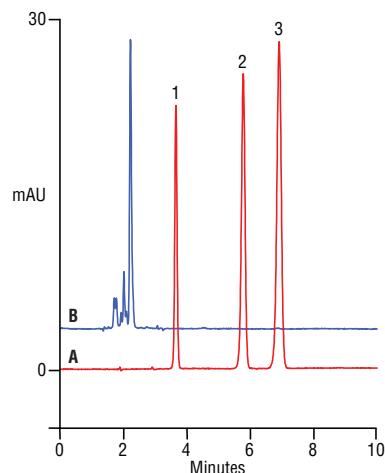


Nitrophenols on a Thermo Scientific™ Acclaim™ Mixed-Mode WAX-1 Column



Column: Thermo Scientific™ Acclaim™ Mixed-Mode WAX-1, 5 µm 4.6 x 150 mm
Pump: Thermo Scientific™ Dionex™ UltiMate™ LPG-3400
Mobile Phase: 430 g acetonitrile, 450 g water, 1.85 g KH₂PO₄ (13.6 mmol), 1.72 g Na₂HPO₄·7H₂O (6.4 mmol)
Isocratic
Flow Rate: 1.00 mL/min
Injection: WPS-3000 SL sampler, 20 µL
Temperature: TCC-3100, 30 °C
Detection: VWD-3400, UV 360 nm
Peaks:
1. 4-Nitrophenol
2. 2,4-Dinitrophenol
3. 2,4,6-Trinitrophenol
Chromatograms: (A) 5 µg/mL in 50% (v/v) acetonitrile
(B) EPA 8330 test mix 5 µg/mL

24559

Nitrophenols are highly toxic pollutants. Trinitrophenol, also known as picric acid, is an explosive. These compounds are known for their variable retention and poor peak shape when separated using conventional RP-HPLC. The unique Acclaim Mixed-Mode WAX-1 column gives reliable, sharp peaks.