

Storage Vials



A range of larger volume glass vials for use in liquid storage and environmental testing.
This includes TOC certified, barcoded and environmental liquid sampling vials.

Storage Vials

Key to products ■ Vial

For general storage applications Chromacol dram vials take caps with standard GPI threads. Both injection caps with piercable seals or solid PTFE lined storage caps may be supplied separately, or in part of convenience packs. The vials are Class 1 hydrolytic extraction neutral borosilicate glass to give assurance of sample stability and low extraction. Most configurations are also supplied in amber glass with similar hydrolytic activity.

Additional Features

When using in automated storage systems the vials may be supplied with pre-applied barcoded labels to your specification.



Part Number	Nominal Volume	OD (mm)	HT (mm)	Screw (mm)	Description	Dram Vials GPI Thread	Pack Size
40-SV	40mL	28	95	24	8 dram vial with 24-400 screw neck		100
40-SV(A)	40mL	28	95	24	8 dram vial with 24-400 screw neck		100
22-SV	22mL	23	85	20	6 dram vial with 20-400 screw neck		200
16-SV	16mL	21	70	18	4 dram vial with 18-400 screw neck		200
16-SV(A)	16mL	21	70	18	4 dram amber vial with 18-400 screw neck		200
12-SV	12mL	19	65	15	3 dram vial with 15-425 screw neck		185
12-SV(A)	12mL	19	65	15	3 dram amber vial with 15-425 screw neck		200
8-SV	8mL	17	60	15	2 dram vial with 15-425 screw neck		200
8-SV(A)	8mL	17	60	15	2 dram amber vial with 15-425 screw neck		200
4-SV	4mL	15	45	13	1 dram vial with 13-425 screw neck		500
4-SV(A)	4mL	15	45	13	1 dram amber vial with 13-425 screw neck		500
3.5-HRSV	3.5mL	15	45	13	1 dram high recovery vial with 13-425 screw neck		500
2-SV	2mL	12	32	8	0.5 dram vial with 8-425 screw neck		500
2-SV(A)	2mL	12	32	8	0.5 dram vial amber with 8-425 screw neck		500

Storage Vials

Key to products ■ Vial ■ Cap ■ Combi Pack ■ Seal

Combination Packs

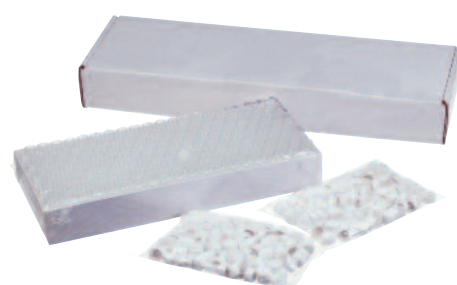
Common combinations of vials and closures can be ordered together for greater convenience and assured fit.

Storage Combination Packs

PART NUMBER	VIAL	CAP	PACK SIZE
22-SV-CP	22-SV	20-SCST	200
16-SV-CP	16-SV	18-SCST	200
16-SV(A)-CP	16-SV(A)	18-SCST	200
12-SV-CP	12-SV	15-SCST	200
12-SV(A)-CP	12-SV(A)	15-SCST	200
8-SV-CP	8-SV	15-SCST	200
8-SV(A)-CP	8-SV(A)	15-SCST	200

Injection Combination Packs

PART NUMBER	VIAL	CAP	SEPTUM	PACK SIZE
22-SVST-CP	22-SV	20-SC	20-ST3S	200
16-SVST-CP	16-SV	18-SC	18-ST3S	200
16-SV(A)ST-CP	16-SV(A)	18-SC	18-ST3S	200
12-SVST-CP	12-SV	15-SC	15-ST3S	200
12-SV(A)ST-CP	12-SV(A)	15-SC	15-ST3S	200
8-SVST-CP	8-SV	15-SC	15-ST3S	200
8-SV(A)ST-CP	8-SV(A)	15-SC	15-ST3S	200



Caps and Seals

Screw Caps

PART NUMBER	GPI FINISH	PACK SIZE
24-SCST	24-400 storage cap with liner - white	100
20-SCST	20-400 storage cap with liner - white	100
18-SCST	18-400 storage cap with liner - white	100
15-SCST	15-425 storage cap with liner - white	100
13-SCST	13-425 storage cap with liner - white	100
8-SCST	8-425 storage cap with liner - white	100
24-SC	24-400 injection cap only - white	100
20-SC	20-400 injection cap only - black	100
18-SC	18-400 injection cap only - black	100
15-SC	15-425 injection cap only - black	100
13-SC-ST15	13-425 injection cap with seal - black	500
8-SC-ST15	8-425 injection cap with seal - black	500
12-SCS	12mm solid cap - black	500
8-SCS	8-425 solid cap - black	500
22-SCS	R3 PP solid cap - white - unlined	100
18-SCS	R3 PP solid cap - white - unlined	1000
14-SCS	14mm custom - white	1000
24-ST3S	Silicone/PTFE seal for 24-SC cap	100
20-ST3S	Silicone/PTFE seal for 20-SC cap	100
18-ST3S	Silicone/PTFE seal for 18-SC cap	100
15-ST3S	Silicone/PTFE seal for 15-SC cap	100



Storage Vials

Powder Vials

For dry powder weighing and dispensing the walls of these vials are free of neck constrictions and traps. The external custom 14mm thread takes a white polypropylene cap that is compatible with most robotic transfer systems.

