

VertiBond™ 5

VertiBond™ 5 Capillary Columns

- 5% Phenyl, 95% Dimethylpolysiloxane
- Intermediate polar stationary phase
- High temperature range
- High efficiency, high inertness columns

VertiBond™ 5 column is contains 5% Phenyl and 95% Dimethylpolysiloxane stationary phase. VertiBond™ 5 has a slightly higher polarity than VertiBond™ 1, results in better selectivity for aromatic compounds, acidic and basic compounds and is generally the best choice when developing a method.

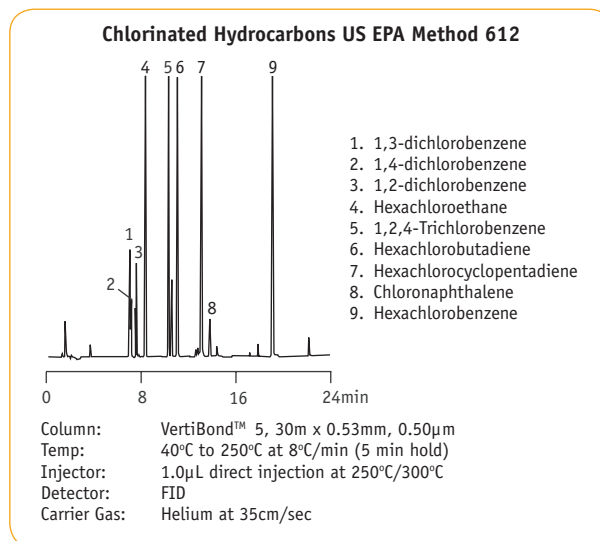
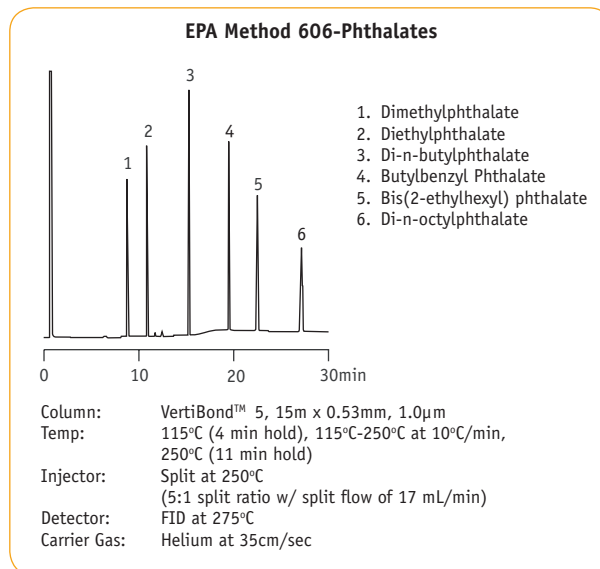
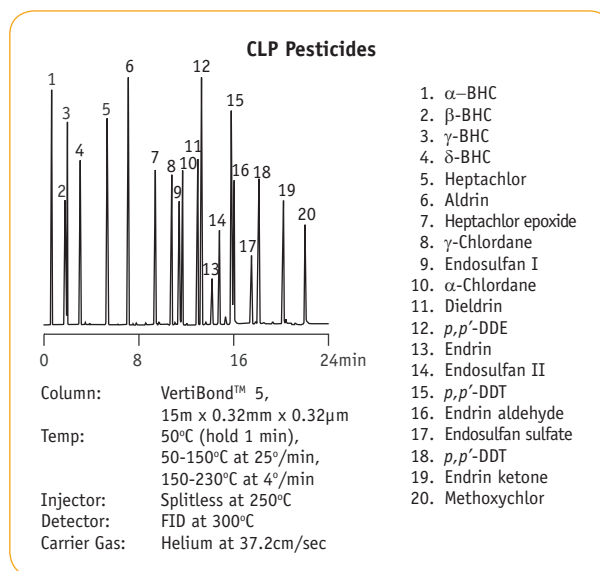
VertiBond™ 5 Specifications	
Phase:	5% Phenyl, 95% Dimethylpolysiloxane
Polarity:	Intermediate polar
USP Designation:	G27, G36
Ideal for:	General Applications

VertiBond™ 5 Specifications	
Restek	Rtx-5, RTX-XTI
Agilent	HP-5, ULTRA-2, DB-5
Supelco	SPB-5, Equity-5, PTE-5
Alltech	AT-5
SGE	BP-5
Varian	CP-SIL8CB
Ohio Valley	OV-5



