleaned	100	27339		<b>SEPTA, 8mm</b>			
2mL amber, precleaned	100	27344		Red PTFE/silicone/red PTFE, 0.040"	100	27096-U	
2mL clear glass, silanized	100	27029-U			1000	23182-U	
	1000	27030		Tan PTFE/silicone, 0.065"	100	27095-U	
2mL amber glass, silanized	100	27238			1000	33213	
	1000	27219		Red PTFE/white silicone, 0.065"	100	27097-U	
2mL clear, with graduations	100	27023			1000	23243	
2mL clear glass w/markings spot	100	27080-U		PTFE/silicone w/slit, 0.040"	100	27098-U	
	1000	27081-U			1000	24881	
2mL amber glass w/markings spot	100	27084-U		Black Viton, 30 mil thickness	100	27350-U	
	1000	27085-U		White PTFE, 0.010" (for use w/solid cap)	100	27133	
0.75mL polypropylene	100	24709		PTFE/ red rubber	100	27132	
	1000	24710		<b>INSERTS, SHELL STYLE</b>			
<b>SHELL VIALS WITH CLOSURES</b>				0.25mL glass, 5 x 31mm	200	24701	
2mL clear TITSEAL	200	27255			1000	24702	
	2000	27256		<b>INSERTS, CONICAL</b>			
2mL amber TITSEAL	200	27257		0.10mL glass, 5 x 31mm	200	24703	
	2000	27258			1000	24704	
<b>SCREW TOP MICRO-VIALS</b>				0.15mL glass w/polyflange, 5 x 29mm	100	24705	
0.1mL clear glass	12	33206-U			500	24706	
	144	33241		0.05mL glass w/bottom spring	100	27400-U	
0.1mL polypropylene	200	24712		0.15mL glass w/bottom spring, 5 x 29mm	100	24707	
	1000	24713		0.15mL polypropylene w/bottom spring, 5 x 29mm	100	24708	
0.1mL plastic w/glass insert	100	27090-U		<b>1.5mL SCREW TOP VIALS</b>			
0.1mL amber plastic w/ glass insert w/8mm thread	100	27412		12 x 30mm, 8/425 FINISH			
<b>CLOSURES, 8 X 425</b>				Use with:			
Phenolic, solid caps w/PTFE liner	100	27091-U		Perkin-Elmer Autosampler			
Phenolic, solid caps w/aluminum liner	100	27092-U		CAUTION: The inserts on this page will not fit 1.5mL vials.			
Phenolic, black, open top	100	27094-U		<b>DESCRIPTION</b>			
Polypropylene, black, open top	100	27052		<b>QTY.</b>			
	1000	24764		<b>CAT. NO.</b>			
Polypropylene, yellow, open top	1000	24765		<b>PRICE</b>			
Top seal, polypropylene, clear, 0.010"	100	27402		1.5mL	100	507369	
Hole cap, black, large opening	100	27401			1000	507377	
Top hat, black, w/silicone septa	100	27403-U					
Top hat, yellow, w/silicone septa	100	27404					

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Vials & Syringes



## Vials

### Screw Top Autosampler Vials

#### 2mL SCREW TOP VIALS – LARGE OPENING (10mm OPENING)

12 x 32mm

Use with:

Alcott 738

Hitachi AS-2000, AS-4000

Shimadzu AOC-14/1400, AOC-17, SIL 6B, SIL 9A, SIL 6A

(Use white and yellow closures only.)

Varian 8100, 8200

Waters Alliance



#### 2mL Screw Top Vials – Large Opening

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS ONLY</b>			
2mL clear glass	100	27265	
	2000	27266	
2mL amber glass	100	27267-U	
2mL step vials, amber glass	100	27406	
2mL step vials, clear glass, with 0.25mL glass insert	100	27418	
2mL step vials, amber glass, with 0.25mL glass insert	100	27419	
0.5mL polypropylene w/10mm thread	100	27410	
0.75mL polypropylene w/10mm thread	100	27411	
1.0mL polypropylene	100	27269	
	1000	27270-U	
<b>PRE-ASSEMBLED VIALS</b>			
2mL clear, w/red PTFE/silicone septa	100	27531	
2mL amber, w/red PTFE/silicone septa	100	27532	
2mL clear, w/ PTFE/silicone/PTFE septa	100	27533	
2mL amber, w/ PTFE/silicone/PTFE septa	100	27535	
2mL clear, w/ PTFE/silicone septa, w/slit	100	27534	
2mL amber, w/ PTFE/silicone septa, w/slit	100	27536	
<b>CLOSURES, 10 x 425</b>			
Polypropylene, black, open top	100	27271	
	1000	27272-U	
Polypropylene, yellow, open top, 10mm	100	27413	
Polypropylene, white, open top, 10mm	100	27414	
Polypropylene, black, solid caps, foil lined	100	27415	
Polypropylene, black, solid caps, PTFE lined	100	27416	
Top seal, clear polypropylene, 0.010"	100	27417	
<b>OPEN-TOP CLOSURES, PRE-ASSEMBLED</b>			
Polypropylene w/PTFE/silicone septa	100	27273	

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>SEPTA, 10mm</b>			
Red PTFE/silicone/red PTFE, 0.040"	100	27275	
	1000	27276	
Red PTFE/silicone, 0.063"	100	27277	
	1000	27278	
PTFE/silicone w/slit, 0.040"	100	27279	
	1000	27280-U	
White PTFE, 0.010" (for use with solid cap)	100	27281	
	1000	27282	
<b>INSERTS, SHELL STYLE</b>			
0.35mL glass, 6 x 31mm	100	24715	
	1000	24716	
<b>INSERTS, CONICAL</b>			
0.05mL glass w/glass flange, 6 x 25mm	100	27408	
0.25mL glass, 6 x 31mm	100	24717	
0.15mL glass w/top spring, 6 x 29mm	100	24719	
0.20mL glass w/bottom spring, 6 x 29mm	100	24721	
0.20mL polypropylene w/bottom spring, 6 x 29mm	100	24722	
<b>INSERTS FOR STEP VIALS</b>			
0.25mL glass w/glass flange	100	27407	
0.25mL polypropylene w/plastic flange	100	27409	
<b>KIM-BIN WORK STATION</b>			
Station with 2000 clear screw top 2mL (normal opening) vials w/caps and PTFE/silicone septa	1	27264-U	
Unfilled station	1	27263	



