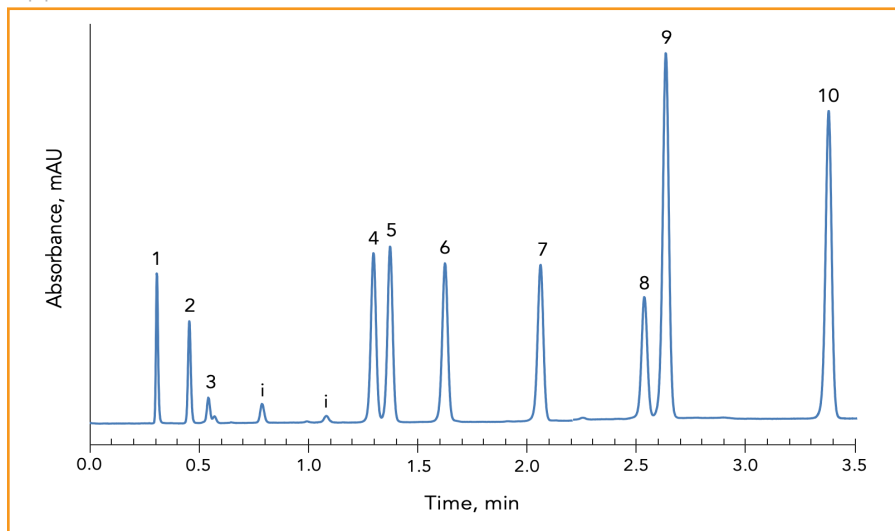




Gradient Separation of NSAIDs on HALO® RP-Amide

Application Note 16-NS



PEAK IDENTITIES:

1. Acetaminophen
 2. Aspirin
 3. Salicylic acid
 4. Tolmetin
 5. Ketoprofen
 6. Naproxen
 7. Fenopropfen
 8. Diclofenac
 9. Ibuprofen
 10. Mefenamic acid
- i = impurity

Ten non-steroidal anti-inflammatory drugs (NSAIDs) can be separated in under 3.5 minutes using a short HALO® RP-Amide, 2.7 μ m packed column.

TEST CONDITIONS:

Column: HALO 90 Å RP-Amide, 2.7 μ m,
4.6 x 50 mm

Part Number: 92814-407

Mobile Phase: 50/50 - A/B (start)

A: 0.02 M Sodium phosphate buffer, pH 2.5

B: Methanol

Gradient:	Time (min)	% B
	0.0	50
	0.1	50
	0.5	55
	3.5	80
	4.0	80

Flow Rate: 2.0 mL/min

Pressure: 289 bar

Temperature: 35 °C

Detection: UV 254 nm, VWD

Injection Volume: 1.0 μ L

Sample Solvent: Mobile phase

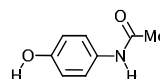
Response Time: 0.02 sec

Flow Cell: 2.5 μ L semi-micro

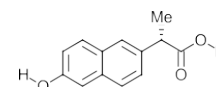
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 μ L

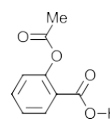
STRUCTURES:



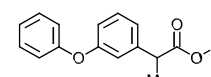
Acetaminophen



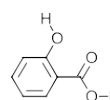
Naproxen



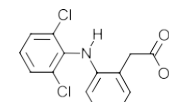
Aspirin



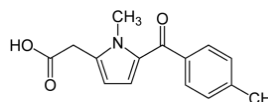
Fenopropfen



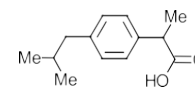
Salicylic acid



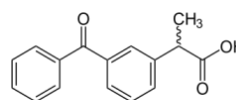
Diclofenac



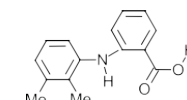
Tolmetin



Ibuprofen



Ketoprofen



Mefenamic acid