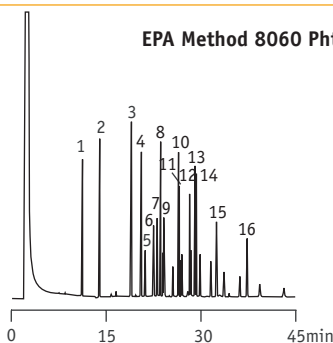
Ordering Information				
Length (m)	I.D. (mm)	Film (μm)	Temp. (°C)	Part No.
10	0.25	0.20	360/370	0402-2040
		0.30	360/370	0402-3060
	0.53	0.25	360/370	0402-5050
		1.20	340/360	0402-5120
15	0.25	2.65	340/360	0402-5180
		5.00	340/360	0402-5210
		0.10	360/370	0402-2001
		0.20	360/370	0402-2041
		0.25	360/370	0402-2051
		0.50	360/370	0402-2091
	0.32	1.00	340/360	0402-2111
		0.10	360/370	0402-3001
		0.25	360/370	0402-3051
		0.30	360/370	0402-3061
		0.50	360/370	0402-3091
		1.00	340/360	0402-3111
0.45	0.42	1.50	340/360	0402-3151
		300/320	0402-4071	
	1.27	300/320	0402-4131	
		0.10	360/370	0402-5001
0.53	0.25	360/370	0402-5051	
		360/370	0402-5091	
	1.00	340/360	0402-5111	
	1.20	340/360	0402-5121	
	1.50	340/360	0402-5151	
	3.00	340/360	0402-5191	
	5.00	340/360	0402-5211	

Ordering Information				
Length (m)	I.D. (mm)	Film (µm)	Temp. (°C)	Part No.
25	0.25	0.20	360/370	0402-2042
	0.32	0.30	360/370	0402-3062
	0.53	1.00	340/360	0402-5112
30	0.25	1.20	340/360	0402-5122
		0.10	360/370	0402-2003
	0.25	360/370	0402-2053	
	0.50	360/370	0402-2093	
	1.00	340/360	0402-2113	
	0.32	0.10	360/370	0402-3003
	0.25	360/370	0402-3053	
	0.30	360/370	0402-3063	
	0.50	360/370	0402-3093	
	1.00	340/360	0402-3113	
0.45	1.50	340/360	0402-3153	
	0.42	300/320	0402-4073	
	1.27	300/320	0402-4133	
	0.53	0.10	360/370	0402-5003
	0.25	360/370	0402-5053	
50	0.25	0.10	360/370	0402-2004
		0.20	360/370	0402-2044
	0.25	360/370	0402-2054	
	0.32	0.30	360/370	0402-3064
	0.53	1.00	340/360	0402-5114
	1.20	340/360	0402-5124	
	0.25	0.10	360/370	0402-2005
	0.20	360/370	0402-2045	
	0.25	360/370	0402-2055	
	0.50	360/370	0402-2095	
60	0.32	0.10	360/370	0402-3005
		0.25	360/370	0402-3055
	0.30	360/370	0402-3065	
	0.50	360/370	0402-3095	
	1.00	340/360	0402-3115	
	1.50	340/360	0402-3155	



Ordering Information					
Length (m)	I.D. (mm)	Film (µm)	Temp. (°C)	Part No.	
60	0.53	0.10	360/370	0402-5005	
		0.25	360/370	0402-5055	
		0.50	360/370	0402-5095	
		1.00	340/360	0402-5115	
		1.20	340/360	0402-5125	
		1.50	340/360	0402-5155	
		3.00	340/360	0402-5195	
		5.00	340/360	0402-5215	
		105	0.25	0.10	360/370
0.25	360/370			0402-2057	
0.50	360/370			0402-2097	
1.00	340/360			0402-2117	
0.32	0.10			360/370	0402-3007
	0.25			360/370	0402-3057
	0.50			360/370	0402-3097
1.00	340/360			0402-3117	
	1.50			340/360	0402-3157
	0.53	1.20	340/360	0402-5127	
5.00		340/360	0402-5217		

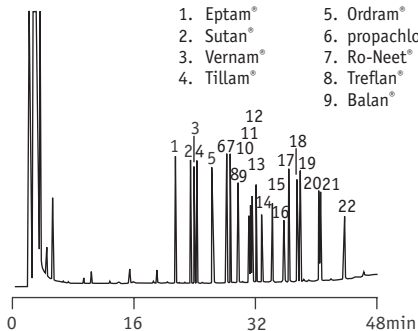
EPA Method 8060 Phthalate Esters



1. dimethyl phthalate
2. diethyl phthalate
3. diisobutyl phthalate
4. di-*n*-butyl phthalate
5. bis(methoxyethyl) phthalate
6. bis(4-methyl,2-pentyl) phthalate
7. bis(ethoxyethyl) phthalate
8. di-*n*-amyl phthalate
9. hexyl-2-ethylhexyl phthalate
10. di-*n*-hexyl phthalate
11. butylbenzyl phthalate
12. bis(2-*n*-butoxyethyl) phthalate
13. dicyclohexyl phthalate
14. bis(2-ethylhexyl) phthalate
15. di-*n*-octyl phthalate
16. di-*n*-nonyl phthalate

