PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40008-10P-3

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

Additional Info

The 40008 10P 3 Cogent Bidentate C8™ HPLC Column is a custom manufactured, mid bore analytical column designed to provide alternative reversed phase selectivity with enhanced resolution and reduced solvent consumption compared to standard 4.6 /mm ID formats. Built on Cogent TYPE C™ silica hydride technology, this column delivers 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 non traditional chemistry produces a phase that is more hydrophobic than conventional C8 columns, yet less hydrophobic than Bidentate C18™, making it an ideal choice when C18 retention is excessive but stronger retention than standard C8 is still desired. Unlike traditional silica based C8 phases, this column can also retain select hydrophilic compounds, expanding the method development window.

The 3.0 /mm internal diameter allows operation at lower flow rates, significantly reducing mobile phase consumption, while the 100 /mm length increases plate count and resolving...

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