

the SKC Advantage!

- ✓ **Over 40 years of proven performance!** Produced the first commercial sorbent tube
- ✓ **Validation and reliability** SKC tubes are specified and used by OSHA, NIOSH, EPA, and health and safety professionals around the globe for compliance and consulting.
- ✓ **High-quality, low-background sorbents**
- ✓ **Consistent method-specified mesh size and separators** maintain uniform back pressure and breakthrough volumes.
- ✓ **Large batch production** Anasorb CSC Lot 2000 charcoal will be available for many years.
- ✓ **Sorbent background certification available online**
- ✓ **Backup sorbent layer** for breakthrough indication
- ✓ **Technical backup** SKC technical experts provide fast, accurate answers to your questions.
- ✓ **Easy-off "hat" caps on specialty tubes**



For tube holders and accessories see pages 32-33

Sorbent Tube Selection Guide

To select a tube for a specific compound, refer to the SKC Sampling Guide on catalog pages 179-235 or search the online Sampling Guide at www.skcinc.com for methods and required sorbent tubes.

Cat. No.	Sorbent (treatment)	Size (mm) OD x L	Sections	Sorbent (mg)	Ends	Separators	Tube Cover	Qty.
226-01	Anasorb CSC, Coconut Charcoal	6 x 70	2	100/50	GS	F F W	A	50
226-01A	Anasorb CSC, Coconut Charcoal	6 x 70	2	100/50	GS	F F W	A	10
226-01-BULK	Anasorb CSC, Coconut Charcoal	6 x 70	2	100/50	GS	F F W	A	1000
226-01GWS	Anasorb CSC, Coconut Charcoal	6 x 70	2	100/50	GS	W W W	A	50
226-09	Anasorb CSC, Coconut Charcoal	8 x 110	2	400/200	GS	F W W	B	50
226-09-BULK	Anasorb CSC, Coconut Charcoal	8 x 110	2	400/200	GS	F W W	B	1000
226-09-02	Anasorb CSC, Coconut Charcoal	8 x 150	3	350/350/350	GS	W W W W	C	50
226-10	Silica Gel	6 x 70	2	150/75	GS	F W W	A	50
226-10-03	Silica Gel (specially cleaned)	7 x 110	2	400/200	GS	W W G W	B	50
226-10-04	Silica Gel	8 x 110	2	300/150	GS	W W W	B	50
226-10-06*	Silica Gel (sulfuric acid)	6 x 70	2	200/100	GS	W W W	A	50
226-15	Silica Gel	8 x 110	2	520/260	GS	F W W	B	50
226-15GWS	Silica Gel	8 x 110	2	520/260	GS	W W W	B	50
226-16	Anasorb CSC, Coconut Charcoal	10 x 110	2	800/200	GS	F W W	C	50
226-16-02	Anasorb CSC, Coconut Charcoal	10 x 160	2	1800/200	GS	F W W	D	50
226-17-1A	Anasorb C300†	6 x 70	1	200	GS	W W	A	50
226-17-3A	Anasorb C300†	8 x 110	1	500	GS	W W	B	50
226-18	Alumina	8 x 110	2	400/200	GS	F W W	B	50
226-22	Silica Gel	10 x 110	2	1040/260	GS	F W W	C	50
226-23*	XAD-2 (octanoic acid)	6 x 70	2	100/50	GS	W W W	A	50
226-25	[Anasorb CSC, Coconut Charcoal Anasorb CSC, Coconut Charcoal	[8 x 110 8 x 110	[1 1	[400 200	GS	[W W W W	D	50 sets
226-27◇	XAD-2 (2-hydroxymethyl piperidine)	8 x 110	2	450/225	GS	W W W	B	20
226-28	Soda Lime	7 x 110	2	600/200	GS	W W W G W	B	50
226-29*	Anasorb 747 (sulfuric acid)	8 x 110	2	500/250	GS	W W W	B	50
226-30	XAD-2	7 x 70	2	80/40	GS	W W W	B	50
226-3002A	[XAD-2 XAD-2	[10 x 110 10 x 110	[1 1	[600 300	GS	[W W W W	D	10 sets
226-30-03	XAD-2	8 x 110	2	100/30	GS	W W W	B	50
226-30-04	XAD-2	8 x 110	2	100/50	GS	W W W	B	50
226-30-05	XAD-2	8 x 110	2	150/75	GS	W W W	B	50
226-30-06	XAD-2	8 x 110	2	400/200	GS	W W W	B	50
226-30-07◇	XAD-2 (p-anisidine)	8 x 110	2	100/50	GS	W W W	B	20
226-30-08	Anasorb 708	6 x 70	1	100	GS	W W	A	50
226-30-16* (OVS)	XAD-2/Glass Fiber filter	13→8 x 75	2	270/140	GO	F F G T	V	10
226-30-16A* (OVS)	XAD-2/Glass Fiber filter	13→8 x 75	2	270/140	GO	F F G T	V	50
226-30-18*	XAD-2 (naphthylisothiocyanate)	6 x 70	2	80/40	GS	W W W	A	50
226-35	Tenax TA	6 x 70	2	30/15	GS	F W W	A	50
226-35-01*	Tenax TA	6 x 70	2	20/10	GO	W W W	A	50
226-35-02*	[Tenax TA Tenax TA	[6 x 130 6 x 130	[1 1	[35 17	GO	[W W W W	—	50 sets

