

## VertiBond™ 1701 Capillary Columns

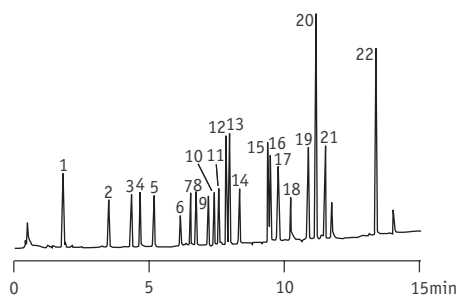
- 14% Cyanopropylphenyl, 86% Dimethylpolysiloxane
- Intermediate polar stationary phase
- High temperature range
- High efficiency, high inertness columns

VertiBond™ 1701 column contains 14% Cyanopropylphenyl, 86% Dimethylpolysiloxane stationary phases. This intermediate polarity phase offers high selectivity for environmental, food and beverage, and pharmaceutical applications.

VertiBond™ 1701 Specifications	
Phase:	14% Cyanopropylphenyl, 86% Dimethylpolysiloxane
Polarity:	Intermediate Polar
USP Designation:	n/a
Ideal for:	Pesticides, PCBs, Drugs, Herbicides, and TMS Sugars

VertiBond™ 1701 Specifications	
Restek	Rtx-1701
Agilent	HP-1701, DB-1701
Supelco	SPB-1701
Alltech	AT-1701
SGE	BP-10
Varian	CP-SIL19CB3
Ohio Valley	OV-1701
Phenomenex	ZB-1701

### Organochlorine Pesticides



Column: VertiBond™ 1701,  
30 m x 0.53 mm, 0.25µm  
Temp: 150°C (hold 5 min)  
to 275°C  
at 4°C/min (hold 5 min)  
Injector: 1µL direct injection  
at 200°C/275°C  
Detector: ECD  
Carrier Gas: Helium 40cm/sec

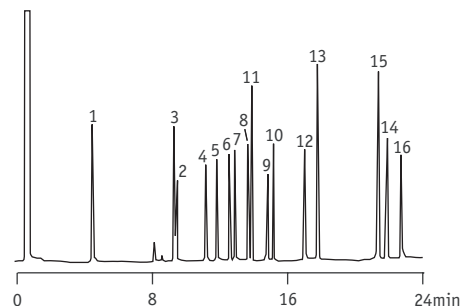
1. 2,4,5,6-Tetrachloro-*m*-xylene (surrogate)
2. α-BHC
3. γ-BHC
4. Heptachlor
5. Aldrin
6. β-BHC
7. δ-BHC
8. Heptachlorepoxide
9. Endosulfan I
10. γ-Chlordane
11. α-Chlordane
12. 4,4'-DDE
13. Dieldrin
14. Endrin
15. 4,4'-DDD
16. Endosulfan II
17. 4,4'-DDT
18. Endrin aldehyde
19. Endosulfan sulfate
20. Methoxychlor
21. Endrin ketone
22. Decachlorobiphenyl (Surrogate)

### Ordering Information

Length (m)	I.D. (mm)	Film (µm)	Temp. (°C)	Part No.		
10	0.25	0.20	280/300	0412-2040		
		1.20	260/280	0412-5120		
		0.10	280/300	0412-2001		
			280/300	0412-2021		
15	0.25	0.20	280/300	0412-2041		
		0.25	280/300	0412-2051		
		0.50	280/300	0412-2091		
		1.00	280/300	0412-2111		
			280/300	0412-3001		
			280/300	0412-3021		
		0.32	0.10	280/300	0412-3051	
				280/300	0412-3091	
				280/300	0412-3111	
				260/280	0412-5001	
				260/280	0412-5051	
				260/280	0412-5091	
25	0.25	1.00	260/280	0412-5111		
		1.20	260/280	0412-5121		
		1.50	260/280	0412-5151		
		0.15	280/300	0412-2022		
			280/300	0412-2042		
			280/300	0412-3062		
30	0.25	0.30	280/300	0412-3062		
		1.20	260/280	0412-5122		
		0.10	280/300	0412-2003		
			280/300	0412-2023		
			280/300	0412-2053		
		0.50	0.25	280/300	0412-2093	
				280/300	0412-2113	
				280/300	0412-2133	
				1.00	280/300	0412-3003
					280/300	0412-3023
					280/300	0412-3053
		0.32	0.10	280/300	0412-3003	
280/300	0412-3023					
280/300	0412-3053					
0.50	0.25	280/300	0412-3093			