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Vials &amp; Syringes

SUPELCO

## Vials

### Screw Top Autosampler Vials

#### 4mL SCREW TOP VIALS

15 x 45mm

Use with:

Brucker LC51  
 Gilson  
 Kontron MSI 660  
 Perkin-Elmer Autosystem  
 Phillips LC-XP  
 Shimadzu AOC-14/1400, SIL-2AS, LC-10A  
 Spark Marathon  
 TosoH TSK-6080  
 Waters 48-Position, 717



#### 4mL Screw Top Vials

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>SCREW TOP VIALS, 15 x 45mm</b>			
4mL clear glass	100	27111	
	1000	27031	
4mL amber glass	100	27115-U	
	1000	27032	
4mL clear, precleaned	100	27340	
4mL amber, precleaned	100	27345	
4mL clear, silanized	100	27114	
	1000	27220-U	
4mL amber, silanized	100	27217	
4mL clear, with graduations	100	27024	
4mL clear w/markings spot	100	27112	
	1000	27113	
4mL amber w/markings spot	100	27116-U	
	1000	27117-U	
4mL plastic w/glass insert	100	27243	
<b>OPEN-TOP CLOSURES, 13-425</b>			
Phenolic, black	100	27120-U	
Polypropylene, black	100	27053	
Polypropylene cap w/PTFE/silicone septa, 0.065"	100	27018	
13mm black top hat, w/PTFE/silicone septa	100	27439	
<b>SOLID CAPS, 13-245</b>			
w/PTFE liner	100	27141	
w/Aluminum liner	100	27142	

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>SEPTA, 11mm</b>			
Red PTFE/silicone/red PTFE, 0.040"	100	27122-U	
PTFE/red rubber	100	27145	
White PTFE, 0.010" (for solid cap)	100	27146	
Tan PTFE/silicone septa, 0.060"	100	27144	
White PTFE/white silicone	100	27356	
	1000	27369-U	
Viton	100	27351	
	1000	27364	

#### INSERTS AND SPRINGS

0.75mL clear glass, shell style, 8 x 43mm	200	24746	
	1000	24747	
0.25mL clear glass, conical, 6 x 39mm	100	27118-U	
	1000	27076	
0.275mL glass w/plastic flange	100	27443	
0.3mL glass w/top spring	100	27444	
0.3mL polypropylene w/top spring	100	27445	
Spring (for 0.30mL conical insert)	100	27086-U	
0.15mL clear glass w/bottom spring, 6 x 38mm	100	24748	
0.15mL polypropylene w/bottom spring, 6 x 38mm	100	24749	

#### Polypropylene Limited Volume Shell Vials With Starburst Conical Snap Plugs

These polypropylene limited volume shell vials, with uniquely designed conical interior, eliminate the need for glass vials and inserts. No tedious laboratory assembly is required. These vials work in 48-position autosamplers.

Precise conical design permits maximum sample evacuation. They are more effective and cost efficient than standard glass vials and inserts. The starburst design in the snap plug allows easy penetration.

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>3mL SHELL VIALS, 15 x 45mm</b>			
Polypropylene w/starburst conical snap plugs	100	27538	

#### Pre-Assembled Vials Kit

Includes each of the following (in packs of 100).

Screw top vials, 15 x 45mm,  
 4mL glass inserts, 0.30mL clear glass,  
 conical springs for 0.30mL conical insert  
 closures, open top, phenolic, black septa,  
 red PTFE/red rubber

DESCRIPTION	CAT. NO.	PRICE
4mL Screw Top Vials Kit		
Clear glass	27110	
Amber glass	27528	



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## Silane Treated Vials and Accessories

## Silane-Treated Vials and Accessories

- Proprietary silane treatment shields active silanol groups on untreated glass surfaces
- Improved recovery of submicrogram polar compounds
- Save time and money

To obtain a quote on silane treatment for other sizes of glassware, please contact your Sigma-Aldrich representative.



P000376

BESCHREIBUNG	PK.	KAT. NR.	PREI
<b>CRIMP TOP VIALS, 2mL</b>			
Large Opening Vials, Silane-Treated, 12 x 32mm			
2mL clear glass,	100	27060-U	
large opening (6mm)	1000	27061	
2mL amber glass,	100	27225-U	
large opening (6mm)	1000	27216	
Aluminum Seals, Color Coded, 11mm			
w/PTFE/red rubber, silver	100	27102-U	
	1000	33233-U	
w/Red PTFE/silicone	100	27360-U	
	1000	27373	
w/Black Viton liner	100	27107	
	1000	33278-U	
w/Red PTFE/silicone/red PTFE	100	27108	
	1000	27109-U	
w/Removable center (no septa)	100	27099-U	
<b>SCREW TOP VIALS, 2mL</b>			
Standard Opening Vials, Silane-Treated, 12 x 32mm			
2mL clear glass	100	27029-U	
	1000	27030	
2mL amber glass	100	27238	
	1000	27219	
Open-Top Closures, Pre-Assembled			
Polypropylene			
w/red PTFE/silicone septa	100	27262	
Polypropylene KIM-LOK			
w/PTFE/silicone septa	100	27261-U	
Phenolic w/red PTFE/silicone septa	100	27093-U	
	1000	33242	