* Limited shelf-life; contact SKC for more information † Anasorb C300 is equivalent to Hydrar and Carulite.

◇ Limited shelf-life; refrigerator/freezer storage may be required. Contact SKC.

TUBE ENDS: GS: Glass Sealed GO: Glass Open SS: Stainless Steel Open

SEPARATORS: W: Glass Wool G: Glass Fiber Filter F: Foam T: PTFE Ring S: Screen N: Nylon Ring Q: Quartz Filter R: Glass Spacer

For compliance sampling, use tubes as specified in a validated sampling method. It is the user's responsibility, employing a suitable method, to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before use. The user should adjust the sampling parameters for specific conditions and evaluate tubes under conditions of use to ensure that the desired results will be obtained.

Sorbent Tube Selection Guide

To select a tube for a specific compound, refer to the SKC Sampling Guide on catalog pages 179-235 or search the online Sampling Guide at www.skinc.com for methods and required sorbent tubes.

Cat. No.	Sorbent (treatment)	Size (mm) OD x L	Sections	Sorbent (mg)	Ends	Separators	Tube Cover	Qty.
226-35-03	Tenax TA	8 x 110	2	100/50	GS	W W W	B	50
226-35031	Tenax TA	8 x 110	2	100/50	GS	W W W	B	10
226-36	JXC Charcoal	8 x 150	2	630/315	GS	F W W	C	50
226-37	Anasorb CSC, Coconut Charcoal	8 x 110	1	400	GS	F W	D	50 sets
	Anasorb CSC, Coconut Charcoal	8 x 110	1	200		F W		
226-39	Florisil	6 x 70	2	100/50	GS	W W W	A	50
226-39-02	Florisil	8 x 110	2	400/200	GS	W W W	B	50
226-40 [◇]	Oxidizer	7 x 110	1	800	GS	W W	—	10 sets
	Molecular Sieve (triethanolamine) (2 tubes)	7 x 70 (2)	1	400 (2)		W W		
226-40-02*	Molecular Sieve (triethanolamine)	7 x 110	2	400/200	GS	W W W	B	50
226-42*	Silica Gel (sulfuric acid)	8 x 110	2	200/200	GS	W W W	B	50
226-42-02*	Firebrick (gas chrom-R) (sulfuric acid)	7 x 70	1	300	GS	W W	B	50
226-44	Drying Tube	6 x 70	1	250	GS	W W	—	50
226-44-02	Drying Tube	10 x 160	1	900	GS	W W	—	50
226-47-01	Silica Gel	6 x 70	2	100/50	GS	W W W	A	50
226-48	Silica Gel	7 x 110	2	150/150	GS	W W W	B	50
226-49-102	Chromosorb 102	6 x 70	2	66/33	GS	W W W	A	50
226-49-106	Chromosorb 106	6 x 70	2	75/37	GS	W W W	A	50
226-49-108	Anasorb 708	6 x 70	2	75/37	GS	W W W	A	50
226-51	Silica Gel	6 x 70	2	100/50	GS	F W W	A	50
226-53*	Silica Gel (sulfuric acid)	6 x 70	2	150/75	GS	W W W	A	50
