PRODUCT SHEET

MICROSOLV TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40008-10P-2

HPLC Column, Bidentate C8, 4um, 2.1mm ID x 100mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40008 10P 2 Cogent Bidentate C8™ HPLC Column is a narrow bore, extended length analytical column designed for applications requiring greater resolution than 50 /mm formats, while maintaining alternative reversed phase selectivity when C18 retention is excessive. Built on Cogent TYPE C™ silica hydride technology, this column delivers excellent selectivity, faster equilibration, and extremely robust column lifetimes compared with conventional silica based C8 columns.

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 traditional C8 columns, yet less hydrophobic than Bidentate C18™, offering a controlled middle ground for method development. Unlike standard C8 phases, this column can also retain select hydrophilic compounds if desired and is stable at very low pH (below pH /2) without damage.

The 2.1 /mm internal diameter supports low flow operation, reduced solvent consumption, and enhanced detector sensitivity, while the 100 /mm length increases plate count and resolving power relative to 50 /mm formats. ...

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