BESCHREIBUNG	PK.	KAT. NR.	PREI
<b>SCREW TOP VIALS, 2mL (cont'd)</b>			
Solid Caps, 8-425			
Phenolic, solid caps w/Teflon liner	100	27091-U	
Phenolic,			
solid caps w/aluminum liner	100	27092-U	
Phenolic, black, open top	100	27094-U	
Polypropylene, black, open top	100	27052	
	1000	24764	
Polypropylene, yellow, open top	1000	24765	
Septa for Screw Top Vials, 8mm			
Red PTFE/silicone/red PTFE, 0.040"	100	27096-U	
	1000	23182-U	
Tan PTFE/silicone, 0.065"	100	27095-U	
	1000	33213	
Red PTFE/white silicone, 0.065"	100	27097-U	
	1000	23243	
PTFE/red rubber	100	27132	
Standard Opening Vials, Silane-Treated, 15 x 45mm			
4mL clear glass	100	27114	
	1000	27220-U	
4mL amber glass	100	27217	
Open-Top Closures, 13-425			
Phenolic, black	100	27120-U	
Polypropylene, black	100	27053	
Polypropylene cap			
with PTFE/silicone liner, 0.065"	100	27018	
Solid Caps, 13-425			
w/PTFE liner	100	27141	
w/Aluminum liner	100	27142	
Septa for Screw Top Vials, 11mm			
Red PTFE/silicone/red PTFE, 0.040"	100	27122-U	
PTFE/red rubber	100	27145	
Tan PTFE/silicone septa, 0.060"	100	27144	
<b>AMPULS AND INSERTS</b>			
Ampuls, Silane-Treated			
2mL amber glass	144	27033	
Conical Inserts, Silane-Treated, 0.3mL			
Fit 15 x 45mm screw top vials	1000	27128-U	

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Vials & Syringes

SUPELCO

## Vials

### SPME Autosampler Vials



#### Vials for Varian 8200 Autosampler

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>LARGE OPENING 2mL VIALS WITH CAPS, PTFE/SILICONE SEPTA</b>			
Clear, 2mL (12mm OD x 32mm)	100	27531	
Amber, 2mL (12mm OD x 32mm)	100	27532	
<b>10mL SCREW TOP VIALS, WITH CAPS, PTFE/SILICONE SEPTA</b>			
Clear, 10mL, Preassembled	100	27529	
Amber, 10mL, Preassembled	100	27530	
<b>CAPS, SEPTA FOR 10mL SCREW TOP VIALS</b>			
Vial only, clear (24.5mm x 52mm)	36	27387	
Vial only, amber (24.5mm x 52mm)	144	27388	
Vial only, clear (24.5mm x 52mm)	36	27389	
Vial only, amber (24.5mm x 52mm)	144	27390-U	
Cap with hole (22mm)	144	23236	
PTFE/silicone septa 0.125" thick, 20mm diameter	100	27236	
<b>10mL CRIMP TOP VIALS (FOR THIN SEALS)</b>			
Clear vials only, 10mL (24.5mm x 50mm)	36	27385	
Clear vials only, 10mL (24.5mm x 50mm)	144	27286	
<b>CLOSURES FOR 10mL CRIMP TOP VIALS</b>			
20mm seal with thin Viton septa (0.030")	36	33146-U	
20mm seal with thin Viton septa (0.030")	100	27245	
20mm PTFE/silicone septas (0.030")	100	27539	

#### Headspace Vials for CTC Autosampler (Combi PAL)\*

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>FLAT BOTTOM</b>			
10mL clear glass (23mm x 46mm)	100	27198	
20mL clear glass (23mm x 75mm)	100	27199	
<b>ROUND BOTTOM</b>			
10mL clear glass (22.6mm x 46mm)	100	27294	
10mL clear glass (22.6mm x 46mm)	1000	27295	
20mL clear glass (22.6mm x 75mm)	100	27296	
20mL clear glass (22.6mm x 75mm)	1000	27297	
<b>CLOSURES AND ACCESSORIES FOR BOTH 10mL AND 20mL VIALS</b>			
<b>Closures (Tin Plate, Magnetic Seals) with PTFE lined silicone</b>			
	100	27300	
Adjustable crimper for 20mm seals	1	22316-U	
* Autosampler distributed by Leap, Varian and Gerstel			



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Vials & Syringes



## Vials SPME Sampling Stand Vials



\* Heating block not included

### Vials for SPME Sampling Stand

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>WITH 4mL VIAL HOLDER PUCK</b>			
4mL screw top vials (15mm x 45mm)			
Clear, preassembled, phenolic caps & PTFE/silicone	100	27136	
Amber, preassembled, phenolic caps & PTFE/silicone	100	27006	
Vials only, clear	100	27111	
Vials only, clear	1000	27031	
Vials only, amber	100	27115-U	
Vials only, amber	1000	27032	
Vials only, clear silanized	100	27114	
Vials only, clear silanized	1000	27220-U	
Vials only, amber silanized	100	27217	
Open closures and septa for 4mL vials			
Phenolic cap with hole	100	27120-U	
White PTFE silicone septa (11mm)	100	27356	
White PTFE silicone septa	1000	27369-U	
Viton Septa (11mm)	100	27351	
Viton Septa	1000	27364	
<b>WITH 15mL VIAL HOLDER PUCK</b>			
15mL screw top vials (21mm x 70mm)			
Clear, preassembled, phenolic caps & PTFE /silicone	100	27159	
Amber, preassembled, phenolic caps & PTFE/ silicone	100	27008	

### Vials for 40mL Heating Block

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>40mL SCREW TOP VIALS (29mm x 81mm only)</b>			
Clear, preassembled, phenolic cap and PTFE/silicone	100	27180	
Amber, preassembled, phenolic cap and PTFE/silicone	100	27010-U	
Vial only, clear	100	27184	
Vial only, amber	100	27185-U	
<b>CLOSURES FOR 40mL VIAL</b>			
Phenolic caps with hole	100	27187	
Viton septa (22mm)	100	27355	
PTFE/Silicone septa	100	27188-U	

### Manual SPME Sampling Stand

Holds eight vials while supporting the SPME syringe for consistent fiber immersion depth. Cat. No.57333-U accommodates 4mL vials only. Cat. No. 57357-U accommodates 15mL vials. Order the 15mL vial puck (Cat. No. 57358-U) as a replacement for the 15mL unit, or to use 15mL vials with the 4mL unit. Not for use with automated / HPLC fiber holders.



### Heat/Stir Plate

Fits compactly on the base of the SPME sampling stand. Heating range is 40-550°C, stirring range is 60-1200rpm.

### 40mL Vial Holder

Use this aluminum block for heating/stirring during headspace SPME sampling of odors or other volatiles. Holds six 40mL vials.