Two versions are available with nominal volumes of 5mL and 7mL with a 14mm od.

PART NUMBER	NOMINAL VOLUME	OD (MM)	HT (MM)	SCREW (MM)	DESCRIPTION	Powder Vials	PACK SIZE
6.7-SV	6.7mL	15	70	14	7mL powder vial with 14mm custom external thread		175
5.3-SV	5.3mL	15	48	14	5mL powder vial with 14mm custom external thread		187
14-SCS	-	-	-	-	14mm white solid screw cap		1000



Universal Vials

This 30mL vial is ideally suited for sample storage.

PART NUMBER	NOMINAL VOLUME	OD (MM)	HT (MM)	SCREW (MM)	DESCRIPTION	Universal R3 Threaded Vials & Caps	PACK SIZE
30-USVC	30mL	28	83	22	Universal vial with 22mm R3 screw neck, cap included		125
10-USVC	10mL	16	96	18	Universal vial with 18mm R3 screw neck, cap included		528
5-USVC	5mL	16	43	18	Universal vial with 18mm R3 screw neck, cap included		221



Other Storage Tubes

Round bottom tubes with 12mm screw threads for secure closure. Use with 12mm or 13-425 caps, both storage and injection versions; see page 38.

PART NUMBER	NOMINAL VOLUME	OD (mm)	HT (mm)	SCREW (mm)	DESCRIPTION	Other Storage Tubes	PACK SIZE
10-SV	10mL	13	100	12	Clear screw top round bottom vial		125
5-SV	5mL	13	60	12	Clear screw top round bottom vial		125



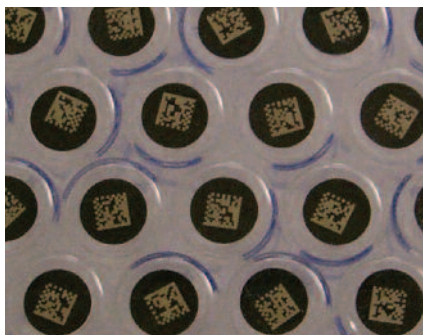
Other Applications

For COD (Chemical Oxygen Demand) one type of tube is available. This vial is compatible with heating and measurement systems from a range of manufacturers. Made from neutral glass to withstand the heating required. Use with either 15-SCST (storage cap) or 15-SC (injection cap) with 15-ST3S (Seal), see page 70.

PART NUMBER	NOMINAL VOLUME	OD (mm)	HT (mm)	SCREW (mm)	DESCRIPTION	COD Vials 15-425 Thread	PACK SIZE
AGE-A1003	10mL	15	100	15	Clear neutral narrow neck screw vial		1126

Compound Storage

Key to products ■ Vial



Barcoded Vials

Vials are pre-printed with a unique code, that is machine-readable and can be downloaded into database and sample handling software.

2D Coded Etched Vials

2D codes are used because the amount of information carried by the code is as great as a linear code of many times the length.

Datamatrix coding is used as standard with a number of reading systems and scanners.

Vials may be read singly or an array of tubes may be logged using a bottom reading scanner.

In almost all cases it is possible to give a permanent marking directly onto the glass surface that is not affected by moisture, heat or solvent attack. By utilising the correct 2D label size and resolution much more data can be included than is possible with even high-resolution linear 1D codes. (2D base labels are not available on the 3.5-HRSV).



Linear Pre-Applied Labels

Most Chromacol glass vials may be pre-labelled with a variety of barcode symbologies, including Code 128, Code 39 and Interleaved 2 of 5

Label Specifications

Labels are selected to give resistance to commonly used solvents and chemicals including DMSO and Xylene.

Adhesives are selected to give a very high level of attachment with minimal edge lift.

The labels are resistant to high levels of humidity and low temperatures found in cooled sample storage units.



Etched Linear Labels

For the ultimate in chemical and physical resistance the linear code may be permanently etched onto the vial. With high contrast background high levels of readability and error checking is found. These can be specified for Dram and Powder Storage Vials.

