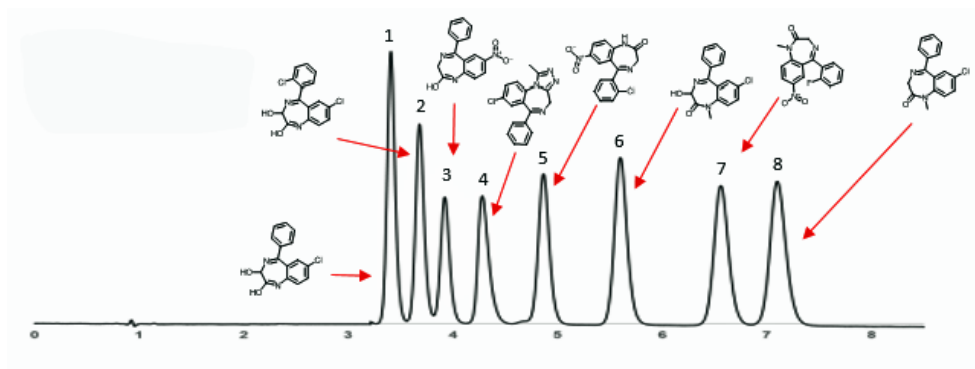


Benzodiazepine Compounds Separation with HPLC - AppNote

Date: 8-JANUARY-2022 Last Updated: 25-OCTOBER-2025

An Analysis of 8 Benzodiazepine Compounds

This isocratic method demonstrates an effective method for 8 different benzodiazepine compounds with excellent separations. Using the column in this method provides different selectivity and improved efficiency compared to a standard C18 column.



Peaks:

1. Oxazepam, 2. Lorazepam, 3. Nitrazepam, 4. Alprazolam
5. Clonazepam, 6. Temazepam, 7. Flunitrazepam, 8. Diazepam

Method Conditions:

Column: Cogent Biphenyl™, 3μm, 120Å

Catalog No.: [61325-10P-2](#)

Dimensions: 2.1mm x 100mm

Mobile Phase:

Acetonitrile, DI Water, Formic Acid (37:63:0.1, v/v/v)

Flow rate: 0.3mL / minute

Injection vol.: 1μL

Column Temperature: 25° C

Detection: UV @ 254nm

Note 1: On standard C18 columns, with the same method, typically Peaks 1 & 3 co-elute, Peaks 2 & 4 as well as Peaks 7 & 6 are not baseline resolved.



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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com