DESCRIPTION	CAT. NO.	PRICE
SPME sampling stand for 4mL vials	57333-U	
SPME sampling stand for 15mL vials	57357-U	
Vial puck for 15mL vials	57358-U	
40mL Vial Holder	33313-U	
Corning heat/stir plate, 120VAC	Z262129-1EA	
Thermometer, 5"	57332	

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## Vials

### Crimp Top Autosampler Vials

#### VIALS TAKING 8mm CRIMP SEALS

##### CHROMACOL VIALS, 6 x 32mm

Use with:  
Waters 96-Position Autosampler



27283

#### VIALS TAKING 8mm CRIMP SEALS

##### CHROMACOL UNI-VI VIALS, 7 x 30mm, 7 x 32mm

Use with:

Agilent / HP (not 1090A)	PU 4247
Autometric 4100	Shimadzu AOC-14/1400
Beckman 501/502/507	SIL 6B/9A/LC-1
Dani ALS 86.80	Spark Promis
LDC Marathon, Promis	Spectra-Physics
Perkin-Elmer Integral 4000	



27314

27312

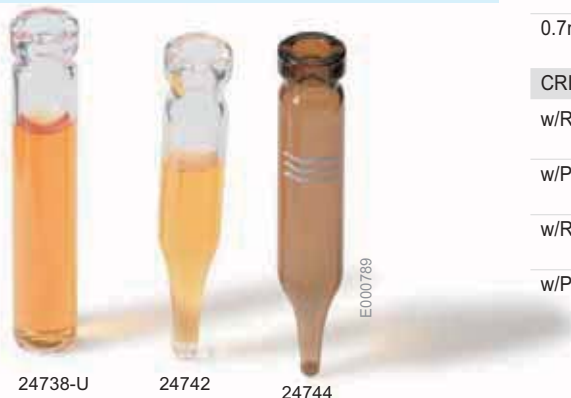
27316 + 27312

#### VIALS TAKING 8mm CRIMP SEALS

##### 7 x 40mm

Use with:

Beckman 504	Gilson 231-401, 232-401
Carlo Erba AS200S, A200S	(Rack 9) (not ASPEC)
du Pont	ICI LC1600
Finnigan A200S	Phillips S4, S8, 4700LC/GC
	SGE LS-3200



24738-U

24742

24744

DESCRIPTION	QTY.	CAT. NO.	PRICE
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VIALS			
0.2mL clear glass, tapered bottom	200	27283	
	1000	27284	
0.3mL clear glass, round bottom	200	24725	
	1000	24726	
CRIMP SEALS, 8mm			
w/Red PTFE/silicone/red PTFE	200	33265-U	
	1000	33266-U	
w/PTFE/silicone	200	33273-U	
	1000	33274-U	
w/Red PTFE/silicone	100	27359	
	1000	27372	
w/PTFE/red rubber	200	33135-U	
	1000	33136	

DESCRIPTION	QTY.	CAT. NO.	PRICE
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VIALS			
0.6mL amber glass, conical (7 x 30mm)	200	27312	
	1000	27313	
0.8mL amber glass, round bottom (7 x 32mm)	100	27314	
	1000	27315	
PTFE support sleeve (required with above)	40	27316	
CRIMP SEALS, 8mm			
w/Red PTFE/silicone/red PTFE	200	33265-U	
	1000	33266-U	
w/PTFE/silicone	200	33273-U	
	1000	33274-U	
w/Red PTFE/silicone	100	27359	
	1000	27372	
w/PTFE/red rubber	200	33135-U	
	1000	33136	

DESCRIPTION	QTY.	CAT. NO.	PRICE
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VIALS			
0.8mL clear glass	200	24738-U	
	2000	24739	
0.8mL amber glass	200	24740-U	
	2000	24741	
0.7mL clear glass, conical	200	24742	
	1000	24743	
0.7mL amber glass, conical	200	24744	
	1000	24745	
CRIMP SEALS, 8mm			
w/Red PTFE/silicone/red PTFE	200	33265-U	
	1000	33266-U	
w/PTFE/silicone	200	33273-U	
	1000	33274-U	
w/Red PTFE/silicone	100	27359	
	1000	27372	
w/PTFE/red rubber	200	33135-U	
	1000	33136	

## Crimp Top, Snap Plug Autosampler Vials

## VIALS TAKING 8mm CRIMP SEALS

8 x 30mm

Use with:

Carlo Erba AS-V60  
Dynatech GC1111, 60, GC311  
Hitachi AS-2000, AS-4000

Perkin-Elmer AS100, LC600(60),  
AS2000, AS100B, AS300,  
LLLC30, 2000, B2000  
Sigma 2000



DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS</b>			
0.5mL clear glass	200	33275	
	1000	33276	
0.5mL amber glass	200	24723	
	2000	24724	
<b>CRIMP SEALS, 8mm</b>			
w/Red PTFE/silicone/red PTFE	200	33265-U	
	1000	33266-U	
w/PTFE/silicone	200	33273-U	
	1000	33274-U	
w/Red PTFE/silicone	100	27359	
	1000	27372	
w/PTFE/red rubber	200	33135-U	
	1000	33136	

## VIALS TAKING 8mm SNAP PLUGS

VIALS WITH POLYPROPYLENE PLUGS, 8 x 35mm

Use with:

Alcott 728



DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS</b>			
0.75mL clear glass	200	24727	
	1000	24728	
0.75mL amber glass	200	24729	
	1000	24730	
<b>DISPLACEMENT PLUGS</b>			
Polypropylene, blue	100	27289	

## VIALS TAKING 8mm SNAP PLUGS

8 x 40mm

Use with:

Shimadzu 10A Autosampler  
Waters 96-Position Autosampler



DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS</b>			
1mL clear glass, without closure	200	33320-U	
	1000	33325-U	
1mL amber glass, without closure	1000	24732	
1mL clear glass, with closure	200	33321-U	
	1000	33326	
1mL amber glass, with closure	250	27290	
	1000	27291	
0.7mL shell vials (polypropylene w/starburst conical snap plugs)	100	27537	
<b>SNAP PLUG CLOSURES, COLOR CODED, 8mm</b>			
Natural	200	33322-U	
	1000	33327	
Red	200	33323	
	1000	33328-U	
Blue	200	33324	
	1000	33329	
<b>INSERTS AND SPRINGS FOR 8 x 40mm VIALS</b>			
0.20mL clear glass conical (requires spring)	200	24733	
	1000	24734	
Spring for 24733 & 24734	200	24735	
0.10mL clear glass conical w/bottom spring	100	24737	
0.15mL polypropylene w/bottom spring	100	24708	

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Vials &amp; Syringes

SUPELCO

## Vials

### Crimp Top Autosampler Vials

#### VIALS TAKING 11mm CRIMP SEALS

12 x 32mm

Use with:

Agilent / HP 7673 series I/II, 7670A, 7671A, 1042, 1090, 8042, 1050, 1082, 1080, 1084, 7683	Carnegie CMA 230/200 Chrompack Dani 39.80, ALS 39.80 Dynatech 42	Perkin-Elmer Autosystem, ISS 100, ISS 200, 400, LC600(42), 4900, 420B Phillips LC-XP	Varian 8100, 8200, Marathon, LC 9100/9095
AIM C x PS-200 A.I. (42 vial tray)	Finnigan 200S Gilson (Rack 30P)	Precision Sampling GC111, GC311, LC241	
Alcott 738 Altex AMS 42	Gynkotek Hitachi AS-2000, AS-4000 IBM	Shimadzu AOC-14/1400, SIL- 6B/9A Spark	
Antek 736 ASC Beckman 501, 507 Carlo Erba AS V42, AS 105	Infochroma Kipp Kontron 360 Packard	Spectra-Physics 7110, 8110 Talbot TosoH TSK-6080 United Technologies	



Crimp Top Vials, 4.6mm Opening

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS</b>			
2mL clear glass	100	27068-U	
	1000	27069	
2mL amber glass	100	27070-U	
	1000	27071-U	
<b>INSERTS</b>			
Shell style	100	24701	
0.25mL clear glass, 5 x 31mm	1000	24702	
Conical style	200	24703	
0.10mL glass, 5 x 31mm	1000	24704	
0.15mL glass w/polyflange, 5 x 29mm	100	24705	
0.15mL glass w/bottom spring, 5 x 29mm	100	24707	
0.15mL polypropylene w/bottom spring, 5 x 30mm	100	24708	



Crimp Top Vials, 6.0mm Opening

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS</b>			
2mL clear glass	100	27058	
	1000	27059	
2mL amber glass	100	27064	
	1000	27065	
2mL clear glass with marking spot	100	27062-U	
	1000	27063	
2mL amber glass with marking spot	100	27066-U	
	1000	27067-U	
<b>INSERTS</b>			
Shell style	100	24715	
0.35mL clear glass, 6 x 31mm	1000	24716	
Conical style			
0.25mL glass, 6 x 31mm	100	24717	
0.15mL glass w/top spring, 6 x 29mm	100	24719	
	1000	24720	
0.20mL glass w/bottom spring, 6 x 29mm	100	24721	
0.20mL polypropylene w/bottom spring, 6 x 29mm	100	24722	

#### Convenience Packs: Vials and Seals

Multi-pack combinations of 2mL large opening vials and 11mm PTFE/red rubber aluminum seals.

DESCRIPTION	QTY.	CAT. NO.	PRICE
Clear	100	27239	
	1000	27240-U	
Amber	100	27241	
	1000	27242-U	

## Vials Crimp Top Autosampler Vials

### VIALS TAKING 11mm CRIMP SEALS

12 x 32mm

Use with autosamplers listed on previous page.

Maximum Recovery  
Clear Glass Vial  
27274



E000786

Vial with  
Conical Bottom  
27333



E000787



KOMBO Pack  
27106

33195

P000395

33281

P000391

P000355

### Crimp Top Vials, Special Varieties

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS, LARGE OPENING</b>			
Maximum recovery vials, 1.5mL AP-2000, clear	100	27274	
Limited volume vials, 0.1mL, clear glass	100	24714	
<b>MICRO VIALS, STANDARD OPENING, CONICAL</b>			
0.1mL clear glass	12	33208	
	144	33232	
0.1mL polypropylene	100	27075-U	
	1000	33217-U	
0.1mL plastic w/glass cone	100	27074-U	
0.6mL plastic w/glass cone	100	33255-U	
<b>VIALS, TAPERED BOTTOM</b>			
1.1mL clear glass	100	27310	
	1000	27311	
<b>SUPPORT SLEEVES, PTFE, NONDISPOSABLE</b>			
For 27310 or 27311	50	27335	
<b>VIALS, CONICAL BOTTOM</b>			
0.9mL clear glass, 10 x 32mm	125	27333	

### 11mm Crimp Seals

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>CRIMP SEALS, COLOR CODED, 11mm</b>			
w/PTFE/red rubber, silver	100	27102-U	
	1000	33233-U	
w/PTFE/red rubber, red	100	27103	
	1000	27473	
w/PTFE/red rubber, blue	100	27104	
	1000	27381	
w/PTFE/red rubber, gold	100	27105	
	1000	27474	
<b>KOMBO Pack (12 colors, 25 of each color)</b>			
w/Red PTFE/silicone, silver	100	27360-U	
	1000	27373	
w/White PTFE/white silicone, silver	100	27214-U	
	1000	27215	
w/Black Viton liner, silver	100	27107	
w/Red PTFE/silicone/red PTFE, silver	100	27108	
	1000	27109-U	
w/Removable center (no septa), silver	100	27099-U	
<b>CRIMPERS AND DECAPPERS, 11mm</b>			
Hand crimper	1	33195	
Pliers-type decapper	1	33281	
Hand decapper	1	33181-U	

### KIM-BIN Work Station

A convenient way to organize your vials. Available filled with supplies or unfilled. Cat. No. 27231-U includes 3000 clear large opening 2mL vials, PTFE/red rubber 11mm septa, and seals. Cat. No. 27264-U includes 2000 clear screw top 2mL vials (standard opening), red PTFE/silicone septa, and black phenolic closures (recommended for Varian and Spectra Physics autosamplers).



