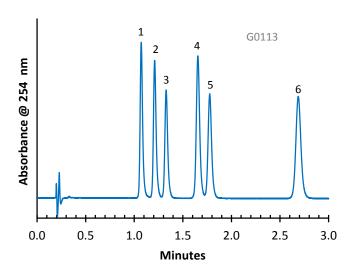
HALO: | Fused-Core® Particle Technology

Application Note: 129-BZ

Benzodiazepines Separation on HALO 2 Phenyl-Hexyl



PEAK IDENTITIES:

- 1. Lorazepam
- 2. Alprazolam
- 3. Clonazepam
- 4. Temazepam5. Flunitrazepam
- 6. Diazepam

TEST CONDITIONS:

Columns: 2.1 x 50 mm, HALO 2 Phenyl-Hexyl

Part Number: 91812-406
Mobile Phase: 62.5/37.5-A/B
A= Water with 0.1% formic acid/
10 mM ammonium formate, pH 3.3
B= 80/20 Acetonitrile/Water with 0.1%
formic acid/10 mM ammonium formate

Flow Rate: 0.55 mL/min. Pressure: 311 bar Temperature: 35 °C Detection: UV 254 nm, PDA Injection Volume: 0.5 μL

Sample Solvent: 30/70-water/acetonitrile

Data Rate: 80 Hz Response Time: 0.02 sec. Flow Cell: 2 μL micro cell LC System: Agilent 1200 SL

These six benzodiazepines are baseline resolved on a HALO 2 Phenyl-Hexyl column. The π - π interactions between the Phenyl-Hexyl phase and these anti-anxiety drugs help to enhance the separation.

STRUCTURES:

Lorazepam



Alprazolam

Clonazepam



Temazepam



Flunitrazepam

Diazepam

