## HALO: | Fused-Core® Particle Technology

Application Note: 186-BZ



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## 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. Temazepam
- 5. 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  $\pi$ - $\pi$  interactions between the Phenyl-Hexyl phase and these anti-anxiety drugs help to enhance the separation.









Alprazolam



Clonazepam



Flunitrazepam



Temazepam





Diazepam



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# HALO: | Fused-Core® Particle Technology

Application Note: 51-BZ

## Separation of Benzodiazepines on HALO Phenyl-Hexyl, C18, and PFP Phases





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