226-54 [◇]	XAD-2 (2-hydroxymethyl piperidine)	6 x 70	2	45/23	GS	W W W	A	20
226-55*	Silica Gel (sodium hydroxide)	7 x 70	2	150/75	GS	W W W	B	20
226-56* (OVS)	Tenax TA/Glass Fiber filter	13→8 x 75	2	140/70	GO	F F G T	V	10
226-57* (OVS)	XAD-7/Glass Fiber filter	13→8 x 75	2	200/100	GO	F F G T	V	10
226-57A* (OVS)	XAD-7/Glass Fiber filter	13→8 x 75	2	200/100	GO	F F G T	V	50
226-58* (OVS)	XAD-2/Quartz filter	13→8 x 75	2	270/140	GO	F F Q T	V	10
226-58A* (OVS)	XAD-2/Quartz filter	13→8 x 75	2	270/140	GO	F F Q T	V	50
226-59-01	Porapak-N	6 x 70	2	88/44	GS	W W W	A	50
226-59-03	Porapak-Q	6 x 70	2	78/39	GS	W W W	A	50
226-59-04	Porapak-R	6 x 70	2	70/35	GS	W W W	A	50
226-61*	Silica Gel/Charcoal (charcoal treated with sodium hydroxide)	10 x 210	3	750/1250/250	GS	W W R W	D	50
226-61A*	Silica Gel/Charcoal (charcoal treated with sodium hydroxide)	10 x 210	3	750/1250/250	GS	W R W W	D	20
226-67*	Anasorb CSC, Coconut Charcoal (potassium hydroxide)	6 x 70	2	100/50	GS	W R W W	A	50
226-68 [◇]	JXC Charcoal, Drierite (hydroquinone)	8→6 x 160	3	1600/160/110	GS	W W W W	D	20
226-70A [◇]	Silica Gel (p-methoxyphenol)	8 x 150	2	1200/600	GS	W W W	C	10
226-73*	Anasorb CSC, Coconut Charcoal (t-butylcatechol)	6 x 70	2	100/50	GS	W W W	A	50
226-75	Anasorb 727 [¥]	8 x 110	2	300/150	GS	W W W	B	20
226-80*	Anasorb 747 (potassium hydroxide)	6 x 70	2	100/50	GS	F W W	A	50
226-81A	Anasorb 747	6 x 70	2	140/70	GS	F W W	A	20

* Limited shelf-life; contact SKC for more information ¥ Anasorb 727 is equivalent to Chromosorb 106.

◇ Limited shelf-life; refrigerator/freezer storage may be required. Contact SKC.

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Tech Tips

► The approximate surface areas for 20/40-mesh SKC Anasorb 747 and Anasorb CSC sorbents are as follows:

- Anasorb 747 is 980 m²/gm

- Anasorb CSC is 1200 m²/gm

► **Q:** Is it possible to increase the flow rate of a method to lower the detection limit?

A: NIOSH recommends not exceeding the method-stated maximum flow rate. Instead, sample for a longer period and monitor closely for breakthrough.

Standard of Good Practice

Use inert PTFE tubing to connect two tubes in series or for other applications in which the air sample comes into contact with the tubing before collection onto the sampling media.



For Sample Pumps
see pages 9-21

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Cat. No.	Sorbent (treatment)	Size (mm) OD x L	Sections	Sorbent (mg)	Ends	Separators	Tube Cover	Qty.
226-82	Anasorb 747	8 x 110	1	400	GS	F W	D	20 sets
	Anasorb 747	8 x 110	1	200		F W		
226-83	Anasorb 747	8 x 110	2	400/200	GS	F W W	B	50
226-84	Anasorb 747	10 x 110	2	800/200	GS	F W W	C	20
226-92*	Polyurethane Foam (PUF)	22 x 100	1	76 mm	GO	—	P	ea
226-93	XAD-4	7 x 70	2	80/40	GS	W W W	B	50
226-94	XAD-7	6 x 70	2	60/30	GS	W W W	A	50
226-95	XAD-7	6 x 110	2	100/50	GS	W W W	B	50
226-96*	XAD-7 ([NBD] chloride)	8 x 110	2	100/50	GS	W W W	B	50
226-97	XAD-7 (specially cleaned)	8 x 110	1	175	GS	W G W	—	20 sets
	XAD-7 (2 tubes)	8 x 110 (2)	1	175 (2)		W W		
226-98*	XAD-7 (phosphoric acid)	6 x 70	2	80/40	GS	W W W	A	50
226-99* (OVS)	Silica Gel/Glass Fiber filter	13→8 x 75	2	520/260	GO	F F G T	V	10
226-106A	Chromosorb 102	8 x 110	2	200/100	GS	W W W	B	20
226-107	Chromosorb 102	8 x 110	2	100/50	GS	W W W	B	50
226-110	Chromosorb 106	7 x 70	2	100/50	GS	W W W	B	50
226-111A	Chromosorb 106	10 x 150	2	600/300	GS	W W W	C	10
226-114	Porapak-P	6 x 110	2	100/50	GS	F W W	B	50
226-115	Porapak-Q	6 x 110	2	150/75	GS	W W W	B	50
226-116A*	Porapak-T	6 x 40	1	75	GO	W W	B	10 sets
	Porapak-T	6 x 40	1	25		W W		
226-117 [◇]	XAD-2 (2-hydroxymethyl piperidine)	6 x 110	2	150/75	GS	W W W	B	20
226-118 [◇]	XAD-2 (2-hydroxymethyl piperidine)	6 x 110	2	120/60	GS	W W W	B	20
226-119 [◇]	High-purity Silica Gel with low background (2,4-dinitrophenylhydrazine)	6 x 110	2	300/150	GS	W W W	B	20
226-119A [◇]		6 x 110	2	300/150	GS	W W W	B	100
226-119-7		7 x 110	2	300/150	GS	W W W	B	20
226-120 [◇]	High-purity Silica Gel with low background (2,4-dinitrophenylhydrazine) with built-in ozone scrubber	8 x 115	3	1500/ 300/150	GS	W W W W	D	20

* Limited shelf-life; contact SKC for more information ◇ Limited shelf-life; refrigerator/freezer storage may be required. Contact SKC.

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SKC Formaldehyde SPIKES QC Media

SKC makes laboratory quality control easy with its pre-spiked Formaldehyde SPIKES sorbent tubes. SPIKES are 6 x 110-mm (OD x L) glass-sealed sorbent tubes. Each tube contains two sections (300/150 mg) of high-purity (low-background) silica gel sorbent treated with 2,4-dinitrophenylhydrazine and glass wool separators (W/W). The 300-mg section is spiked with formaldehyde to ± 25% of the stated target level. **Formaldehyde SPIKES are stocked at these commonly requested levels and are sold in packages of 10.**

Spike Level	Cat. No.	Qty.
1.0 µg	227-111	10
3.0 µg	227-112	10
5.0 µg	227-113	10
7.5 µg	227-114	10
10.0 µg	227-115	10

Data Interpretation Formaldehyde

► **LEED Green Buildings**
Formaldehyde Indoor Air
Maximum Concentration:
27 ppb. Maximum concentration in health care facilities is 16.3 ppb.

See formaldehyde sorbent tube
Cat. No. 226-119 or 226-120
at right.

Source: LEED for New Construction Rating
System v4 (U.S. Green Building Council,
<http://www.usgbc.org>)

Sampling Solutions For Green Building/IEQ Testing skcinc.com



For continuous
formaldehyde
measurement
see the Formaldehyde
Multimode Monitor on
page 156

