

Specific HPLC Column For Acrolein Analysis

Inertsil Acrolein C18

Inertsil Acrolein offers rapid separation of DNPH-Acetone and DNPH-Acrolein under a general mobile phase condition such as Acetonitrile /Water.

Specifications

Base Material	: 3 Series High Purity Silica Gel
Particle Size	: 5 μm
Surface Area	: 450 m^2/g
Pore Size	: 100 $\text{\AA}$
Pore Volume	: 1.05 mL/g
Functional Group	: Octadecyl
End-capping	: Yes
Carbon Loading	: 9.0 %
USP Code	: L1

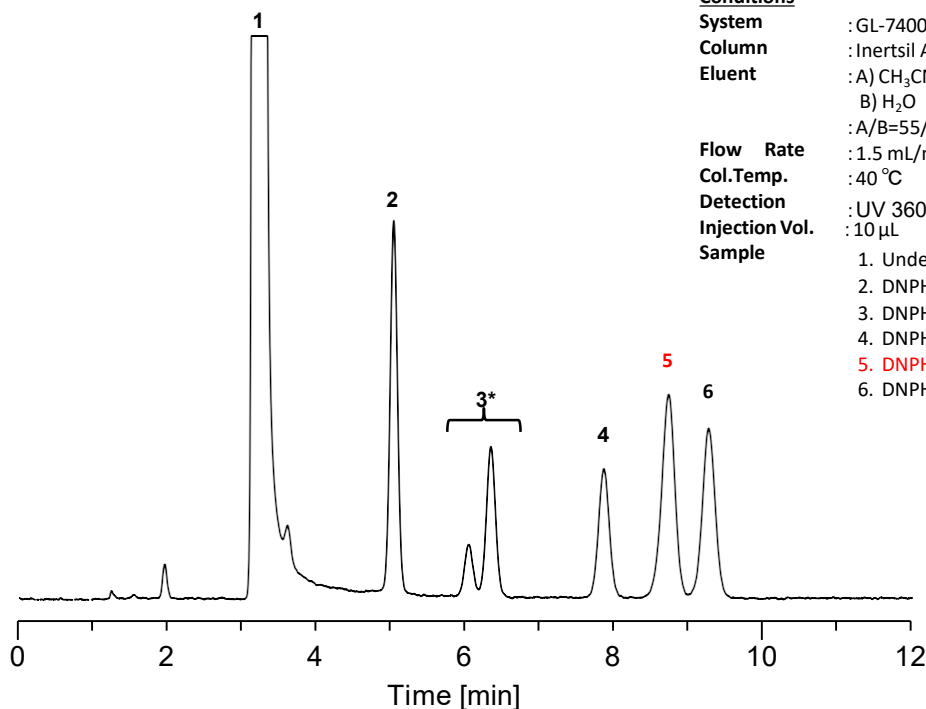


Description	Particle Size	I.D.	Length	Cat.No.
Inertsil Acrolein C18	5 μm	5 μm	250 mm	5020-18051

【Example of Analysis】

Conditions

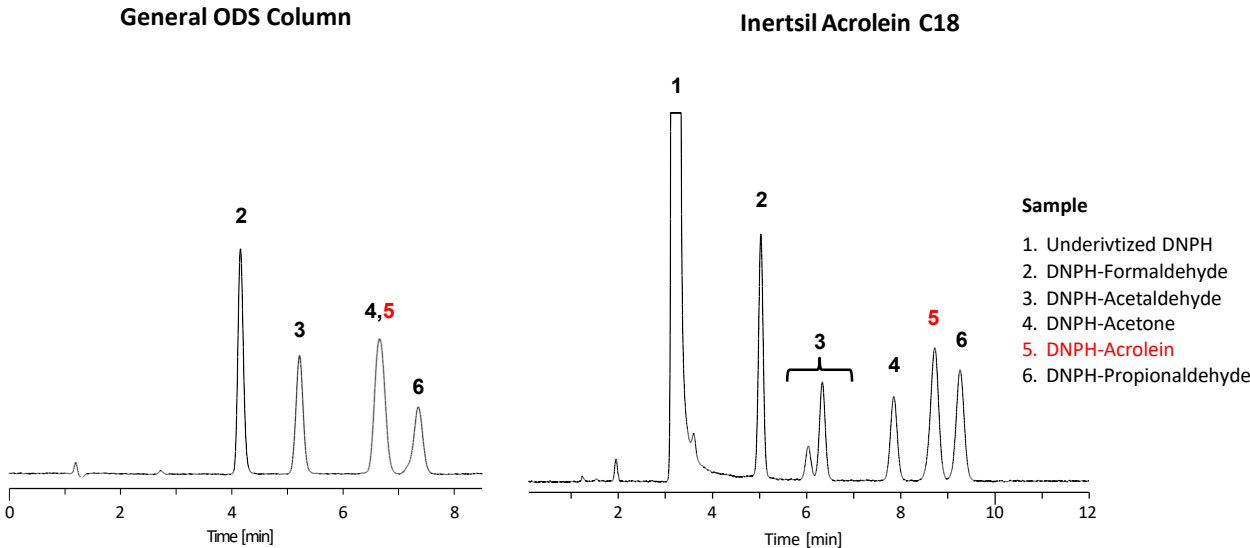
System	: GL-7400
Column	: Inertsil Acrolein C18 (5 μm , 250 $\times$ 4.6 mm I.D.)
Eluent	: A) CH_3CN B) H_2O : A/B=55/45, v/v
Flow Rate	: 1.5 mL/min
Col.Temp.	: 40 $^\circ\text{C}$
Detection	: UV 360 nm
Injection Vol.	: 10 μL
Sample	1. Underivatized DNPH 2. DNPH-Formaldehyde 3. DNPH-Acetaldehyde [*] 4. DNPH-Acetone 5. DNPH-Acrolein 6. DNPH-Propionaldehyde



(each 0.2 mg/L)

*Inertsil Acrolein C18 has a characteristic to separate DNPH-Acetaldehyde isomers.
When quantifying, add the two peaks and calculate the contained amount.

【Comparison with conventional ODS column】



Rapid separation of DNPH-Acetone and DNPH-Acrolein can now be achieved under a general mobile phase condition such as Acetonitrile/Water using Inertsil Acrolein C18.

【Related Products】

InertSep mini AERO DNPH-HR

InertSep mini AERO DNPH-HR is a newly-developed DNPH silica cartridges offering advanced sampling of acrolein while other brands' DNPH cartridges fail.



Specifications

Adsorbent : Spherical silica-gels coated with Dinitrophenylhydrazine
Adsorbent Vol. : 300 mg/pc
Flow Rate Range : 0 - 1,000 mL/min
Max. Operating Temp. : 20 °C - 100 °C
Storage Temp. (before open) : Under 4 °C
Each cartridge is individually wrapped.

Description	Qty.	Cat.No.
InertSep mini AERO DNPH-HR 【Freeze】	20	5010-23501

※上記製品は冷蔵輸送品です。冷蔵梱包費¥1,000を別途頂戴いたします。

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