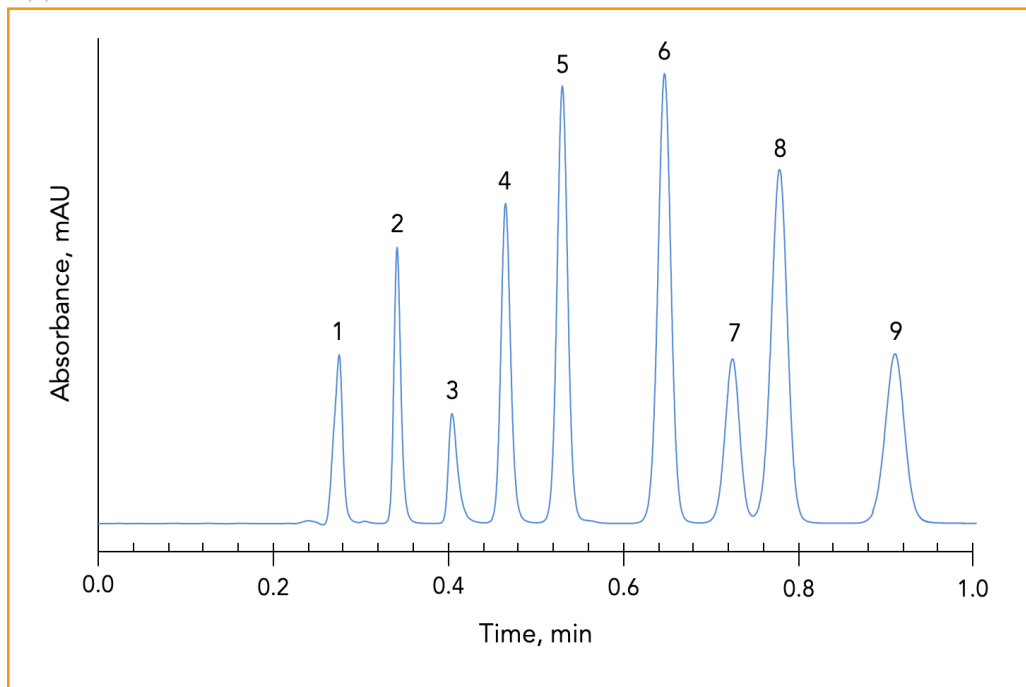




### Isocratic Separation of NSAIDs on HALO® ES-CN Phase

Application Note 56-NS



#### PEAK IDENTITIES:

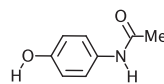
1. Acetaminophen
2. Aspirin
3. Salicylic acid
4. Tolmetin
5. Naproxen
6. Fenopropfen
7. Ibuprofen
8. Diclofenac
9. Mefenamic acid

This separation illustrates the separating power of HALO® Fused-Core® stationary phases. Nine NSAID drugs are separated in under one minute on a 50 mm HALO® ES-CN column.

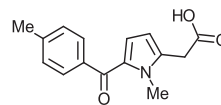
#### TEST CONDITIONS:

**Column:** HALO 90 Å ES-CN, 2.7 µm,  
4.6 x 50 mm  
**Part Number:** 92814-404  
**Mobile Phase:** 50/50 - A/B  
A: 0.02 M potassium phosphate buffer, pH 2.5  
B: Acetonitrile  
**Flow Rate:** 2.0 mL/min  
**Pressure:** 165 bar  
**Temperature:** 35 °C  
**Detection:** UV 230 nm, VWD  
**Injection Volume:** 0.5 µL  
**Sample Solvent:** Water/methanol  
**Response Time:** 0.02 sec  
**Flow Cell:** 2.5 µL semi-micro  
**LC System:** Shimadzu Prominence UFLC XR  
**Extra column volume:** ~14 µL

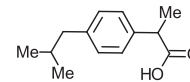
#### STRUCTURES:



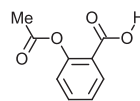
Acetaminophen



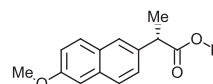
Tolmetin



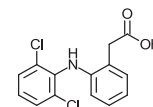
Ibuprofen



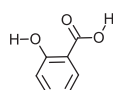
Aspirin



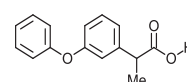
Naproxen



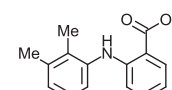
Diclofenac



Salicylic acid



Fenopropfen



Mefenamic acid