Sorbent Tube Selection Guide

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Cat. No.	Sorbent (treatment)	Size (mm) OD x L	Sections	Sorbent (mg)	Ends	Separators	Tube Cover	Qty.
226-124*	PUF/Tenax TA/PUF	22 x 100	3	3 cm/750 mg/ 3 cm	GO	—	P	ea
226-126*	PUF/Glass Fiber filter	22 x 100	1	76 mm	GO	F S G N	P	ea
226-129*	PUF/XAD-2/PUF	65 x 125	3	50 mm/10 gm/ 25 mm	GO	—	—	ea
226-131*	PUF	65 x 125	1	75 mm	GO	—	—	ea
226-134*	Tenax TA	16 x 125	1	1.6 gm	GO	W W	—	ea
226-142*	Carbon Beads/PTFE Filter (carbon beads treated with potassium hydroxide)	16→8 x 85	2	100/50	GO	W W W T T	—	5
226-143*	PUF/XAD-2/PUF	22 x 100	3	3 cm/1500 mg/ 3 cm	GO	—	P	ea
226-153 [◇]	XAD-2 (di-n-butylamine)	8 x 110	2	400/200	GS	W W W	B	20
226-154	Anasorb 747	6 x 70	1	200	GS	W W	A	50
226-165A [◇]	Silica Gel (mercuric cyanide)	6 x 110	2	300/150	GS	W W W	B	20
226-170	XAD-4	6 x 70	1	120	GS	W W	A	20
226-171*	Anasorb 747/Tenax TA	16 x 125	2	5.2 gm/1.2 gm	GO	W W	—	ea
226-175	XAD-4	8 x 150	2	400/200	GS	W W W	—	20
226-176	Silica Gel (hydrochloric acid)	10 x 150	3	700/150/150	GS	W W W W	C	20
226-177 [◇]	Silica Gel (silver nitrate)/Glass Fiber filter (sodium carbonate/glycerol)	16→8 x 85	2	200/200	GO	T T T W W	—	5
226-178 [◇]	Anasorb 747 (hydrobromic acid)	6 x 70	2	100/50	GS	W W W	A	20
226-182 [◇]	Molecular Sieve (triethanolamine) and oxidizer	10 x 110	3	400/800/400	GS	W W W W	C	50
226-183	Silica Gel (specially washed and baked)/Glass Fiber filter	$\begin{bmatrix} 7 \times 110 \\ 7 \times 110 \end{bmatrix}$	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 600 \\ 600 \end{bmatrix}$	GS	$\begin{bmatrix} W G W \\ W G W \end{bmatrix}$	D	20 sets

* Limited shelf-life; contact SKC for more information

[◇] Limited shelf-life; refrigerator/freezer storage may be required. Contact SKC.

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SKC Quality Bulk Sorbents for Laboratory QA/QC Requirements

- Undergo extensive cleaning procedures to ensure low backgrounds
- Meet stringent specifications for environmental applications

Sorbent	Mesh Size	Amount (grams)	Cat. No.
Anasorb CSC	20/40	100	P2260101
Silica Gel	20/40	100	P22610
Tenax GR	20/35	10	P226124
Tenax TA	35/60	10	P226125
	20/35	10	P226126
Anasorb GCB2	20/40	10	P226127
Anasorb GCB1	20/40	10	P226128
	60/80	10	P226132
Anasorb C300	20/40	100	P226171
Anasorb 747	20/40	100	P226200
XAD-2	20/60	100	P226201
Anasorb JXC	20/40	100	P2263601

Standard of Good Practice

► Maintain the sorbent tube in a vertical position when sampling. This position will prevent the sorbent from falling away from the wall of the glass tube and creating a small channel for the air to pass through without adsorbing onto the sorbent.



For Formaldehyde
SPIKES QC media
see page 46



For Sample Pumps
see pages 9-21



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Standard of Good Practice

Store and prepare sampling media in solvent-free environments.

Tube Breakers

Description	Cat. No.
Tube Breaker , stainless steel, for 6, 7, 8, and 10-mm OD tubes 	226-03-055
Tube Scorer/Breaker , for 6-mm OD tubes; scores and breaks end tips off glass tubes, leaving a clean, smooth opening 	800-01200

