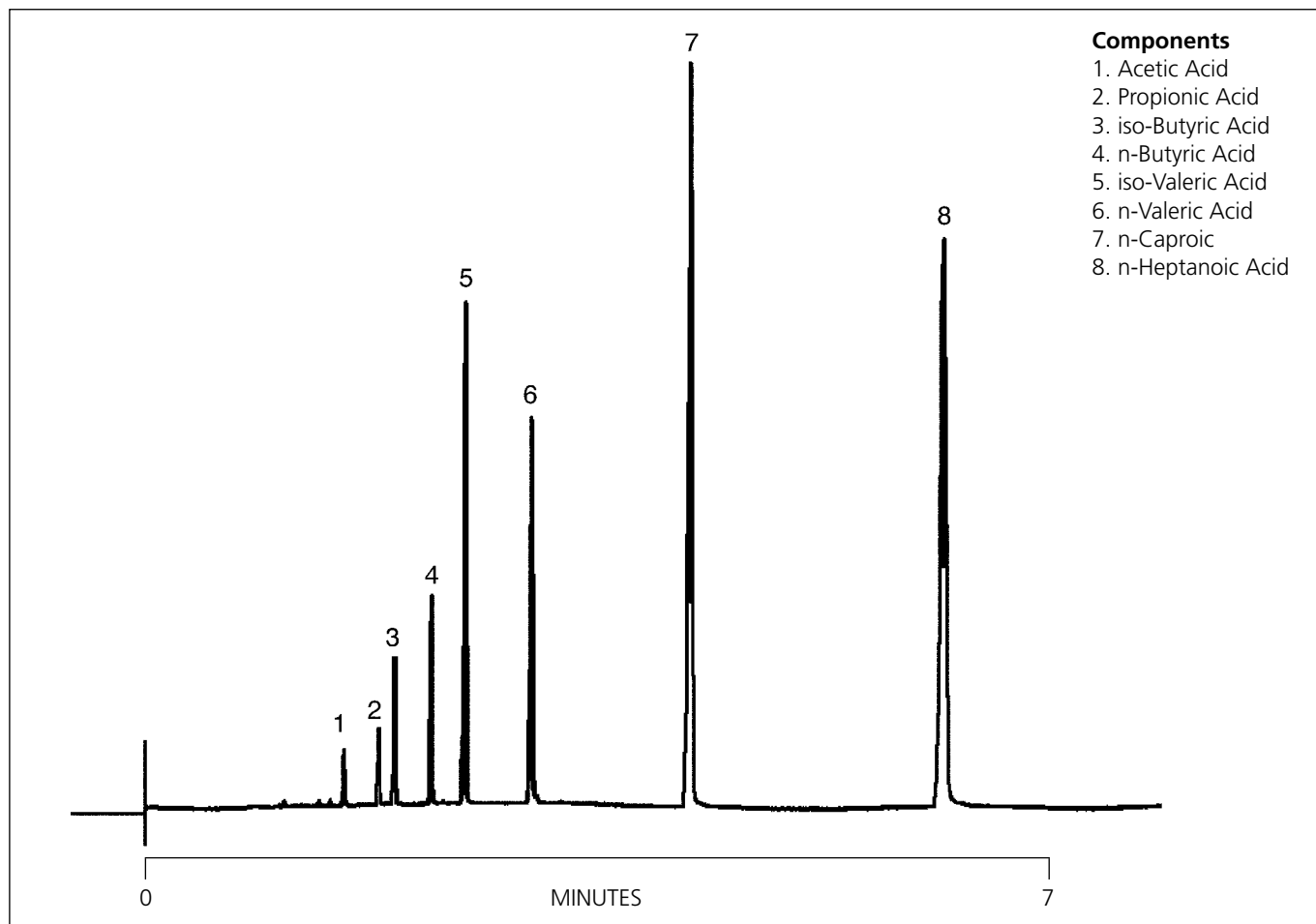


ANALYSIS OF VOLATILE FREE FATTY ACIDS IN WATER ON BP21

Column Part No.: 054462

Phase: BP21, 0.25 µm film
Column: 25 m x 0.22 mm ID
Initial Temp: Isothermal at 140 °C
Detector: FID
Sensitivity: 2×10^{-11} AFS
Injection Mode: Split

