PRODUCT SHEET

MICROSOLV TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40008-05P-3

CUSTOM ITEM: HPLC Column, Bidentate C8, 4um, 3.0mm ID x 50mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40008 05P 3 Cogent Bidentate C8™ HPLC Column is a custom manufactured, mid bore analytical column designed to deliver alternative reversed phase selectivity with reduced solvent consumption compared to standard 4.6 /mm ID formats. Built on Cogent TYPE C™ silica hydride technology, this column provides excellent selectivity, faster equilibration, and extremely robust column lifetime under demanding analytical conditions.

The stationary phase consists of an aliphatic C8 hydrocarbon chain bonded via two direct silicon – carbon bonds (bidentate attachment) to a silica hydride surface. This chemistry produces a phase that is more hydrophobic than conventional C8 columns, yet less hydrophobic than Bidentate C18™, making it well suited when C18 retention is excessive but stronger retention than standard C8 is desired. Unlike traditional silica based C8 phases, this column can also retain select hydrophilic compounds, offering increased method flexibility.

The 3.0 /mm internal diameter enables lower flow rates and significantly reduced mobile phase usage, while the 50 /mm length supports short run times comparable to 4.6 /mm ID columns. Importantly, these solvent saving benefits are...

MicroSolv Technology Corporation
9158 Industrial Blvd. NE, Leland, NC 28451
tel. (732) 380-8900, fax (910) 769-9435
Email: info@mtc-usa.com
Website: www.mtc-usa.com