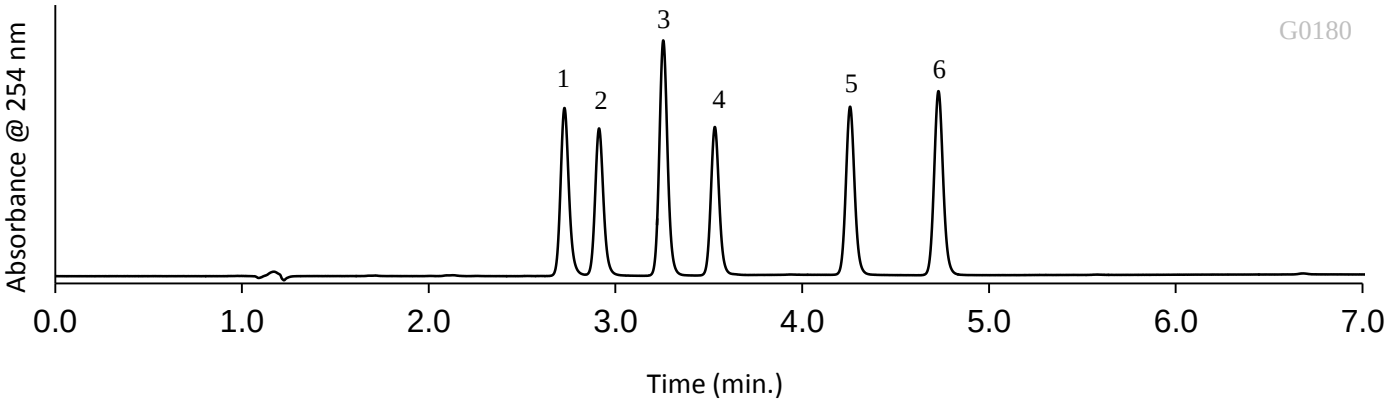
# HALO® | Fused-Core® Particle Technology

Application Note: 186-BZ

## Separation of Benzodiazepines on HALO® PFP, 5 µm




### TEST CONDITIONS:

Column: HALO 90 Å PFP, 5 µm, 4.6 x 100mm
Part Number: 95814-609
Mobile Phase A: 25 mM Ammonium acetate pH: 5.5
Mobile Phase B: Acetonitrile
Gradient:

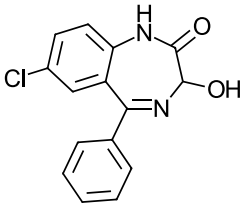
| Time | %B |
|---|---|
| 0.0 | 36 |
| 7.0 | 65 |

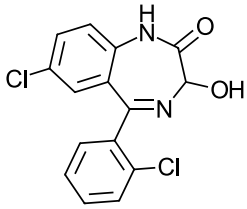
Flow Rate: 0.75 mL/min
Pressure: 46 bar
Temperature: 35°C
Detection: UV 254 nm
Injection Volume: 1.0 µL
Response Time: <0.12 sec
Flow Cell: 5 µl semi-micro
LC System: Agilent 1100

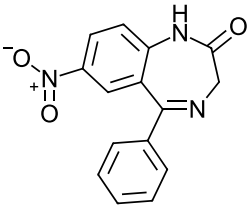
### PEAK IDENTITIES:

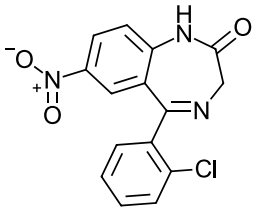
1. Oxazepam
2. Lorazepam
3. Nitrazepam
4. Clonazepam
5. Flunitrazepam
6. Diazepam

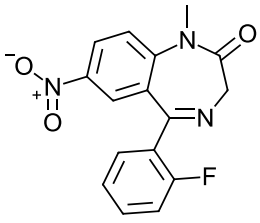
### STRUCTURES:

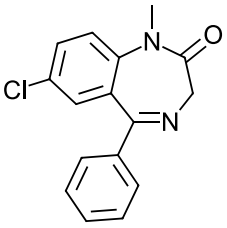

Oxazepam


Lorazepam


Nitrazepam


Clonazepam


Flunitrazepam


Diazepam

Benzodiazepines are a class of compounds known to be minor tranquilizers, which are mainly used to treat anxiety, insomnia, and seizures in people, as well as animals. A separation of six benzodiazepines is performed on a HALO® 5 µm PFP column.




FOR MORE INFORMATION OR TO PLACE AN ORDER, CONTACT: