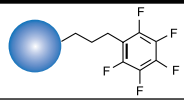


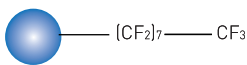
Ultisil™ Fluorinated Phase(PFP&F-C8)

Ultisil™ Fluorinated Phase has high selectivity and increased retention toward closely related compounds, including both aromatic fluorinated compounds and other nonaromatic halogenated compounds. It can be used in reversed phase and provides an alternative and complementary separation to that performed on C8 or C18 columns for many analytes. Fluorinated phase has better separation for ionic and polar compounds than do alkyl phases. Fluorinated phase can provide different elution orders, leading to enhanced selectivity for compounds that are difficult to separate.

Ultisil™ PFP

Structural Formula	
pH Range	1.5-10.0
Particle Size	3 μm, 5 μm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	12(120 Å)
USP List	L11
Endcapped	Yes

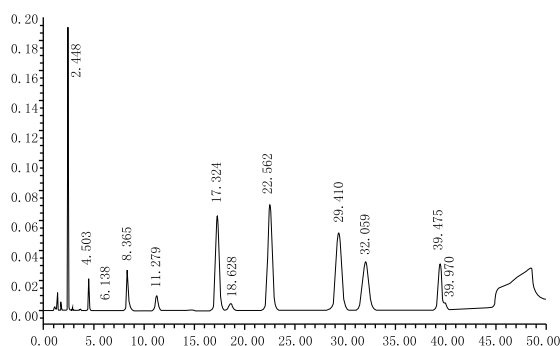
Ultisil™ F-C8

Structural Formula	
pH Range	1.5-10.0
Particle Size	3 μm, 5 μm
Surface Area(m ² /g)	320(120 Å)
Carbon Loading(%)	12(120 Å)
USP List	L7
Endcapped	Yes

Ultisil™ PFP

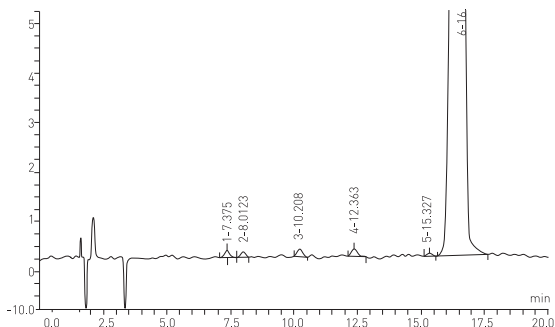
Ultisil™ PF-Phenyl is a phase primarily used in the separation of molecules bearing fluorine atoms, but may also be in the separation of non-fluorinated compounds such as Taxol and its derivatives. Because of its phenyl ring, it has a higher selectivity for aromatic molecules than for other alkyl-fluorinated phases. Ultisil™ PF-Phenyl can separate nitro-benzene isomers (para vs. ortho), which cannot be separated by conventional phenyl phase.

Analysis of Taxol



Column:	Ultisil™ PFP, 4.6 ×250 mm, 5 μm																		
Mobile Phase:	A: acetonitrile B:water																		
Gradient Program:	<table border="1"> <thead> <tr> <th>Time(min)</th> <th>A(%)</th> <th>B(%)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>35</td> <td>65</td> </tr> <tr> <td>35</td> <td>35</td> <td>65</td> </tr> <tr> <td>60</td> <td>80</td> <td>20</td> </tr> <tr> <td>70</td> <td>85</td> <td>15</td> </tr> <tr> <td>80</td> <td>85</td> <td>65</td> </tr> </tbody> </table>	Time(min)	A(%)	B(%)	0	35	65	35	35	65	60	80	20	70	85	15	80	85	65
Time(min)	A(%)	B(%)																	
0	35	65																	
35	35	65																	
60	80	20																	
70	85	15																	
80	85	65																	
Flow Rate:	2.6 mL/min																		
Injection Volume:	227 nm																		
Temperature:	30°C																		
Injection Volume:	10 μL																		

Parecoxib Sodium

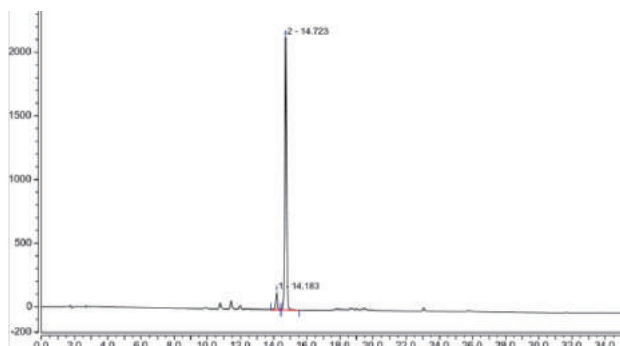


Column:	Ultisil™ PFP, 4.6 ×250 mm, 5 μm												
Mobile Phase:	A: 0.1% TFA water solution B: methanol												
Gradient Program:	<table border="1"> <thead> <tr> <th>Time(min)</th> <th>A(%)</th> <th>B(%)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>55</td> <td>45</td> </tr> <tr> <td>20</td> <td>45</td> <td>55</td> </tr> <tr> <td>40</td> <td>10</td> <td>90</td> </tr> </tbody> </table>	Time(min)	A(%)	B(%)	0	55	45	20	45	55	40	10	90
Time(min)	A(%)	B(%)											
0	55	45											
20	45	55											
40	10	90											
Flow Rate:	1.0 mL/min												
Injection Volume:	225 nm												
Temperature:	40°C												
Injection Volume:	10 μL												

Ultisil™ F-C8

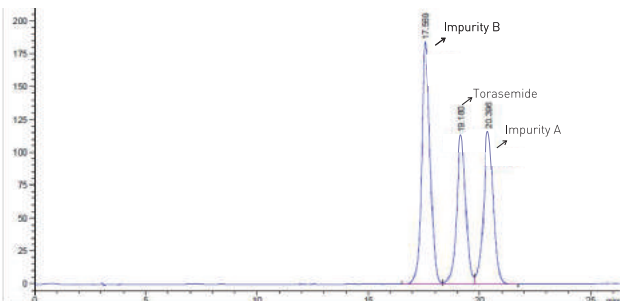
Ultisil™ F-C8 column has high selectivity and increased retention toward halogenated aromatic and alkyl compounds, but different from octal alkyl phase.

