PRODUCT SHEET

MICROSOLV
TECHNOLOGY CORPORATION
HPLC Columns and Chromatography Accessories

Catalog Number

40018-25P-3

CUSTOM ITEM: HPLC Column, Bidentate C18, 4um, 3.0mm ID x 250mm Length, 100A. Cogent TYPE-C Brand. 1 EA.

Additional Info

The 40018 25P 3 Cogent Bidentate C18™ HPLC Column is a custom manufactured, long format mid bore column designed to deliver the highest resolving power in the Bidentate C18™ family while using significantly less mobile phase than equivalent 4.6 /mm ID columns. Built on Cogent TYPE C™ silica hydride technology, this column provides unique selectivity, rapid equilibration, and exceptional chemical robustness for demanding analytical methods.

The stationary phase utilizes an aliphatic C18 chain bonded via two direct silicon – carbon bonds (bidentate attachment) to a silica hydride surface. This chemistry produces a surface that is highly hydrophobic yet versatile, enabling retention of compounds that often show weak or inconsistent retention on conventional silica based C18 columns. Unlike traditional C18 phases, this column supports 100 /% aqueous mobile phases without phase collapse and tolerates very low pH conditions (below pH /2) with no damage.

The 3.0 /mm internal diameter allows operation at lower flow rates, reducing solvent consumption and waste, while delivering run times comparable to 4.6 /mm ID columns. The extended 250 /mm length maximizes plate count and selectivity, m

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