Notes: BP21 provides excellent peak shape for all fatty acids including Acetic acid



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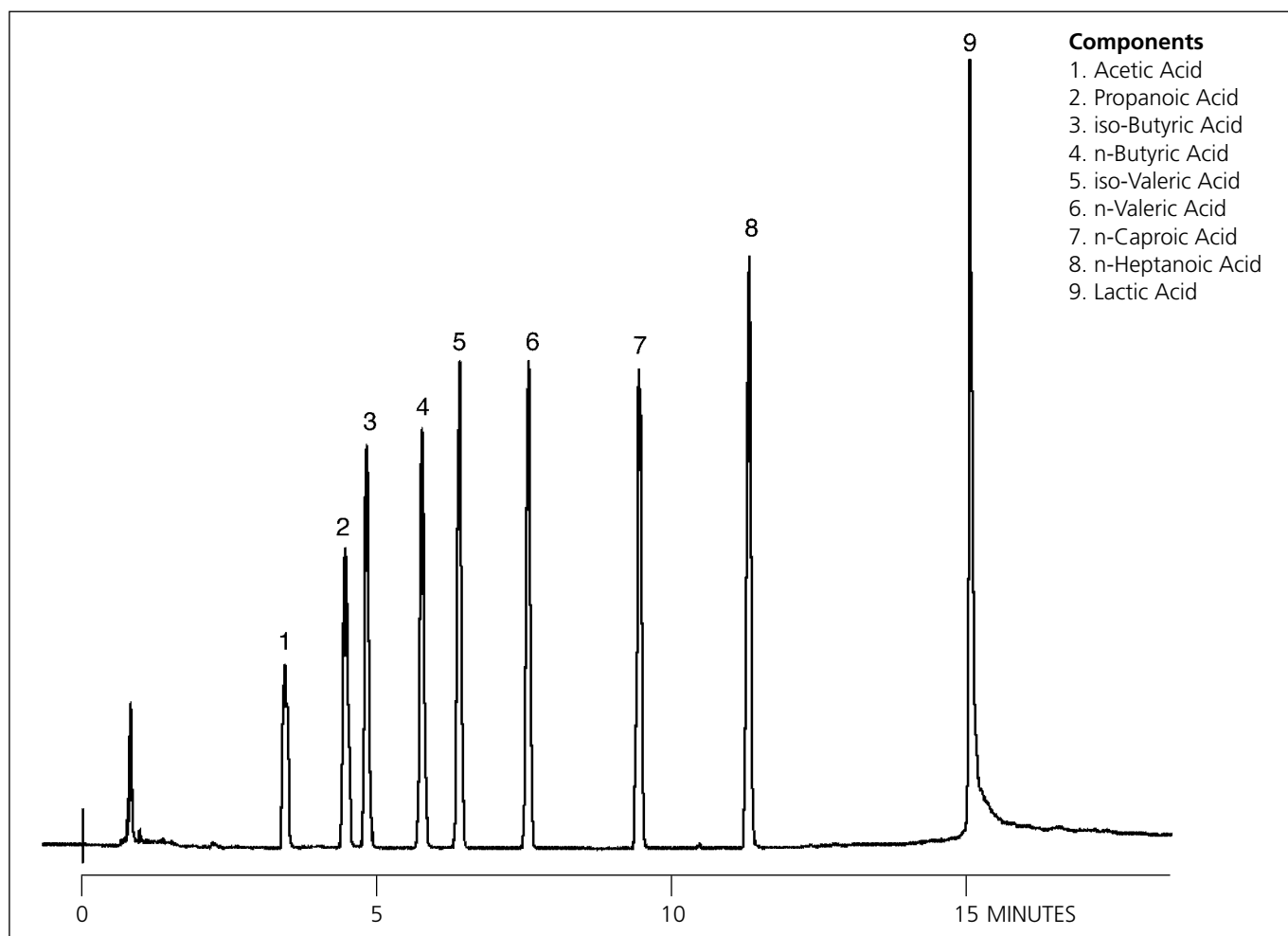
ANALYSIS OF ORGANIC ACIDS IN WATER ON BP21