PART NUMBER	NOMINAL VOLUME	OD (MM)	HT (MM)	SCREW (MM)	DESCRIPTION	Coded Vials
4-SV-BC-DM2	4mL	15	45	13	1 dram vial with specified etched linear and matched 2D datamatrix code	
4-SV-BC-DM	4mL	15	45	13	1 dram vial with specified etched 2D datamatrix code	
4-SV-BC-IL	4mL	15	45	13	1 dram vial with specified etched linear barcode	
2-SV-BC-DM2	2mL	12	32	8	0.5 dram vial with specified etched 2D datamatrix code and matched 2D datamatrix code	
2-SV-BC-DM	2mL	12	32	8	0.5 dram vial with specified etched 2D datamatrix code	
2-SV-BC-IL	2mL	12	32	8	0.5 dram vial with specified etched linear barcode	

Special Dual Labels

Linear and 2D datamatrix matched etched codes are available on the 4mL dram vials and 2mL 0.5 dram vials.

Custom Labels

In addition to the required symbology the labels may be supplied with additional information such as company information, logo or hazard information. The digital printing methods are able to produce coloured logos, print and key colour patches as shown.

Key to products ■ Combi Pack

Level 300 Cleaned and Certified

These containers are processed and packaged under a registered ISO Quality Management System. The containers are laboratory certified to meet U.S. EPA Super Fund Standards in accordance with the latest edition of EPA's "Specifications and Guidance for Contaminant Free Sample Containers". The Level 300 Certificate of Analysis is backed by third party generated validatable laboratory data, and provides complete traceability through the production process. Every case of Level 300 product contains a Certificate of Analysis and is custody sealed to ensure reliable chain-of-custody.

Level 200 Cleaned

These containers are processed and packaged under a strict registered ISO Quality Management System in the same manner as Level 300 products; however, Level 200 products are not certified. Every case of product is labelled with its production number and is custody sealed to ensure reliable chain-of-custody.

Level 100 Cleaned

These containers are processed and packaged under a strict registered ISO Quality Management System in the same manner as Level 300 products; however, Level 100 products are not certified or pre-cleaned. Every case of product is labelled with its production number and is custody sealed to ensure reliable chain-of-custody.

TOC Vials

Chromacol offers the only low-level certified vials in the market for Total Organic Carbon testing and sampling.

Major TOC instrument manufacturers recommend these vials when analysis of low levels of TOC requires low background level assurance.

Each lot of vials is tested and certified to contribute less than 10ppb TOC as background or for less stringent applications the 20ppb TOC version. The Certificate of Analysis is included with lot production numbers.



PART NUMBER	NOMINAL VOLUME	OD (mm)	HT (mm)	SCREW (mm)	DESCRIPTION	TOC	PACK SIZE
40-TOCSV-10	40mL	28	96	24	TOC clear vial with cap cover, open top cap	10ppb	72
40-TOCSV-20	40mL	28	96	24	TOC clear vial with cap cover, open top cap	20ppb	72

EPA Type Vials

Key to products ■ Vial ■ Cap ■ Combi Pack ■ Seal

For water samples and for environmental testing 20mL and 40mL EPA pattern vials are available with both injection and solid storage caps. These vials are to the same external size as other EPA pattern vials but in this form are supplied in separate packaging. All are manufactured from neutral borociliate glass Type I, meeting USP and EPA requirements.

PART NUMBER	NOMINAL VOLUME	OD (MM)	HT (MM)	SCREW (MM)	DESCRIPTION	EPA Vials, Caps and Seals	
							PACK SIZE
■ 40-EPASV	40mL	28	96	24	EPA clear vial		100
■ 40-EPASV(A)	40mL	28	96	24	EPA amber vial		100
■ 20-EPASV	20mL	28	57	24	EPA clear vial		100
■ 20-EPASV(A)	20mL	28	57	24	EPA amber vial		100
■ 24-ST3-EPA	-	-	-	-	EPA septa silicone/PTFE		100
■ 24-SC-EPA	-	-	-	-	White EPA screw cap		100

PART NUMBER	NOMINAL VOLUME	OD (MM)	HT (MM)	SCREW (MM)	DESCRIPTION	Pre-assembled EPA vial kits	
							PACK SIZE
■ 40-EPAVCS-PC3	40mL	28	96	24	EPA clear vial kit Level 300 vial/septa/cap		72
■ 40-EPAVCS(A)-PC3	40mL	28	96	24	EPA amber vial kit Level 300 vial/septa/cap		72
■ 40-EPAVCS-PC	40mL	28	96	24	EPA clear vial kit Level 200 vial/septa/cap		72
■ 40-EPAVCS(A)-PC	40mL	28	96	24	EPA amber vial kit Level 200 vial/septa/cap		72
■ 40-EPAVCS	40mL	28	96	24	EPA clear vial kit Level 100 vial/septa/cap		100
■ 40-EPAVCS(A)	40mL	28	96	24	EPA amber vial kit Level 100 vial/septa/cap		100
■ 20-EPAVCS-PC3	20mL	28	57	24	EPA clear vial kit Level 300 vial/septa/cap		72
■ 20-EPAVCS-PC	20mL	28	57	24	EPA clear vial kit Level 200 vial/septa/cap		72
■ 20-EPAVCS	20mL	28	57	24	EPA clear vial kit Level 100 vial/septa/cap		100
■ 20-EPAVCS(A)	20mL	28	57	24	EPA amber vial kit Level 100 vial/septa/cap		100