27263

P000399

DESCRIPTION	CAT. NO.	PRICE
Station with Crimp Top Vials	27231-U	
Station with Screw Top Vials	27264-U	
Unfilled Station	27263	

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## Vials

### Snap Top Autosampler Vials

#### VIALS TAKING 11mm SNAP TOP SEALS

##### LARGE OPENING, 12 x 32mm

##### Use with:

Agilent / HP 7673 series I/II, 7670A, 7671A, 1042, 1090, 8042, 1050, 1082, 1080, 1084	Hitachi AS-2000, AS-4000 Infochroma
AIM CPS-200	Kipp Packard
A.I. (42 vial tray)	Perkin-Elmer Autosystem, ISS
Alcott 738	100, 200, 400, LC600(42), 4900, 420B
Altex	Phillips LC-XP
AMS 42	Precision Sampling GC111, GC311, LC241
Antek 736	Shimadzu AOC-14/1400, SIL- 6B/9A
ASC	Spark
Beckman 501, 507	Spectra-Physics 7110, 8110
Carlo Erba AS V42, AS 105	Talbot
Carnegie CMA 230/200	TosoH TSK-6080
Chrompack	United Technologies
Dani 39.80, ALS 39.80	Varian 8100, 8200, Marathon, LC 9100
Dynatech 42	
Finnigan 200S	
Gilson (Rack 30P)	
Gynkotek	



27249



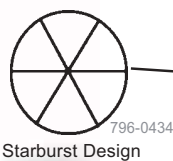
24752



27253



24722



Starburst Design



27427



E000813

#### Snap Top Vials, Large Opening

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS</b>			
2mL clear glass	100	24750-U	
	2000	24751	
2mL amber glass	100	24752	
	2000	24753	
2mL clear glass w/marketing spot	100	27249	
	1000	27250-U	
2mL amber glass w/marketing spot	100	27251	
	1000	27252	
0.75mL polypropylene	100	27253	
	1000	27254	
0.50mL polypropylene	100	27422	
0.10mL polypropylene	100	27423	
<b>POLY-CRIMP SEAL CAPS</b>			
w/PTFE liner	100	24754	
w/PTFE/red rubber	100	24756	
w/PTFE/silicone liner	100	24758	
w/PTFE/silicone with slit	100	27426	
w/PTFE/silicone with starburst	100	27427	
w/PTFE/silicone/PTFE with starburst	100	27428	
w/PTFE/silicone/PTFE	100	24760-U	
<b>GC-SNAP RINGS (tighter seal for pressurized systems)</b>			
Polypropylene with PTFE/rubber septa	100	27430-U	
Polypropylene with PTFE/silicone/PTFE septa	100	27432	
<b>INSERTS, SHELL STYLE</b>			
0.35mL clear glass, 6 x 31mm	100	24715	
	1000	24716	
<b>INSERTS, CONICAL</b>			
0.25mL glass, 6 x 31mm	100	24717	
0.15mL glass w/top spring, 6 x 29mm	100	24719	
0.20mL glass w/bottom spring, 6 x 29mm	100	24721	
0.20mL polypropylene w/bottom spring, 6 x 29mm	100	24722	
0.25mL polypropylene w/plastic flange (for step vial)	100	27409	
0.25mL glass w/glass flange (for step vial)	100	27407	



## Vials Crimp Top Vials



### Crimp Top Vials, 2mL to 100mL

These vials are constructed of clear, borosilicate glass.

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>2mL VIALS AND CLOSURES (11mm DIAMETER)</b>			
Vials only (12 x 32mm), 2mL, clear♦	100	27058	
	1000	27059	
Vials only (12 x 32mm), 2mL, amber♦	100	27064	
	1000	27065	
<b>2.5mL VIALS (13mm DIAMETER)</b>			
Vials only (11.7 x 34.5mm), 2.5mL	288	33121	
Closures for 33121			
Crimp seals, removable center, no septum	100	27222-U	
Crimp seals, removable center, PTFE/rubberseptum	100	27223	
	1000	27451	
Crimp seals, silver w/PTFE/silicone liner	100	27452	
PTFE/rubber septum	100	27156	
Butyl stopper	100	27224	
Red rubber stopper	100	27226	

### Accessories for 2mL-2.5mL Crimp Top Vials

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>ALUMINUM CRIMP SEALS, 13mm</b>			
Removable center	100	27222-U	
<b>ALUMINUM CRIMP SEALS, 11mm</b>			
Open center	100	27099-U	
<b>STOPPERS, 13mm</b>			
Butyl	100	27224	
Red rubber	100	27226	
<b>STOPPERS, 11mm</b>			
Butyl♦	100	27100-U	
<b>SEPTA, 11mm</b>			
Teflon/red rubber♦	100	27101	

♦ For standard opening vials – 4.6mm.

### Crimpers and Decappers

DESCRIPTION	CAT. NO.	PRICE
<b>8mm</b>		
Hand Crimper	33272-U	
Pliers-type Decapper	33284	
Hand Decapper	33180-U	
<b>11mm</b>		
Hand Crimper	33195	
Hand Crimper, Adjustable	22313-U	
Pliers-type Decapper	33281	
Hand Decapper	33181-U	
<b>13mm</b>		
Hand Crimper	33279-U	
Pliers-type Decapper	33282	
Hand Decapper	33182-U	
<b>20mm</b>		
Hand Crimper	33280-U	
Hand Crimper, Adjustable	22316-U	
Pliers-type Decapper	33283	
Hand Decapper	33183	



33195



33281

## Vials

### Crimp Top Headspace Vials



#### Headspace Vials Taking 20mm Crimp Seals

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>VIALS, BEVELED FINISH</b>			
6mL clear glass (22 x 38mm)	100	27292	
	1000	27293	
6mL clear glass (23 x 38mm)	100	27197	
10mL clear glass (23 x 46mm)	100	27198	
10mL clear glass (22.6 x 46mm)	100	27294	
	1000	27295	
20mL clear glass, flat bottom (23 x 75mm)	100	27199	
20mL clear glass, round bottom (22.6 x 75mm)	100	27296	
	1000	27297	
27mL clear glass (30 x 60mm)	100	27298	
	1000	27299	

#### Convenience Packs

Each pack contains 100 crimp top vials (20mm) and 100 pressure release aluminum seals.

SEAL DESCRIPTION	CAT. NO.	PRICE
<b>10mL VIAL CAPACITY</b>		
With PTFE/silicone	27303-U	
With PTFE/butyl rubber	27304-U	
<b>20mL VIAL CAPACITY</b>		
With PTFE/butyl	27305-U	
With PTFE/silicone	27306	
With PTFE/butyl rubber	27307	



#### Serum Bottles, 5mL to 100mL

These vials are constructed of clear, borosilicate glass.