ORGANIC ACIDS IN WATER (0.03 m Oxalic acid)

Column Part No.: 054477

Phase: BP21, 0.5 μm film
Column: 30 m x 0.53 mm ID
Initial Temp: 85 $^{\circ}\text{C}$, 0 min
Rate: 6 $^{\circ}\text{C}/\text{min}$
Final Temp: 180 $^{\circ}\text{C}$, 5 min
Detector: FID
Sensitivity: 64×10^{-12} AFS
Injection Mode: On-Column

Notes: On-column injection and the addition of a 0.03 M Oxalic acid (2%) to the injection solution increases the acidity of the column to allow lactic acid to be detected.



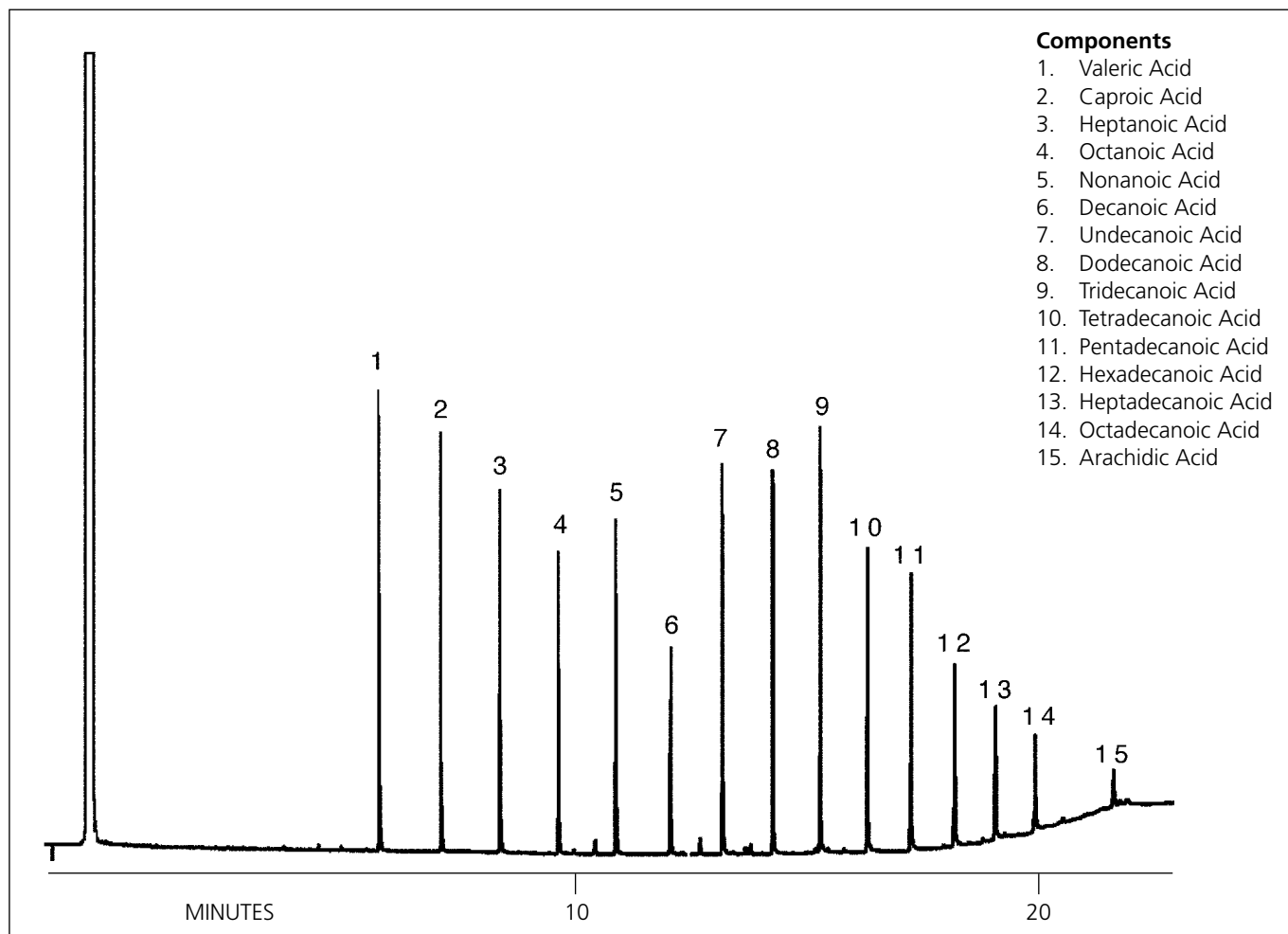
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ANALYSIS OF 15 ORGANIC ACIDS ON BP20