Dolasetron Mesylate



Column:	Ultisil™ F-C8, 4.6 ×250 mm, 5 μm																		
Mobile Phase:	A: diammonium hydrogen phosphate/ acetonitrile=1000/53 B: diammonium hydrogen phosphate/ acetonitrile=295/795																		
Gradient Program:	<table border="1"> <thead> <tr> <th>Time(min)</th> <th>A(%)</th> <th>B(%)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>100</td> <td>0</td> </tr> <tr> <td>28</td> <td>0</td> <td>100</td> </tr> <tr> <td>38</td> <td>0</td> <td>100</td> </tr> <tr> <td>40</td> <td>100</td> <td>0</td> </tr> <tr> <td>50</td> <td>100</td> <td>0</td> </tr> </tbody> </table>	Time(min)	A(%)	B(%)	0	100	0	28	0	100	38	0	100	40	100	0	50	100	0
Time(min)	A(%)	B(%)																	
0	100	0																	
28	0	100																	
38	0	100																	
40	100	0																	
50	100	0																	
Flow Rate:	1.5 mL/min																		
Injection Volume:	210 nm																		
Temperature:	30°C																		
Injection Volume:	20 μL																		

Torasemide



Column:	Ultisil™ F-C8, 4.6 ×250 mm, 5 μm
Mobile Phase:	0.02 mol/L diammonium hydrogen phosphate (pH 7.0)/methanol=65/35
Flow Rate:	1.0 mL/min
Injection Volume:	288 nm
Temperature:	30 C
Injection Volume:	20 μL

Ordering Information

Ultisil™ PFP

Particle size	Column ID (mm)	Column Length (mm)										Guard Cartridge	Guard Column Holder
		30	33	50	75	100	125	150	200	250	300		
3 μm 120 Å	2.1	00224-21009	09224-21009	00224-21010	00224-21011	00224-21012	00224-21013	00224-21014	00224-21015	00224-21016	-	00808-23019	00808-01107
	3.0	00224-21018	-	00224-21019	00224-21020	00224-21021	00224-21022	00224-21023	00224-21024	00224-21025	-	00808-23019	00808-01107
	4.0	00224-21027	-	00224-21028	00224-21029	00224-21030	00224-21031	00224-21032	00224-21033	00224-21034	-	00808-03024	00808-01101
	4.6	00224-21036	11224-21036	00224-21037	00224-21038	00224-21039	00224-21040	00224-21041	00224-21042	00224-21043	-	00808-03024	00808-01101
5 μm 120 Å	2.1	00224-31009	09224-31009	00224-31010	00224-31011	00224-31012	00224-31013	00224-31014	00224-31015	00224-31016	-	00808-24035	00808-01107
	3.0	00224-31018	-	00224-31019	00224-31020	00224-31021	00224-31022	00224-31023	00224-31024	00224-31025	-	00808-24035	00808-01107
	4.0	00224-31027	-	00224-31028	00224-31029	00224-31030	00224-31031	00224-31032	00224-31033	00224-31034	00224-31035	00808-04024	00808-01101
	4.6	00224-31036	11224-31036	00224-31037	00224-31038	00224-31039	00224-31040	00224-31041	00224-31042	00224-31043	00224-31044	00808-04024	00808-01101

Ultisil™ F-C8

Particle size	Column ID (mm)	Column Length (mm)										Guard Cartridge	Guard Column Holder
		30	33	50	75	100	125	150	200	250	300		
3 μm 120Å	2.1	00222-21009	09222-21009	00222-21010	00222-21011	00222-21012	00222-21013	00222-21014	00222-21015	00222-21016	-	00808-23021	00808-01107
	3.0	00222-21018	-	00222-21019	00222-21020	00222-21021	00222-21022	00222-21023	00222-21024	00222-21025	-	00808-23021	00808-01107
	4.0	00222-21027	-	00222-21028	00222-21029	00222-21030	00222-21031	00222-21032	00222-21033	00222-21034	-	00808-03023	00808-01101
	4.6	00222-21036	11222-21036	00222-21037	00222-21038	00222-21039	00222-21040	00222-21041	00222-21042	00222-21043	-	00808-03023	00808-01101
5 μm 120Å	2.1	00222-31009	09222-31009	00222-31010	00222-31011	00222-31012	00222-31013	00222-31014	00222-31015	00222-31016	-	00808-24036	00808-01107
	3.0	00222-31018	-	00222-31019	00222-31020	00222-31021	00222-31022	00222-31023	00222-31024	00222-31025	-	00808-24036	00808-01107
	4.0	00222-31027	-	00222-31028	00222-31029	00222-31030	00222-31031	00222-31032	00222-31033	00222-31034	00222-31035	00808-04038	00808-01101
	4.6	00222-31036	11222-31036	00222-31037	00222-31038	00222-31039	00222-31040	00222-31041	00222-31042	00222-31043	00222-31044	00808-04038	00808-01101

Don't see your needed size or format? Contact Welch or your local distributor for other dimensions.