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>SERUM BOTTLES, 5-100mL VIALS (20mm DIAMETER)</b>			
Vials only (25 x 40mm), 5mL, clear	36	33102-U	
	288	33103	
Vials only (25 x 40mm), 5mL, amber	36	33141-U	
Vials only (25 x 50mm), 10mL, clear	36	33104	
	288	33105-U	
Vials only (25 x 50mm), 10mL, amber	36	33143	
	288	33144	
Vials only (36.6 x 62.8mm), 30mL, clear	36	33106	
	288	33107-U	
Vials only (43 x 73mm), 50mL, clear	36	33108-U	
	272	33109-U	
Vials only (51.7 x 94.5mm), 100mL, clear	36	33110-U	
	144	33111-U	

## Accessories for Crimp Top Headspace Vials

## Accessories for Vials w/20mm Opening

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>ALUMINUM CRIMP SEALS/SEPTA, 20mm</b>			
Open center, PTFE/rubber septum <sup>■</sup>	100	27454-U	
Open center, PTFE/silicone septum <sup>■</sup>	100	27455-U	
Removable center, PTFE red rubber septum <sup>■</sup>	100	27228	
Tin plate, open center, PTFE/silicone septum <sup>■▲</sup>	100	27300	
Open center, PTFE/white silicone, 2 mil PTFE septum	100	27229	
Open center, white PTFE/white silicone, 5 mil PTFE septum	100	27362	
	1000	27375	
Tin plate, open center, PTFE/butyl rubber septum	100	27301-U	
Open center, Viton septum	36	33146-U	
Open center, black Viton septum <sup>▲</sup>	100	27245	
	1000	27246	
<b>ALUMINUM CRIMP SEALS, 20mm w/o SEPTA</b>			
Open center	100	27227-U	
Open center	100	27230-U	
Tear away center	100	27016	
Tear away center <sup>■</sup>	100	27200	
<b>SEPTA, 20mm</b>			
Black Viton <sup>◆</sup>	100	27247	◆
	1000	27248-U	
PTFE/Teflon faced butyl	100	27201	
PTFE/Teflon/rubber	100	27233	
PTFE/Teflon (2mil)/silicone (125 mil total)	100	27236	
PTFE/Teflon (10mil)/silicone (100 mil total)	100	27237-U	
Barrier (foil/silicone)	100	27189	
PTFE/silicone (60 mil total)	100	27541	
PTFE/silicone (125 mil total, 5/120)	100	27361	
	1000	27374	
Thermoseal	100	27540-U	
<b>STOPPERS, 20mm</b>			
Gray Butyl	100	27232	
Red rubber	100	27234	
Silicone	100	27235-U	

■ For 6mL, 10mL, 20mL headspace vials.

▲ For use with Carlo Erba HS 500 & 700, Leap HS 500, and CTC Combi-PAL autosamplers.

◆ This septum is thinner than most (0.030"), and requires the use of an adjustable crimper.

## Mininert Valves for Crimp Top Vials

- Fit 5-100mL vials (20mm seal)
- Install without tools
- Inert Teflon construction

DESCRIPTION	QTY.	CAT. NO.	PRICE
Mininert valves	12	33305	
Replacement septa	50	33310-U	
Septum inserter	1	33311	



27454-U



P000339

Pressure Release,  
Open Center

508500



P000336

Open Center

27227-U



P000338

Removable Center

27016



P000892

Tear Away

Black Viton Septa



P000337

P000341

Teflon/Rubber  
Septa

Stoppers



P000342

33305



E000825

Mininert Valves

## Vials Prcleaned Sampling Containers



P000893

Prcleaned Vials

Cleaned for water sampling according to US EPA 40CFR 136, Guidelines for Establishing Test Procedures for the Analysis of Pollutants. These vials are assembled with open-top screw caps and specially designed septa (10 mils of Teflon facing on 90 mils of silicone). Clear vials are made of Wheaton-33 low extractable borosilicate glass. Amber vials are Wheaton-320 borosilicate glass.



P000368

Prcleaned Containers

The following containers are cleaned according to US EPA protocol B. Black polypropylene cap with 0.030" Teflon liner.

CAPACITY	CAP SIZE	QTY.	CAT. NO.	PRICE
<b>CLEAR GLASS</b>				
2mL	8-425	100	27339	
4mL	13-425	100	27340	
7mL	15-425	100	27341	
15mL	18-400	100	27342	
22mL	20-400	100	27343	
40mL (28 x 98mm)	24-400	72	23188	
<b>AMBER GLASS</b>				
2mL	8-425	100	27344	
4mL	13-425	100	27345	
7mL	15-425	100	27346	
15mL	18-400	100	27347	
22mL	20-400	100	27348	
40mL (28 x 98mm)	24-400	72	23189	
<b>REPLACEMENT SEPTA FOR 40mL SAMPLING VIALS</b>				
10 mil Teflon/90 mil silicone		100	27188-U	

CAPACITY	CAP SIZE	QTY.	CAT. NO.	PRICE
<b>CLEAR GLASS, TALL, WIDE MOUTH</b>				
4 oz.	48/400	24	24551-U	
8 oz.	58/400	24	24552	
16 oz.	63/400	12	24553-U	
32 oz.	89/400	12	24554	
<b>CLEAR GLASS, TALL, NARROW MOUTH</b>				
32 oz.	33/400	12	24550-U	
<b>AMBER GLASS, SHORT, WIDE MOUTH</b>				
4 oz.	38/400	12	24555	
8 oz.	45/400	12	24556	
16 oz.	53/400	12	24557-U	
32 oz.	53/400	12	24558	
<b>AMBER GLASS, SHORT, NARROW MOUTH</b>				
32 oz.	33/430	12	24559	
<b>AMBER GLASS JUG, NARROW MOUTH</b>				
80 oz.	38/430	6	24560	
128 oz.	38/430	4	24561	



## Vials Micro Volume Containers

### Micro Reaction Vessels

Cone shaped inside for easy removal of small samples. Heavy wall borosilicate glass. Supplied with Teflon-faced red rubber septum and cap. Can be autoclaved or centrifuged.



