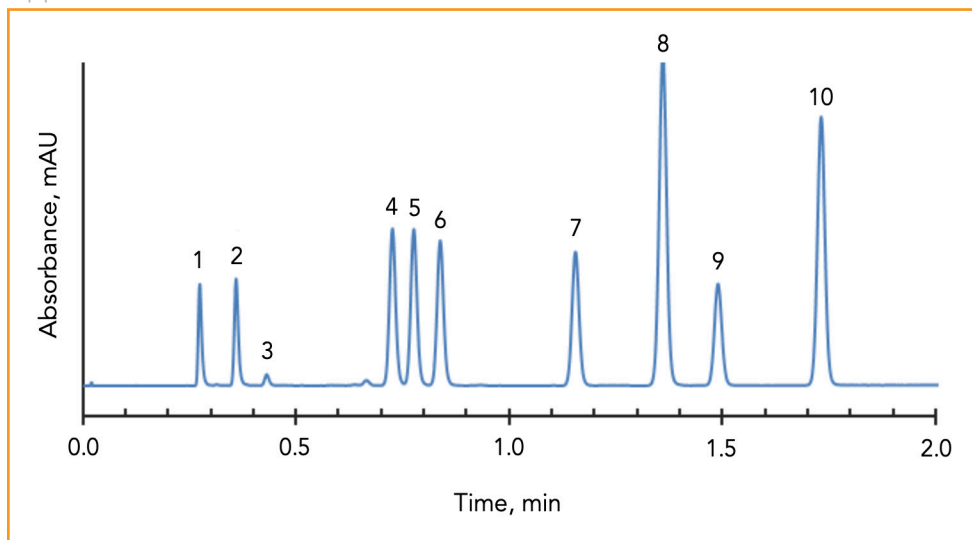




Gradient Separation of NSAIDs on HALO® C8

Application Note 14-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

Common pain and inflammation relievers are the non-steroidal anti-inflammatory drugs (NSAIDs). Using a gradient method, these popular drugs can be easily separated on the HALO® C8 phase in under two minutes.

TEST CONDITIONS:

Column: HALO 90 Å C8, 2.7 µm,
4.6 x 50 mm

Part Number: 92814-408

Mobile Phase: 38/62 - A/B (start)

A: 0.02 M sodium phosphate buffer, pH 2.5

B: Methanol

Gradient:	Time (min)	% B
	0.0	62
	0.1	62
	2.0	85

Flow Rate: 2.0 mL/min

Pressure: 286 bar

Temperature: 35 °C

Detection: UV 254 nm, VWD

Injection Volume: 1.0 µL

Sample Solvent: Mobile phase

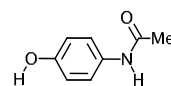
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

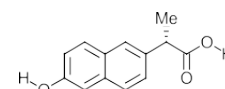
LC System: Shimadzu Prominence UFLC XR

Extra column volume: ~14 µL

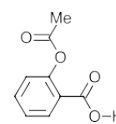
STRUCTURES:



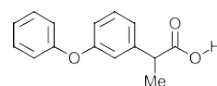
Acetaminophen



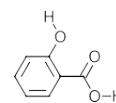
Naproxen



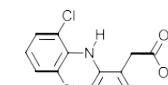
Aspirin



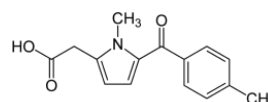
Fenopropfen



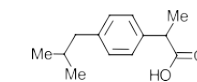
Salicylic acid



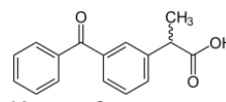
Diclofenac



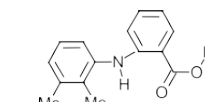
Tolmetin



Ibuprofen



Ketoprofen



Mefenamic acid