Scintillation Vials

Chromacal scintillation vials provide the very lowest background count and benefit from very high optical clarity. They have a typical background count of 13CPM or lower, compared to an average 16-65CPM from competitive products. In addition these vials have a noise level of 2.28 and a quenching index factor of 349.



PART NUMBER	DESCRIPTION	Scintillation Vials		BACKGROUND COUNT	QUENCHING INDEX FACTOR	PACK SIZE
		NOISE				
■ 20-EPSVCA	20mL vial with foil lined caps	2.28		13 CPM	349	500
■ 20-EPSVCPE	20mL vial with polythene lined caps	2.28		13 CPM	349	500
■ 20-EPSCA	Foil lined caps	-		-	-	500
■ 20-EPSCPE	Polyethylene lined caps	-		-	-	500

Fraction Collection Tubes

Chromacol products that are capable of dealing with the demands of preparative liquid fraction collection equipment and liquid handling systems.

These fraction collection tubes are manufactured from neutral borosilicate glass giving reproducible recovery of compounds, whether acidic or basic. The base is precision formed to give a stable and secure position in the chosen racks.

The wall thickness is such as to give the robustness required for routine use and collection. The 33 expansion versions are re-usable and may be used in a range of drying, heating and evaporation instruments.

PART NUMBER	NOMINAL VOLUME	OD (mm)	HT (mm)	DESCRIPTION	Disposable	PACK SIZE
FRAC-19150	34mL	19	150	34mL fraction collection tube, rimless, clear, round bottom		125
FRAC-18150	30mL	18	150	27mL fraction collection tube, rimless, clear, round bottom		125
FRAC-16100	15mL	16	100	15mL fraction collection tube, rimless, clear, round bottom		250
FRAC-13100	10mL	13	100	10mL fraction collection tube, rimless, clear, round bottom, may be used in genevac evaporation systems		250
FRAC-1275	6mL	12	75	6mL fraction collection tube, rimless, clear, round bottom, may be used in genevac evaporation systems		250
FRAC-1075	4mL	10	75	4mL fraction collection tube, rimless, clear, round bottom		250
FRAC-0650	0.7mL	6	50	0.7mL fraction collection tube, rimless, clear, round bottom		100

PART NUMBER	NOMINAL VOLUME	OD (mm)	HT (mm)	DESCRIPTION	Re-usable	PACK SIZE
FRACG-19150	30mL	19	150	30mL fraction collection tube, rimless, clear, round bottom, type 33 glass		100
FRACG-16100	15mL	16	100	15mL fraction collection tube, rimless, clear, round bottom, type 33 glass		100
FRACG-13100	10mL	13	100	10mL fraction collection tube, rimless, clear, round bottom, may be used in genevac evaporation systems, type 33 glass		100
FRACG-1275	6mL	12	75	6mL fraction collection tube, rimless, clear, round bottom, may be used in genevac evaporation systems, type 33 glass		100
FRACG-1075	4mL	10	75	4mL fraction collection tube, rimless, clear, round bottom, type 33 glass		100

Vials and Caps

HPLC Technology Vials

For economy with quality these standard 12 x 32mm vials are manufactured from Type I neutral borosilicate glass in clear and amber with standard 11mm crimps and 8-425-screw finish.

The caps are provided pre-assembled with either rubber/PTFE or silicone/PTFE seals for use in most routine GC and HPLC applications.

PART NUMBER	DESCRIPTION	12 x 32 mm Crimp Top Vials	Pack
AGE-A1100AHW	Amber crimp top vial 2mL		100
AGE-A1100HW	Crimp top vial 2mL-clear		100

PART NUMBER	DESCRIPTION	11 mm Crimp Caps	Pack
AGE-A1150	11mm crimp cap rubber/PTFE seal		1000
AGE-A1153	11mm crimp cap silicone/PTFE seal		1000

PART NUMBER	DESCRIPTION	12 x 32 mm Screw Top Vials	Pack
AGE-A1200AH	Amber screw top vial 2mL		100
AGE-A1200H	Screw top vial 2mL-clear		100

PART NUMBER	DESCRIPTION	8mm Screw Caps	Pack
AGE-A1225	Screw cap with red rubber/PTFE liner		1000
AGE-A1227	Screw cap with silicone/PTFE liner		1000