

APPLICATION

Substituted Phenol Isomers Separated with a Kinetex[®] F5 Core-Shell LC Column

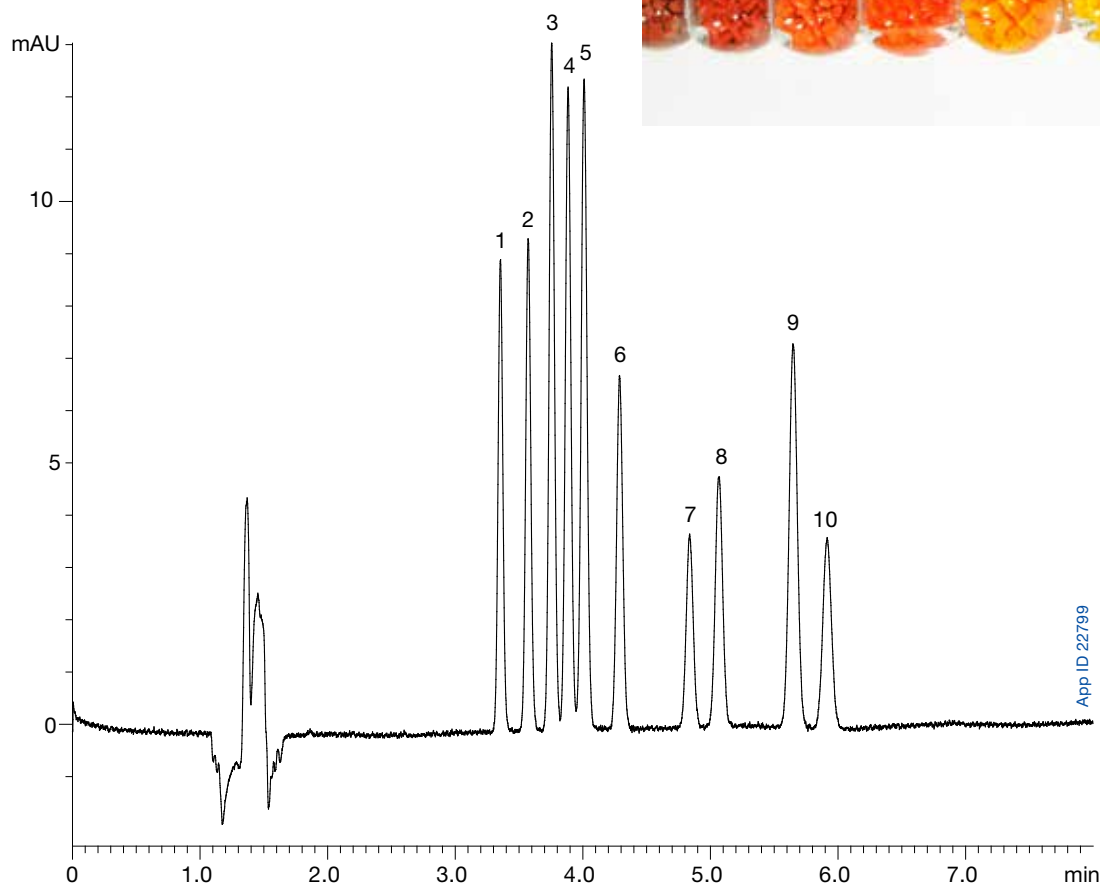
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Overview

Substituted phenols are necessary compounds derived from the refinement of fossil fuels. These isomeric compounds have a number of industrial uses from pesticide precursors to resin manufacturing and even flame retardants. With its unique ability to provide both steric and electrostatic interactions in addition to hydrophobic retention, the Kinetex 2.6 µm F5 is able to separate all of these structurally similar molecules while still maintaining a rapid analysis time.

LC/UV Conditions

Column: Kinetex 2.6 µm F5
Dimensions: 150 x 4.6 mm
Part No.: 00F-4723-E0
Mobile Phase: A: 0.1 % TFA in Water
 B: Acetonitrile
Isocratic: (A/B) 55:45
Flow Rate: 1 mL/min
Temperature: Ambient
Detection: UV @ 254 nm
Sample: 1. 3,4-Dimethylphenol
 2. 3,5-Dimethylphenol
 3. 2,3-Dimethylphenol
 4. 2,5-Dimethylphenol
 5. 2,6-Dimethylphenol
 6. 2,6-Dichlorophenol
 7. 2,5-Dichlorophenol
 8. 3,4-Dichlorophenol
 9. 2,4-Dibromophenol
 10. 3,5-Dichlorophenol



App ID 22799

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Kinetex® Ordering Information

1.7 µm Minibore Columns				SecurityGuard™ ULTRA Cartridges [‡]
Phase	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
F5	00B-4722-AN	00D-4722-AN	00F-4722-AN	AJ0-9322 for 2.1 mm ID

2.6 µm Minibore Columns			SecurityGuard ULTRA Cartridges [‡]
Phase	50 x 2.1	100 x 2.1	3/pk
F5	00B-4723-AN	00D-4723-AN	AJ0-9322 for 2.1 mm ID

2.6 µm MidBore™ Columns			SecurityGuard ULTRA Cartridges [‡]
Phase	50 x 3.0	100 x 3.0	3/pk
F5	00B-4723-Y0	00D-4723-Y0	AJ0-9321 for 3.0 mm ID

2.6 µm Analytical Columns				SecurityGuard ULTRA Cartridges [‡]
Phase	50 x 4.6	100 x 4.6	150 x 4.6	3/pk
F5	00B-4723-E0	00D-4723-E0	00F-4723-E0	AJ0-9320 for 4.6 mm ID

[‡]SecurityGuard ULTRA Cartridges require holder, Part No.: AJ0-9000