Column: VertiBond™ 5, 30m x 0.53mm, 0.50µm
 Temp: 60°C to 290°C (1 min hold)
 Injector: 0.5µL direct injection at 290°
 Detector: FID
 Carrier gas: Helium at 20cm/sec

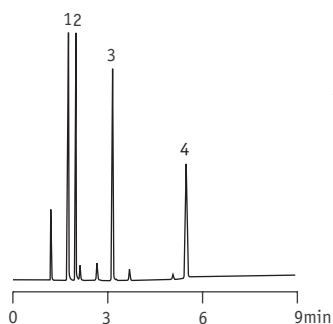
Nitrogen-Containing Herbicides



1. Eptam®
2. Sutan®
3. Vernam®
4. Tillam®
5. Ordram®
6. propachlor
7. Ro-Neet®
8. Treflan®
9. Balan®
10. simazine
11. atrazine
12. propazine
13. Tolban®
14. terbacil
15. Sencor®
16. bromacil
17. Dual®
18. Parrlan®
19. Prowl®
20. oxadiazon
21. Goal®
22. hexazinone

Column: VertiBond™ 5, 30m x 0.53mm, 0.50µm
 Temp: 60°C (1 min hold) to 290°C at 15°C/min (hold 5min)
 Injector: 2.0µL direct injection at 290°
 Detector: FID
 Carrier gas: Helium at 40cm/sec

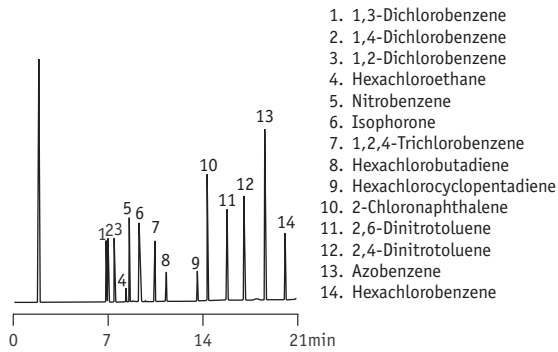
EPA Method 551: Chlorinated Disinfection



1. Trichloroacetonitrile
2. Dichloroacetonitrile
3. Bromochloroacetonitrile
4. Dibromoacetonitrile

Column: VertiBond™ 5, 30m x 0.32mm, 0.25µm
 Temp: 55°C (2 min hold) to 75°C at 5°C/min
 Detector: NPD
 Carrier Gas: Helium at 2.2mL/min

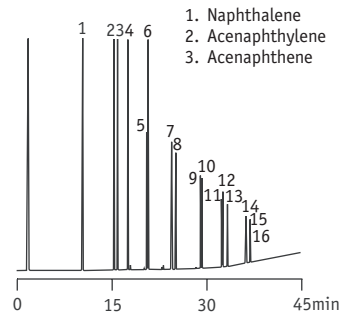
Base/Neutral Mix



1. 1,3-Dichlorobenzene
2. 1,4-Dichlorobenzene
3. 1,2-Dichlorobenzene
4. Hexachloroethane
5. Nitrobenzene
6. Isophorone
7. 1,2,4-Trichlorobenzene
8. Hexachlorobutadiene
9. Hexachlorocyclopentadiene
10. 2-Chloronaphthalene
11. 2,6-Dinitrotoluene
12. 2,4-Dinitrotoluene
13. Azobenzene
14. Hexachlorobenzene

Column: VertiBond™ 5, 30m x 0.32mm, 0.25µm
 Temp: 60°C (2min hold) to 205°C at 8°C/min
 Detector: FID
 Carrier Gas: Helium at 2.2mL/min

