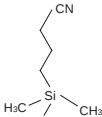
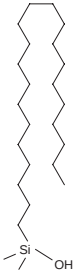
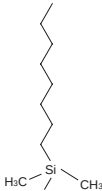
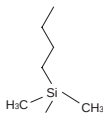
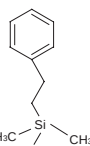


3. Other Reversed Phase Columns

Specifications

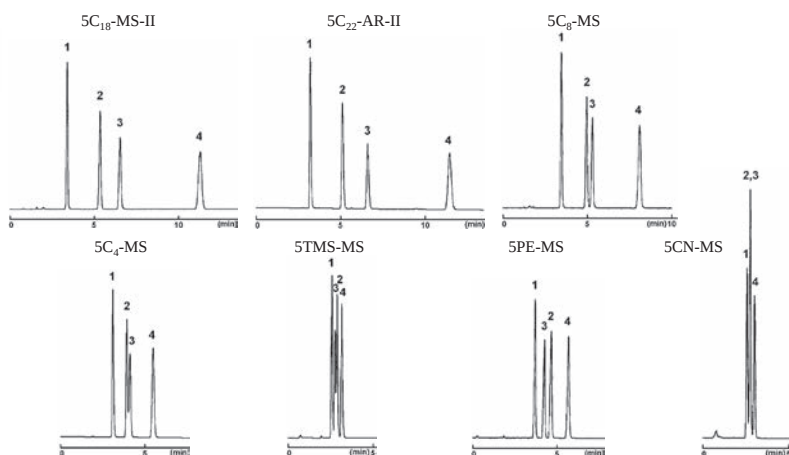
Packing Material	CN-MS	C ₂₂ -AR-II	C ₈ -MS	C ₄ -MS	PE-MS
Silica Gel	High purity porous spherical silica				
Average Particle Size	5 μm				
Average Pore Size	120 Å				
Specific Surface Area	300 m ² /g				
Bonded Phase Structure					
Bonded Phase	Cyanopropyl group	Dococyl group	Octyl group	Butyl group	Phenylethyl group
Bonding Type	Monomeric	Polymeric	Monomeric		
Main Interaction	Hydrophobic interaction $\pi - \pi$ interaction	Hydrophobic interaction			Hydrophobic interaction $\pi - \pi$ interaction
End-Capping	Near-perfect treatment				
Carbon Content	7%	19%	10%	7%	10%
Usable pH Range	2 ~ 7.5				

Difference in Separation Characteristics

COSMOSIL Application Data

Column: COSMOSIL **
 Column size: 4.6mm I.D. × 150mm
 Mobile phase: Methanol/ H₂O = 60/40
 Flow rate: 1.0 ml/min
 Temperature: 30°C
 Detection: UV254nm

Sample: 1; Acetophenone (0.05μg)
 2; Methyl Benzoate (0.5μg)
 3; Benzene (2.0μg)
 4; Toluene (2.0μg)



COSMOSIL CN-MS



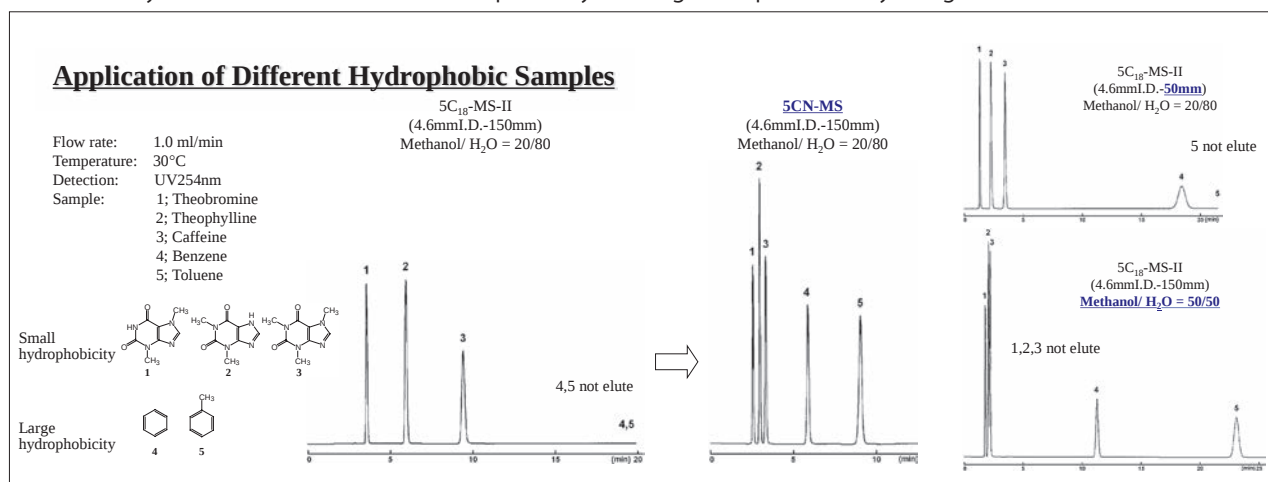
- Cyanopropyl-bonded stationary phase
- Enables separation of different hydrophobic samples without using gradient

