

# Avantor® Prevail

## for analysis of highly polar and non-polar analytes

Avantor® Prevail range exhibits long lifetimes in both highly aqueous and highly organic mobile phases. The stability of these phases is such that a single column can be switched between highly aqueous, for analysis of highly polar analytes, and highly organic, for strong retention of hydrophobic analytes.

### Key Features

- Stable from highly organic to highly aqueous
- Speciality phases for specific applications
- Excellent sensitivity with microbore and ELSD applications

### AVANTOR® PREVAIL PHASE SPECIFICATIONS

Phase	Particle size (µm)	Properties	Applications	USP Code
C18	3, 5	Stable in highly aqueous to highly organic mobile phases	Flexibility to switch between varied mobile phase conditions to suit a variety of applications. Excellent sensitivity for microbore applications	L1
C18-Select	3, 5	Stable in highly aqueous to highly organic mobile phases	Suitable for applications where greater retention than the Prevail C18 is required	L1
C8	5	Stable C8 phase	Use for highly hydrophobic compounds that retain too strongly on C18	L7
Phenyl	5	Lowest hydrophobic capacity	Selective for aromatic compounds in a variety of mobile phase conditions	L11
Cyano	3, 5	General purpose cyano suitable for normal or reversed-phase use	Rugged normal phase applications	L10
Amino	3, 5	Stable in highly aqueous to highly organic mobile phases	Use for carbohydrates or as a weak anion exchanger	L8
Amide	5	Polar embedded phase	Suitable for use with highly aqueous mobile phases	–
Silica	3, 5	Highly polar phase	General purpose normal phase applications	L3
Organic acid	3, 5	Highly efficient silica-based, acid-stable phase	Separates common organic acids with unsurpassed resolution, speed and sensitivity. Lower cost than polymeric columns	–

### Prevail Organic Acid

Prevail Organic Acid columns are silica-based for maximum efficiency and high resolution. They can separate common organic acids with a combination of speed, sensitivity, and simplicity. A simple acidic phosphate buffer and a Prevail OA column at ambient temperature will separate 11 short chain organic acids in less than 6 minutes. The retention profile can be readily adjusted by changing the mobile phase pH.

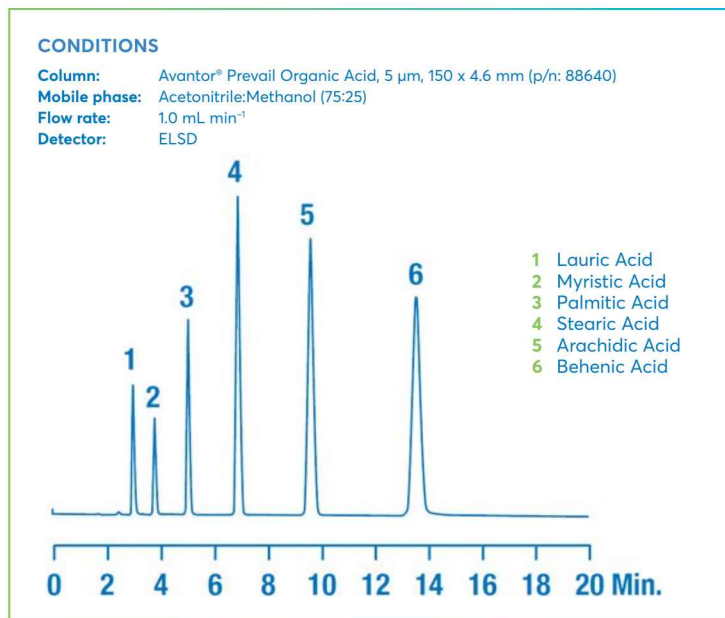


FIGURE 6: Underivatized Fatty Acids.