ORGANIC ACIDS

Column Part No.: 054433

Phase: BP20, 0.25 μm
Column: 30 m x 0.32 mm ID
Initial Temp.: 70 $^{\circ}\text{C}$
Rate: 10 $^{\circ}\text{C}/\text{min}$
Final Temp.: 260 $^{\circ}\text{C}$, 5 min
Detector: FID
Injection Mode: Split
Carrier Gas: H_2 , 6 psi



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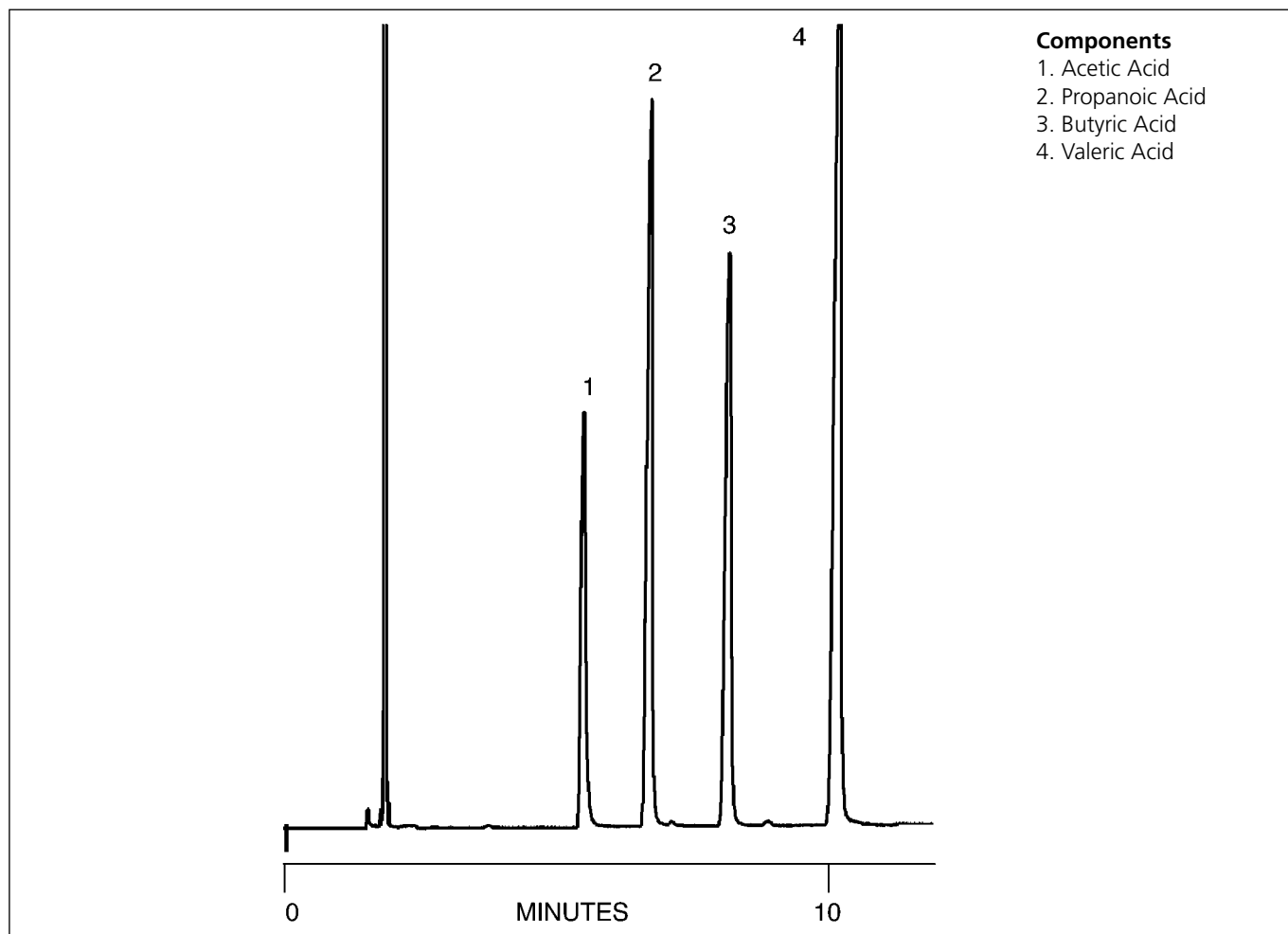
ANALYSIS OF VOLATILE ACIDS ON BP20