Suitable Samples

- Mixtures of natural compounds

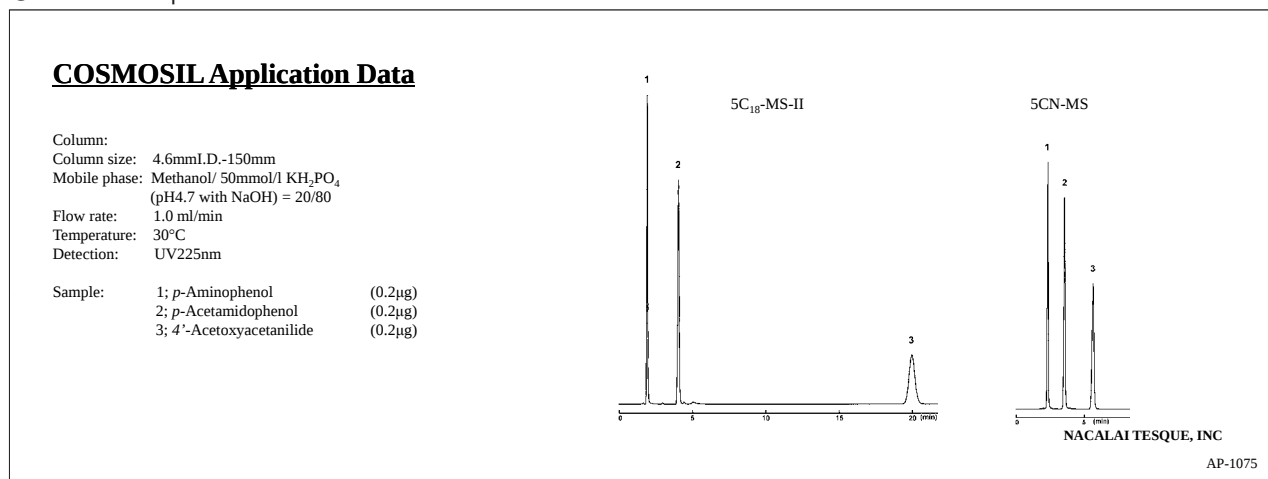
Rapid Analysis

Gradient elution is commonly used for the samples containing both polar and non-polar compounds. However, gradient elution may cause reproducibility problem depending on the gradient mixer and pump, and need an equilibration time for each analysis. COSMOSIL 5CN-MS offers rapid analysis and great reproducibility using isocratic elution mode.



Applications

- Acetoaminophen



Ordering Information

- COSMOSIL 5CN-MS Analytical / Preparative Columns (Particle Size: 5 μm)

Packed Column

I.D. x Length (mm)	Product Number
2.0 × 150	34270-91
4.6 × 50	38233-61
4.6 × 100	38234-51
4.6 × 150	38235-41
4.6 × 250	38236-31

I.D. x Length (mm)	Product Number
6.0 × 150	38237-21
6.0 × 250	38238-11
10 × 250	38239-01
20 × 250	38240-61

Guard Column

I.D. x Length (mm)	Product Number
4.6 × 10	38231-81
10 × 20	38232-71



Ordering Information

● COSMOSIL 5C₂₂-AR-II Analytical / Preparative Columns (Particle Size: 5 μm)

Packed Column

I.D. x Length (mm)	Product Number	I.D. x Length (mm)	Product Number
4.6 × 50	05848-41	6.0 × 150	05850-91
4.6 × 100	05849-31	6.0 × 250	05851-81
4.6 × 150	04598-51	10 × 250	04969-91
4.6 × 250	04599-41	20 × 250	05183-41

Guard Column

I.D. x Length (mm)	Product Number
4.6 × 10	04881-21
10 × 20	05554-81

● COSMOSIL 5C₈-MS Analytical / Preparative Columns (Particle Size: 5 μm)

Packed Column

I.D. x Length (mm)	Product Number	I.D. x Length (mm)	Product Number
4.6 × 50	38153-11	6.0 × 150	38157-71
4.6 × 100	38154-01	6.0 × 250	38158-61
4.6 × 150	38155-91	10 × 250	38159-51
4.6 × 250	38156-81	20 × 250	38160-11

Guard Column

I.D. x Length (mm)	Product Number
4.6 × 10	38151-31
10 × 20	38152-21

● COSMOSIL 5C₄-MS Analytical / Preparative Columns (Particle Size: 5 μm)

Packed Column

I.D. x Length (mm)	Product Number	I.D. x Length (mm)	Product Number
4.6 × 50	38163-81	6.0 × 150	38167-41
4.6 × 100	38164-71	6.0 × 250	38168-31
4.6 × 150	38165-61	10 × 250	38169-21
4.6 × 250	38166-51	20 × 250	38170-81

Guard Column

I.D. x Length (mm)	Product Number
4.6 × 10	38161-01
10 × 20	38162-91

● COSMOSIL 5PE-MS Analytical / Preparative Columns (Particle Size: 5 μm)

Packed Column

I.D. x Length (mm)	Product Number	I.D. x Length (mm)	Product Number
4.6 × 50	38183-21	6.0 × 150	38187-81
4.6 × 100	38184-11	6.0 × 250	38188-71
4.6 × 150	38185-01	10 × 250	38189-61
4.6 × 250	38186-91	20 × 250	38190-21

Guard Column

I.D. x Length (mm)	Product Number
4.6 × 10	38181-41
10 × 20	38182-31