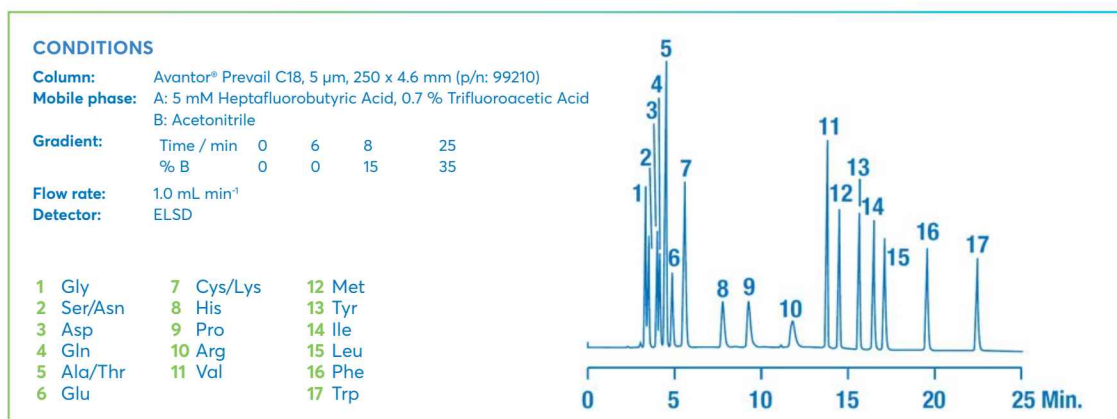


FIGURE 7: Amino Acids without Derivatization.

## ORDERING INFORMATION

### ANALYTICAL COLUMNS - 3 µm

Length (mm)	20	50		100		150			Guard cartridges (3/pk) <sup>1</sup>
i.d. (mm)	2.1	2.1	4.6	2.1	4.6	2.1	3.0	4.6	For 2.1
C18	43827	43818	43829	43871	99202	99200	99322	99204	96683/N
C18-Select	–	99309	–	99312	99302	99313	99315	99303	96691/N
Cyano	–	–	–	–	–	99243	–	99247	–
Amino	–	–	–	–	99257	99255	–	99259	–
Silica	–	–	–	43805	–	–	99341	99271	–
Organic acid	–	–	–	88648	–	–	–	88655	–

<sup>1</sup> To be used with All-Guard cartridge holder (80101/N) and column coupler (HI-081).

### ROCKET COLUMNS - 3 µm

Length (mm)	33	53
i.d. (mm)	7	7
C18	99280	99279
C18-Select	99304	99305
Organic Acid	–	50755

### ANALYTICAL COLUMNS - 5 µm

Length (mm)	50	100	125	150			250		Guard cartridges (3/pk) <sup>1</sup>	
i.d. (mm)	4.6	4.6	4.6	2.1	3.0	4.6	3.0	4.6	For 2.1	For 3.0-4.6
C18	43903	–	PRE-5C18-125D	99206	99320	99208	99321	99210	96682/N	99286/N
C18-Select	–	–	–	–	99316	99300	99317	99301	96690/N	99119/N
C8	–	–	–	99218	–	99224	5131428	99229	99128/N	99287/N
Phenyl	–	–	–	99237	99326	99239	99327	99241	99130/N	99288/N
Cyano	–	–	–	–	99329	99251	–	99253	99131/N	99353/N
Amino	–	–	–	99261	–	99263	–	99265	99135/N	99290/N
Amide	–	PRE-5AM-100D	–	–	–	88660	–	88665	–	–
Silica	–	–	–	99273	99339	99275	99340	99277	99133/N	99354/N
Organic acid	–	–	–	–	–	88640	PRE-5OA-250DT	88645	–	96429/N

<sup>1</sup> To be used with All-Guard cartridge holder (80101/N) and column coupler for All-Guard cartridges (HI-081).

### COLUMNS COMPATIBLE WITH WATERS INSTRUMENTS - 5 µm

Length (mm)	150	250	Guard cartridges (3/pk) <sup>1</sup>
i.d. (mm)	4.6	4.6	For 3.0-4.6
C18	99209	99211	99286/N
Organic Acid	88740	88745	96429/N

<sup>1</sup> To be used with All-Guard cartridge holder (80101/N) and column coupler for All-Guard cartridges (Waters type column port: HI-881).

### SEMI-PREPARATIVE AND PREPARATIVE COLUMNS - 5 µm

Length (mm)	150	250		Guard column (mm)
i.d. (mm)	22	10	22	33 x 7
C18	99296	99294	99297	970211