VOLATILE ACIDS

Column Part No: 054455

Phase: BP20, 2.0 μm film
Column: 12 m x 0.53 mm ID
Initial Temp: 140 $^{\circ}\text{C}$
Rate: 10 $^{\circ}\text{C}/\text{min}$
Final Temp: 200 $^{\circ}\text{C}$
Carrier Gas: Nitrogen
Carrier Flow: 10 mL/min
Injection Volume: 0.1 μL

Notes: A thick film BP20 column can be used to analyse volatile fatty acids

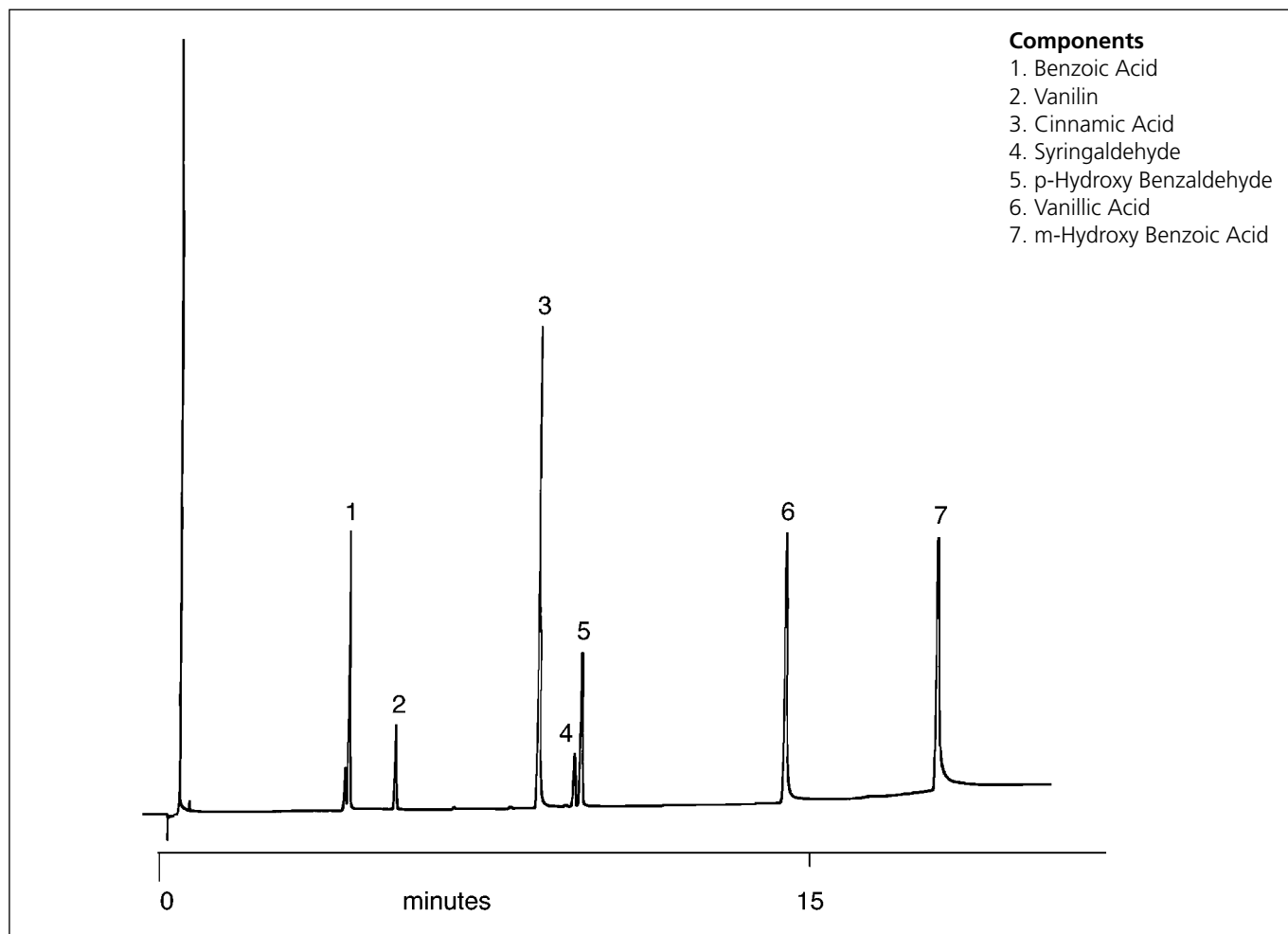


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ANALYSIS OF LIGNIN HUMIC ACID BREAKDOWN PRODUCTS ON BP21

Column Part No.: 054467

Phase: BP21, 0.25 μm
Column: 12 m x 0.32 mm ID
Initial Temp.: 140 $^{\circ}\text{C}$
Rate 1: 6 $^{\circ}\text{C}/\text{min}$
Final Temp.: 250 $^{\circ}\text{C}$, 5 min
Detector: FID, 320 $^{\circ}\text{C}$
Injector Mode: Split 50:1, 280 $^{\circ}\text{C}$
Carrier Gas: Helium, 10 psi
Injection Volume: 1 μL

