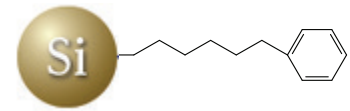


# InertSustain™ Phenylhexyl

## Physical Properties

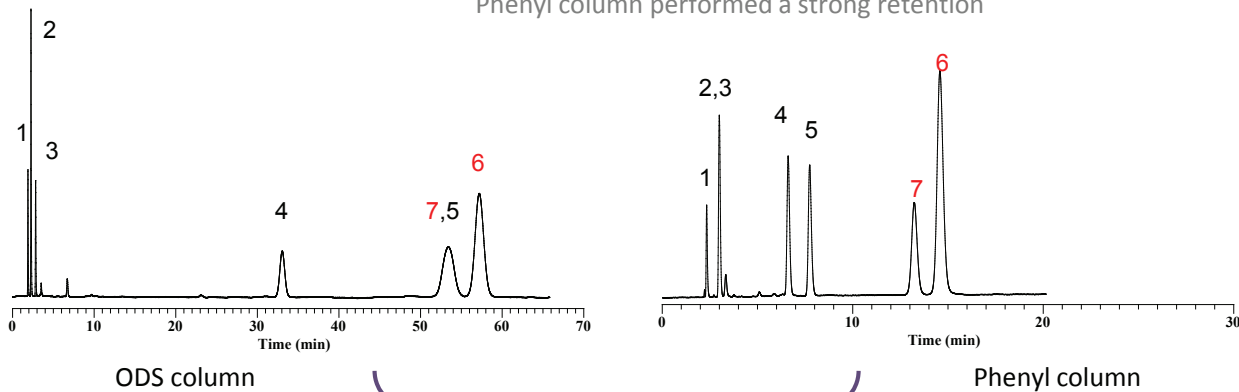
- |                 |                                       |                  |                      |
|-----------------|---------------------------------------|------------------|----------------------|
| ● Silica        | : New Evolved Surface (ES) Silica Gel | ● Bonded Phase   | : Phenylhexyl Groups |
| ● Particle Size | : 3 μm, 5 μm                          | ● End-capping    | : Yes                |
| ● Surface Area  | : 350 m <sup>2</sup> /g               | ● Carbon Loading | : 9.0 %              |
| ● Pore Size     | : 100 Å (10 nm)                       | ● USP Code       | : L11                |
| ● Pore Volume   | : 0.85 mL/g                           | ● pH Range       | : 1.0 ~ 10.0         |



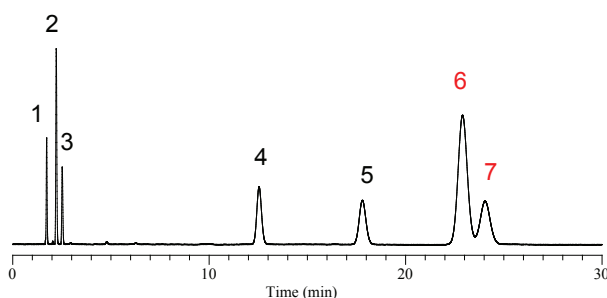
InertSustain Phenylhexyl columns are bonded with Phenylhexyl groups, which employs a Phenyl ring with a Hexyl (6- Carbon) linker and is Densely bonded to our newly developed Evolved Surface silica gel delivering complementary selectivity to straight Alkyl-chain columns, but with industry leading inertness, lot-to-lot reproducibility and low back pressure.

