

# VertiBond™ AqWAX

## VertiBond™ AqWAX Capillary Columns

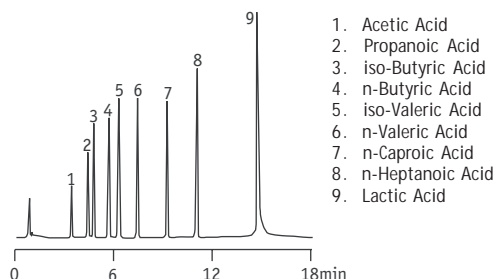
- Nitroterephthalic acid-modified Polyethylene glycol (PEG)
- High polar stationary phase
- High temperature to 250°C
- High efficiency, high inertness columns

VertiBond™ AqWAX column contains Nitroterephthalic acid-modified Polyethylene Glycol stationary phase. This modified high polar phase resists damage by water-based samples and ideal for the analysis of acidic compounds, such as phenols, and derivatized or un-derivatized free fatty acids.

VertiBond™ AqWAX Specifications	
Phase:	Nitroterephthalic acid-modified Polyethylene glycol (PEG)
Polarity:	High Polar
USP Designation:	G25, G35
Ideal for:	Free Fatty Acids

VertiBond™ AqWAX Equivalent Phase	
Restek	Stabilwax-DA
Agilent	HP-FFAP, DB-FFAP, DB-WAXetr
Supelco	SP-1000, Nukol
Alltech	AT-1000, AT-AquaWax
SGE	BP21
Varian	CP-WAX58CB
Ohio Valley	OV-351
Phenomenex	ZB-FFAP

Organic Acids in Water



Column: VertiBond™ AqWAX, 30m x 0.53mm, 0.5µm  
 Temp: 85°C-180°C at 6°C/min  
 Injector: On-Column  
 Detector: FID

### Ordering Information

Length (m)	I.D. (mm)	Film (µm)	Temp. (°C)	Part No.	
10	0.25	0.20	260/275	0417-2040	
		0.30	260/275	0417-3060	
	0.53	1.20	260/275	0417-5120	
15	0.25	0.10	260/275	0417-2001	
		0.20	260/275	0417-2041	
		0.25	260/275	0417-2051	
	0.32	0.10	260/275	0417-3001	
		0.25	260/275	0417-3051	
		0.30	260/275	0417-3061	
	0.50	0.25	260/275	0417-3091	
		1.00	260/275	0417-3111	
		0.53	0.10	260/275	0417-5001
25	0.25	0.25	260/275	0417-5051	
		0.50	260/275	0417-5091	
		1.00	260/275	0417-5111	
	1.20	260/275	0417-5121		
		260/275	0417-5151		
		260/275	0417-5151		
	0.25	0.20	260/275	0417-2042	
		0.32	0.30	260/275	0417-3062
		0.53	1.00	260/275	0417-5112
30	0.25	1.20	260/275	0417-5122	
		0.10	260/275	0417-2003	
		0.20	260/275	0417-2043	
	0.25	260/275	0417-2053		
		0.50	260/275	0417-2093	
		0.32	0.10	260/275	0417-3003
	0.25	260/275	0417-3053		
		0.50	260/275	0417-3093	
		1.00	260/275	0417-3113	
0.53	0.10	260/275	0417-5003		
	0.25	260/275	0417-5053		

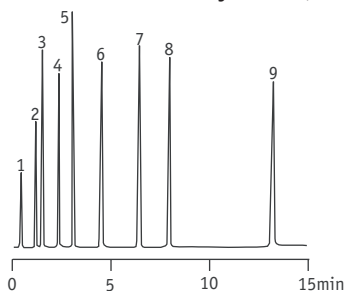
# VertiBond™ AqWAX

## Ordering Information

Length (m)	I.D. (mm)	Film (µm)	Temp. (°C)	Part No.	
30	0.53	0.50	260/275	0417-5093	
		1.00	260/275	0417-5113	
		1.20	260/275	0417-5123	
		1.50	260/275	0417-5153	
		2.00	260/275	0417-5233	
50	0.25	0.20	260/275	0417-2044	
		0.32	260/275	0417-3064	
60	0.25	0.10	260/275	0417-2005	
		0.20	260/275	0417-2045	
		0.25	260/275	0417-2055	
		0.50	260/275	0417-2095	
		0.32	0.10	260/275	0417-3005
			0.25	260/275	0417-3055
		0.30	260/275	0417-3065	
		0.50	260/275	0417-3095	
		1.00	260/275	0417-3115	
		0.53	0.10	260/275	0417-5005
0.25	260/275		0417-5055		
0.50	260/275		0417-5095		
		1.00	260/275	0417-5115	
		1.50	260/275	0417-5155	



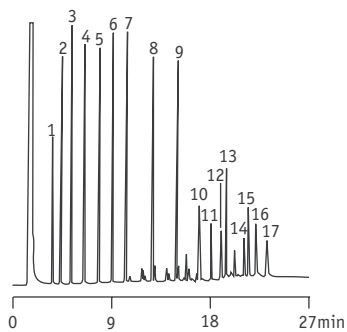
## Fatty Acids (Free)



1. Acetic acid
2. Propionic acid
3. Isobutyric acid
4. n-Butyric acid
5. Isovaleric acid
6. n-Valeric acid
7. Isocaproic acid
8. Caproic acid
9. Heptanoic acid

Column: VertiBond™ AqWAX, 30m x 0.25mm, 0.25µm  
 Temp: 145°C  
 Injector: 1µL split injection at 250°C (split ratio 50:1)  
 Detector: FID  
 Carrier Gas: Hydrogen 40cm/sec

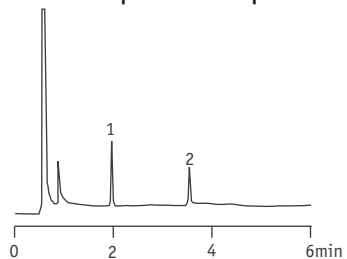
## Organic Acids Free Fatty Acids



1. C2:0-acetic acid
2. C3:0-propionic acid
3. C4:0-butyric acid
4. C5:0-valeric acid
5. C6:0-caproic acid
6. C7:0-enanthic acid
7. C8:0-capric acid
8. C10:0-capric acid
9. C12:0-lauric acid
10. C14:0-myristic acid
11. C15:0-pentadecanoic acid
12. C16:0-palmitic acid
13. C16:1-palmitoleic acid
14. C17:0-stearic acid
15. C18:1-oleic acid
16. C18:2-linoleic acid
17. C18:3-linoleic acid

Column: VertiBond™ AqWAX, 30m x 0.53mm, 0.25µm  
 Temp: 100°C (2 min) - 250°C at 8°C/min  
 Injector: 0.5µL direct injection of a 5mg/mL standard at 280°C  
 Detector: FID  
 Carrier Gas: Helium 40cm/sec (flow rate: 5.2cc/min)

## Aspirin and Ibuprofen in Methanol



1. Aspirin
2. Ibuprofen

Column: VertiBond™ AqWAX, 30m x 0.25mm, 0.25µm  
 Temp: 180°C  
 Injector: Split 1:50, 250°C  
 Detector: FID 300°C  
 Carrier Gas: Hydrogen at 24cm/sec, measured at 180°C