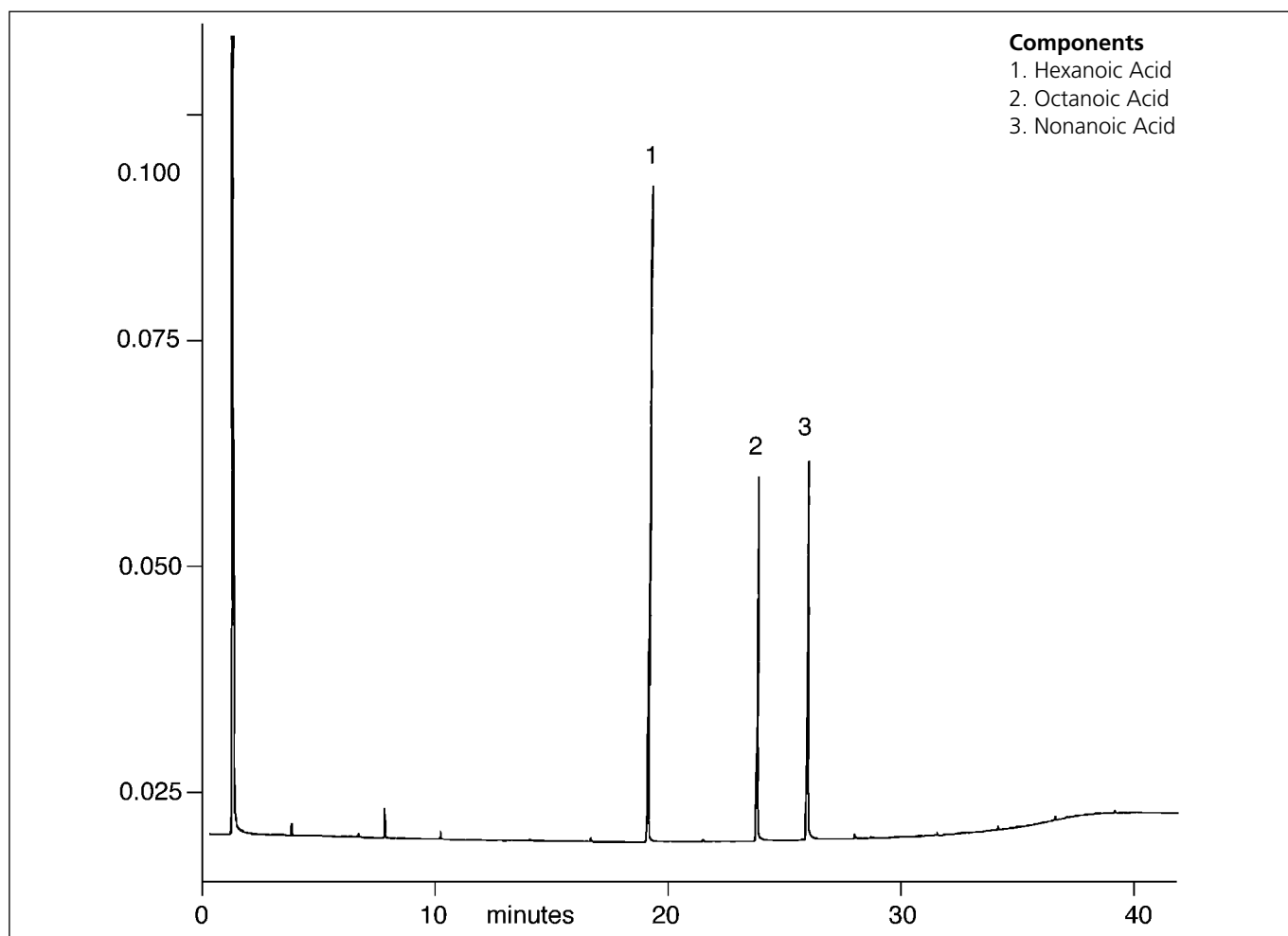


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FREE ACID MIXTURE ON BP20 (2-4ng/COMPONENT)