ODS column changed the separation pattern

Phenyl column performed a strong retention



## InertSustain Phenylhexyl

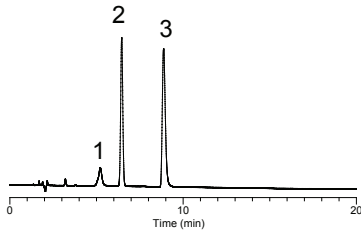


### Conditions

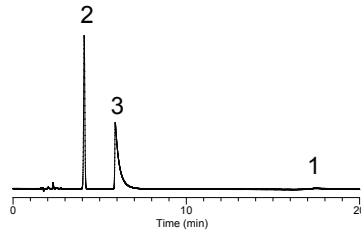
- |            |   |
|------------|---|
| Eluent     | : A) CH <sub>3</sub> OH, B) H <sub>2</sub> O,<br>A / B = 70/30, v / v   |
| Flow Rate  | : 1.0 mL/min  |
| Col. Temp. | : 40 °C   |
| Detection  | : UV 254 nm   |
| Sample     | : 1. Uracil<br>2. Caffeine<br>3. Phenol<br>4. n-Butylbenzene<br>5. n-Amylbenzene<br>6. Triphenylene<br>7. o-Terphenyl |

# Analysis of Strong Acidic Compound

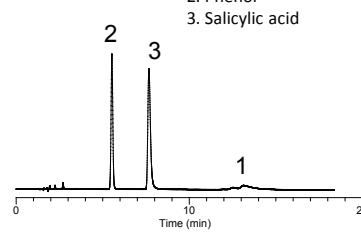
**Conditions**  
 Column Size : 5 µm, 150 x 4.6 mm I.D.  
 Eluent : A) CH3CN  
 : B) 0.1% H3PO4  
 : A/B = 25/75, v/v  
 Flow Rate : 1.0 mL/min  
 Col. Temp. : 40 °C  
 Detection : UV 254 nm  
 Sample : 1. Brilliant Blue FCF  
 : 2. Phenol  
 : 3. Salicylic acid



InertSustain Phenylhexyl



XBridge Phenyl



Luna Phenyl-Hexyl

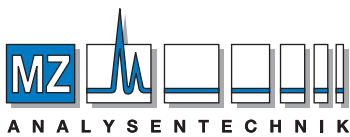
## Ordering Information:

HP Series Particle Size: 3 µm 50 Mpa(500 Bar)	Length \ I.D. (mm)	2.1	3.0	4.6
		30	5020-89209	5020-89215
	50	5020-89210	5020-89216	5020-89222
	75	5020-89211	5020-89217	5020-89223
	100	5020-89212	5020-89218	5020-89224
	150	5020-89213	5020-89219	5020-89225
	250	5020-89214	5020-89220	5020-89226

Particle Size : 3 µm	Length \ I.D. (mm)	1.0	1.5			
		30	5020-89160	5020-89166		
		50	5020-89161	5020-89167		
		75	5020-89162	5020-89168		
		100	5020-89163	5020-89169		
		150	5020-89164	5020-89170		
		250	5020-89165	5020-89171		
	Length \ I.D. (mm)	2.1	3.0	4.0	4.6	
		30	5020-89124	5020-89131	5020-89138	5020-89145
		50	5020-89125	5020-89132	5020-89139	5020-89146
	75	5020-89126	5020-89133	5020-89140	5020-89147	
	100	5020-89127	5020-89134	5020-89141	5020-89148	
	150	5020-89128	5020-89135	5020-89142	5020-89149	
	250	5020-89129	5020-89136	5020-89143	5020-89150	

Particle Size : 5 µm	Length \ I.D. (mm)	1.0	1.5			
		30	5020-89038	5020-89044		
		50	5020-89039	5020-89045		
		75	5020-89040	5020-89046		
		100	5020-89041	5020-89047		
		150	5020-89042	5020-89048		
		250	5020-89043	5020-89049		
	Length \ I.D. (mm)	2.1	3.0	4.0	4.6	
		30	5020-89001	5020-89008	5020-89015	5020-89022
		50	5020-89002	5020-89009	5020-89016	5020-89023
	75	5020-89003	5020-89010	5020-89017	5020-89024	
	100	5020-89004	5020-89011	5020-89018	5020-89025	
	150	5020-89005	5020-89012	5020-89019	5020-89026	
	250	5020-89006	5020-89013	5020-89020	5020-89027	

\* End-fittings are 1/16" Waters-compatible



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