Cat. No.	Sorbent (treatment)	Size (mm) OD x L	Sections	Sorbent (mg)	Ends	Separators	Tube Cover	Qty.
226-186 [◇]	Oxidizer	7 x 110	1	800	GS	W W	B	20
226-188 [◇]	Silica Gel (2,4-dinitrophenylhydrazine)	10 x 110	2	800/200	GS	W W W	C	20
226-191	Silica Gel (o-phenylenediamine)	8 x 110	2	520/260	GS	W W W	B	50
226-192	XAD-2/XAD-2/Anasorb CSC	8 x 110	3	50/100/150	GS	W W W W	B	50
226-193-UC	Silica Gel (MTSO)	7 x 110	1	800	GS	W W	B	20
226-196	Anasorb CSC, Coconut Charcoal (t-butylcatechol)	8 x 110	2	400/200	GS	W W W	B	20
226-199-UC	Silica Gel (MTSO)	8 x 110	2	800/200	GS	W G W	B	20
226-330 [‡]	Anasorb GCB2/GCB1/Carbosieve S-III	6 x 115	3	250/150/100	GO	W W W W	N/A	ea
226-339 [‡]	Tenax TA	1/4 x 3-1/2 in	1	100	GO	W W	N/A	ea
226-340 [‡]	Tenax TA	1/4 x 3-1/2 in	1	100	SS	S W W S	N/A	ea
226-341 [‡]	Carbosieve S-III	1/4 x 3-1/2 in	1	100	SS	S W W S	N/A	ea
226-345 [‡]	Tenax GR/Anasorb GCB1	1/4 x 3-1/2 in	2	125/120	GO	W W W	N/A	ea
226-346 [‡]	Anasorb GCB1/Carbosieve S-III	1/4 x 3-1/2 in	2	175/80	GO	W W W	N/A	ea
226-347 [‡]	Anasorb GCB2/GCB1/Carbosieve S-III	1/4 x 3-1/2 in	3	120/125/105	GO	W W W W	N/A	ea
226-348 [‡]	Tenax GR/Anasorb GCB1	1/4 x 3-1/2 in	2	175/150	SS	O S W S O	N/A	ea
226-349 [‡]	Anasorb GCB1/Carbosieve S-III	1/4 x 3-1/2 in	2	280/165	SS	S W S	N/A	ea
226-350 [‡]	Anasorb GCB2/GCB1/Carbosieve S-III	1/4 x 3-1/2 in	3	210/140/165	SS	S W W W S	N/A	ea
226-356 [‡]	Anasorb GCB1	1/4 x 3-1/2 in	1	400	SS	S W W S	N/A	ea
226-357 [‡]	Tenax TA	1/4 x 3-1/2 in	1	250	SS	S W W S	N/A	ea
226-358 [‡]	Chromosorb 106	1/4 x 3-1/2 in	1	350	SS	S W W S	N/A	ea
226-360 [‡]	Tenax TA	1/4 x 3-1/2 in	1	250	GO	W W	N/A	ea
226-363 [‡]	Carbopack X	1/4 x 3-1/2 in	1	400	SS	S W W S	N/A	ea

‡ Tubes are chemically purged before shipping; use within 6 months or recondition, restocking fee applies. ∞ Available unpurged, see page 53
 § Each tube has a flow direction arrow and unique number. ◇ Limited shelf-life; refrigerator/freezer storage may be required. Contact SKC.

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The SKC Peracetic Acid (PAA) — Hydrogen Peroxide Sampling Solution

- Simultaneous sampling of PAA and hydrogen peroxide
- New ultra-clean low-background sorbent tubes for PAA
- Coated filters specified in new OSHA Method 1019 for hydrogen peroxide



While there is no NIOSH or OSHA method for PAA...

- ACGIH has adopted a Threshold Limit Value-Short-term Exposure Limit (TLV-STEL) for PAA of 0.4 ppm.
- NIOSH is considering a new Immediately Dangerous to Life or Health (IDLH) value of 1.7 mg/m³ (0.64 ppm) for PAA at this time.

Sample for PAA with SKC ultra-clean sorbent tubes (see Cat. No. 226-193UC or 226-199UC above) and simultaneously pre-filter and collect hydrogen peroxide with SKC coated quartz filters (see Cat. No. 225-9030 on page 67 – also ideal for OSHA 1019) as specified in the published Institut national de la recherche scientifique (INRS) method. The SKC AirChek TOUCH or AirChek XR5000 sample pump can provide the required 1 L/min flow rate at high back pressure. See pages 10-12 and 16-17.



For Thermal Desorption Tubes purged by SKC or your lab see page 53