Column Part No.: 054421

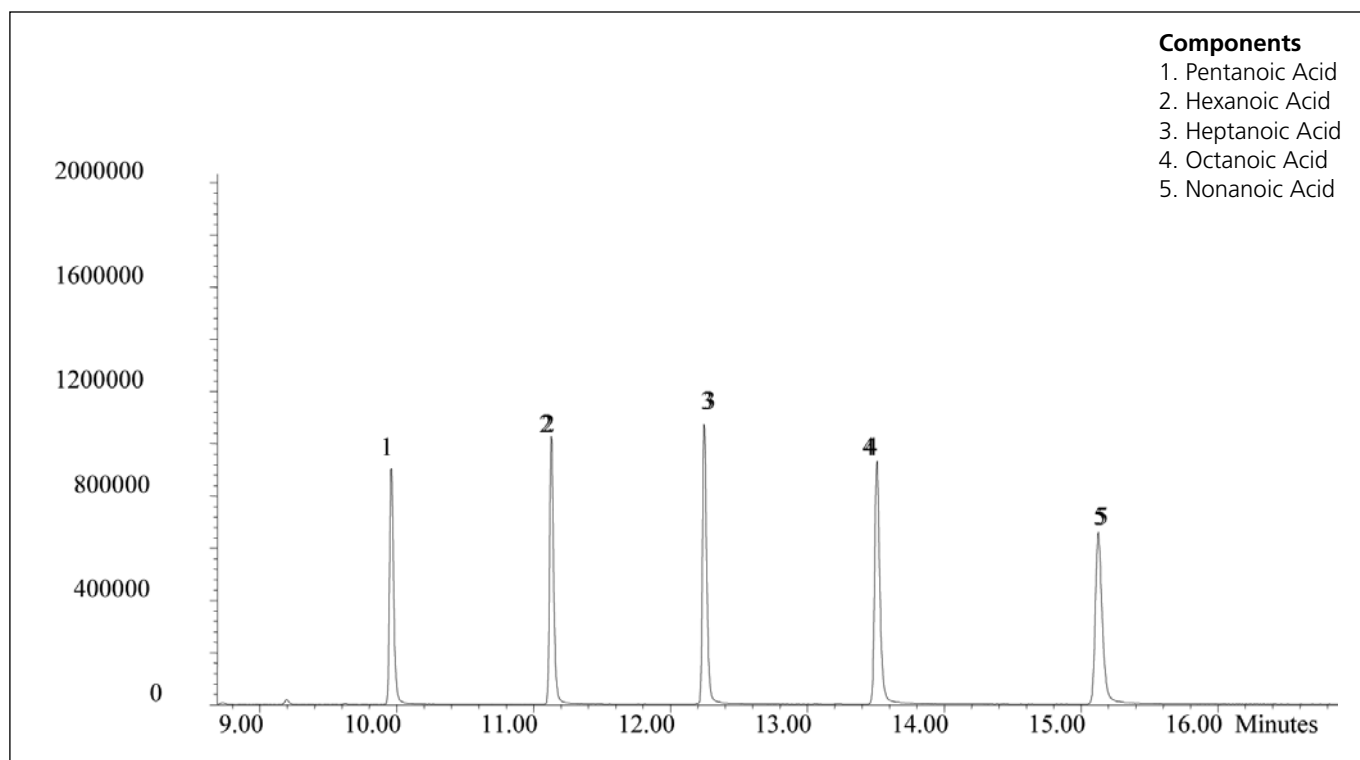
Phase: BP20, 0.25 μm
Column: 25 m x 0.22 mm ID
Initial Temp.: 70 $^{\circ}\text{C}$, 1 min
Rate 1: 5 $^{\circ}\text{C}/\text{min}$
Final Temp.: 250 $^{\circ}\text{C}$, 10 min
Detector: FID, 280 $^{\circ}\text{C}$
Injector Mode: Split, 50:1, 240 $^{\circ}\text{C}$
Carrier Gas: He, 15 psi
Injection Volume: 1 μL



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ANALYSIS OF ORGANIC ACIDS C5-C9 ON SOLGEL-WAX™

Column Part No.:	054796	Constant Flow:	On
Phase:	SolGel Wax, 0.25 µm film	Average	
Column:	30 m x 0.25 mm ID	Linear Velocity:	37 cm/sec at 70 °C
Organic acids C5-C9:	10 ng/µL in dichloromethane	Injection Mode:	Split
Initial Temp:	70 °C, 1 min	Split Ratio:	100:1
Rate 1:	10 °C to 180 °C	Injection Volume:	0.1 µL
Final Temp:	180 °C, 5 min	Injection Temp:	250 °C
Detector Type:	Mass Spectrometer	Liner Part No.:	092018
Carrier Gas:	He, 8.8 psi	Liner Type:	4 mm ID
Carrier Gas Flow:	1.0 mL/min		Double Taper Liner



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