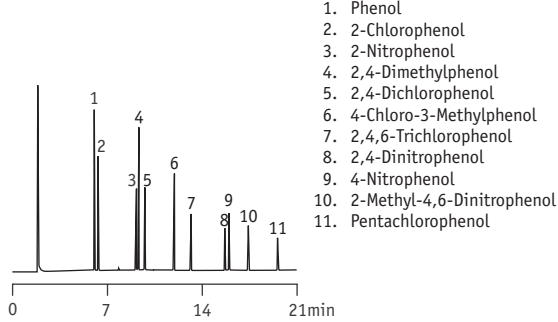
Polynuclear Aromatic Hydrocarbons



1. Naphthalene
2. Acenaphthylene
3. Acenaphthene
4. Fluorene
5. Phenanthrene
6. Anthracene
7. Fluoranthene
8. Pyrene
9. Benz[a]anthracene
10. Chrysene
11. Benzo[b]fluoranthene
12. Benzo[k]fluoranthene
13. Benzo[a]pyrene
14. Indeno[1,2,3-c,d]pyrene
15. Dibenzo[a,h]anthracene
16. Benzo[g,h,i]perylene

Column: VertiBond™ 5, 30m x 0.32mm, 0.25µm
 Temp: 60°C (2min hold) to 315°C at 8°C/min
 Detector: FID
 Carrier Gas: Helium at 1.6mL/min

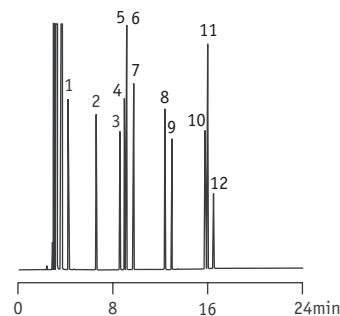
Phenols



1. Phenol
2. 2-Chlorophenol
3. 2-Nitrophenol
4. 2,4-Dimethylphenol
5. 2,4-Dichlorophenol
6. 4-Chloro-3-Methylphenol
7. 2,4,6-Trichlorophenol
8. 2,4-Dinitrophenol
9. 4-Nitrophenol
10. 2-Methyl-4,6-Dinitrophenol
11. Pentachlorophenol

Column: VertiBond™ 5, 30m x 0.25mm, 0.25µm
 Temp: 70°C (2 min hold) to 230°C at 8°C/min
 Detector: FID
 Carrier Gas: Helium at 0.8mL/min

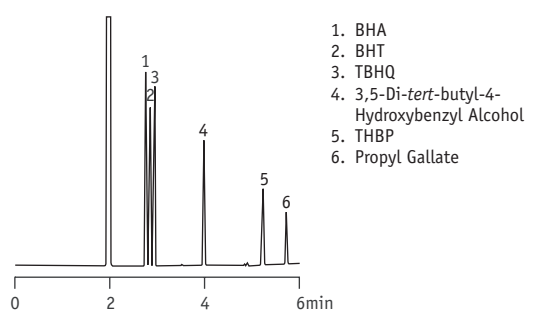
Aromatic Solvents



1. Benzene
2. Toluene
3. Chlorobenzene
4. Ethylbenzene
5. *m*-Xylene
6. *p*-Xylene
7. *o*-Xylene
8. 1,4-Dichlorobenzene
9. 1,2-Dichlorobenzene
10. 1,2,4-Trichlorobenzene
11. Naphthalene
12. 1,2,3-Trichlorobenzene

Column: VertiBond™ 5, 30m x 0.32mm, 1.00µm
 Temp: 60°C (4min hold) to 200°C at 10°C/min
 Detector: FID
 Carrier Gas: Helium at 1.3mL/min (24cm/sec)

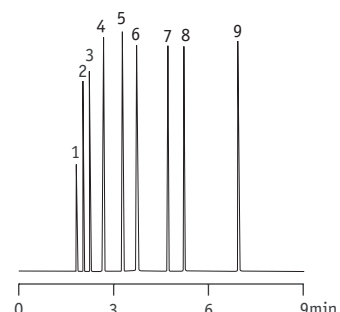
Phenolic Antioxidants



1. BHA
2. BHT
3. TBHQ
4. 3,5-Di-*tert*-butyl-4-Hydroxybenzyl Alcohol
5. THBP
6. Propyl Gallate

Column: VertiBond™ 5, 30m x 0.25 mm, 0.25µm
 Temp: 220°C (3min hold) to 265°C at 15°C/min
 Detector: FID
 Carrier Gas: Helium at 0.74mL/min

C1-C6 Alcohols



1. Methanol
2. Ethanol
3. 2-Propanol
4. 1-Propanol
5. 2-Methyl-1-propanol
6. 1-Butanol
7. 3-Methyl-1-butanol
8. 1-Pentanol
9. 1-Hexanol

Column: VertiBond™ 5, 30m x 0.32mm, 1.00µm
 Temp: 40°C to 120°C at 10°C/min
 Detector: FID at 275°C
 Carrier Gas: Helium at 1.2mL/min (25cm/sec)