Ordering Information				
Length (m)	I.D. (mm)	Film (µm)	Temp. (°C)	Part No.
30	0.32	1.00	280/300	0412-3113
		0.53	260/280	0412-5003
	0.25	260/280	0412-5053	
		260/280	0412-5093	
		260/280	0412-5113	
		260/280	0412-5123	
50	0.25	0.20	280/300	0412-2044
	0.32	0.30	280/300	0412-3064
60	0.25	0.10	280/300	0412-2005
		0.15	280/300	0412-2025
	0.25	280/300	0412-2055	
		280/300	0412-2095	
		280/300	0412-2115	
		280/300	0412-3005	
		280/300	0412-3025	
		280/300	0412-3055	
	0.53	0.25	280/300	0412-3095
		1.00	280/300	0412-3115
		0.10	260/280	0412-5005
		0.25	260/280	0412-5055
	0.50	260/280	0412-5095	
	1.00	260/280	0412-5115	
	1.50	260/280	0412-5155	

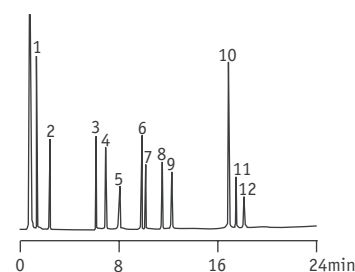
## Underivatized Barbiturates



1. Ethosuximide
2. Barbitol
3. Methyprylon
4. Aprobarbital
5. Butalbital
6. Amobarbital
7. Pentobarbital
8. Secobarbital
9. Meprobamate
10. Carisoprodal
11. Glutethimide
12. Phenobarbital
13. Methaqualone
14. Primidone
15. Carbamazepine
16. Diphenylhydantoin

Column: VertiBond™ 1701, 15m x 0.53mm, 0.50µm  
 Temp: 150°C (hold 5 min) to 275°C at 4°C/min (hold 5 min)  
 Injector: 1µL splitless injection, at 250°C/275°C (0.5 min hold)  
 Detector: FID  
 Carrier Gas: Helium 40cm/sec set at 100°C

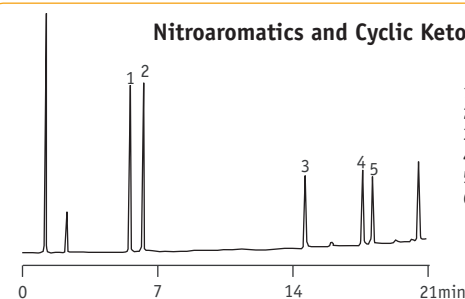
## Underivatized Antiepileptics



1. Valproic acid
2. Ethosuximide
3. Methsuximide
4. Phensuximide
5. Desmethyl methsuximide
6. Mephentoin
7. Ethotoin
8. PEMA
9. Phenobarbital
10. Primidone
11. Carbamazepine
12. Diphenylhydantoin

Column: VertiBond™ 1701, 15m x 0.32mm, 0.50µm  
 Temp: 150°C to 280°C at 7°C/min (hold 5min)  
 Injector: 1µL split injection at 250°C/270°C (Split ratio: 30:1)  
 Detector: FID  
 Carrier Gas: Helium 30cm/sec set at 150°C

## Nitroaromatics and Cyclic Ketones



1. Isophorone
2. Nitrobenzene
3. 1,4-Naphthoquinone
4. 2,6-Dinitrotoluene
5. 1,3-Dinitrobenzene
6. 2,4-Dinitrotoluene

Column: VertiBond™ 1701, 30m x 0.53mm, 1.0µm  
 Temp: 120°C to 200°C at 3°C/min (hold 2min)  
 Injector: 1µL split injection (Split ratio: 30:1)  
 Detector: FID  
 Carrier Gas: Helium at 44cm/sec