### Accessories for Micro Reaction Vessels

DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>PHENOLIC HOLE SCREW CAPS</b>			
13mm	100	27120-U	
15mm	100	27154	
20mm	100	27176	
24mm	100	27187	
<b>SEPTA</b>			
For 13mm screw cap	100	27145	
For 15mm screw cap	100	27156	
For 20mm screw cap	100	27178	
For 24mm screw cap	100	27188-U	
<b>MININERT VALVES</b>			
For 13mm screw cap	12	33300	
For 15mm screw cap	12	33301	
For 18mm screw cap	12	33302	
For 20mm screw cap	12	33303	
For 24mm screw cap	12	33304	
For 20mm crimp top	12	33305	
Replacement septa	50	33310-U	
Septum inserter	1	33311	
<b>CRIMP SEALS</b>			
For 2mL & 5mL vessels	100	27229	
<b>MAGNETIC STIRRING BARS (TRIANGULAR)</b>			
For 0.1-2.0mL vessels	6	23226	
For 3.0-5.0mL vessels	6	23227	

### Screw Top Vessels with Caps and Septa

CAPACITY	OD/HT./DEPTH	CAP	QTY.	CAT. NO.	PRICE
<b>CLEAR GLASS (GRADUATED)</b>					
With hole cap					
0.1mL	16.5 x 32 x 16mm ▲	15mm	12	33289	
0.3mL	16.5 x 34 x 23mm ▲	15mm	12	33291	
1mL	16.5 x 40 x 33mm ▲	15mm	12	33293	
2mL	16.5 x 58 x 48mm ▲	15mm	12	33295	
3mL	20.5 x 42 x 42mm ▲	20mm	12	33297	
5mL	20.5 x 61 x 58mm ▲	20mm	12	33299	
10mL*	24.0 x 72mm ▲	24mm	12	27479	
With solid cap					
0.1mL	16.5 x 32 x 16mm ▲	15mm	12	27034	
0.3mL	16.5 x 34 x 23mm ▲	15mm	12	27035	
1mL	16.5 x 40 x 33mm ▲	15mm	12	27036	
2mL	16.5 x 58 x 48mm ▲	15mm	12	27037	
3mL	20.5 x 42 x 42mm ▲	20mm	12	27038-U	
5mL	20.5 x 61 x 58mm ▲	20mm	12	27039	
<b>AMBER GLASS</b>					
With hole cap					
1mL	13 x 41mm ■	13-425	12	27475-U	
2mL	20 x 41mm ■	20-400	12	27476	
3mL	20 x 47mm ■	20-400	12	27477-U	
5mL	20 x 62mm ■	20-400	12	27478-U	

▲ Height with cap; depth from septum to bottom of cone.  
 ■ Height without cap.  
 \* Not graduated.

### Crimp Top Vessels

CAPACITY	DIAMETER	QTY.	CAT. NO.	PRICE
2mL	20mm	12	27377	
5mL	20mm	12	27378	



### Plastic Coated Storage Bottles, Caps Included

DESCRIPTION	QTY.	CAT. NO.	PRICE
100mL 10 x 59mm	12	23171	
500mL 187 x 91mm	12	23172	
1000mL 224 x 104mm	12	23173	
Caps (GL-45) polypropylene w/seal ring, 45mm	12	23170-U	

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Order: 1.800.325.30



## Vials

### Sampling and Storage Containers

#### Large Amber Screw Top Septum Bottles

Protect your sample from sunlight. Only glass and Teflon contact the contents.



DESCRIPTION	QTY.	CAT. NO.	PRICE
<b>30mL (32 x 80mm)</b>			
Bottles w/hole cap, Teflon/silicone septa	12	23228	
Bottles	12	23232	
Hole caps, no septa	100	27176	
Solid caps, polyseal liner	144	23238	
Septa, Teflon/silicone	144	23242-U	
<b>60mL (38 x 95mm)</b>			
Bottles w/hole cap, Teflon/silicone septa	12	23229	
Bottles	12	23233	
Hole caps, no septa	100	27176	
Solid caps, polyseal liner	144	23238	
Septa, Teflon/silicone	144	23242-U	
<b>120mL (49 x 114mm)</b>			
Bottles w/hole cap, Teflon/silicone septa	12	23230-U	
Bottles	12	23234	
Hole caps, no septa	144	23236	
Solid caps, polyseal liner	144	23240-U	
Septa, Teflon/silicone			
2 mil Teflon, 0.120"	100	27236	
10 mil Teflon, 0.100"	100	27237-U	
<b>240mL (61 x 143mm)</b>			
Bottles w/hole cap, Teflon/silicone septa	12	23231	
Bottles	12	23235	
Hole caps, no septa	144	23237	
Solid caps, polyseal liner	144	23241	
Septa, Teflon/silicone	144	23245-U	

#### Screw Top Mini Flasks

Heat resistant borosilicate glass flasks provide an inert seal when used with a hole cap and Teflon silicone septum (included) or a Mininert valve. Excellent for liquid-liquid extraction of trihalomethanes from drinking water. Also useful for sample collection, solution preparations, derivatization reactions, extractions, and many other applications.



DESCRIPTION	QTY.	CAT. NO.	PRICE
10mL	12	64715	
25mL	12	64716-U	
Screw caps w/hole, 20mm	12	27176	
Septa, PTFE/silicone	100	27177	
Mininert valves, 20mm	12	33303	



#### Crimpers and Decappers

DESCRIPTION	CAT. NO.	PRICE
<b>8mm</b>		
Hand Crimper	33272-U	
Pliers-type Decapper	33284	
Hand Decapper	33180-U	
<b>11mm</b>		
Hand Crimper	33195	
Hand Crimper, Adjustable	22313-U	
Pliers-type Decapper	33281	
Hand Decapper	33181-U	
<b>13mm</b>		
Hand Crimper	33279-U	
Pliers-type Decapper	33282	
Hand Decapper	33182-U	
<b>20mm</b>		
Hand Crimper	33280-U	
Hand Crimper, Adjustable	22316-U	
Pliers-type Decapper	33283	
Hand Decapper	33183	