The simple answer is directly to the silica surface by silicon to carbon bonds

For more details, the Cogent UDA $^{\text{\tiny M}}$ HPLC column ligand is a C11 chain with a carboxylic acid on one end. On the other end, there are two orientations for how the ligand could be bonded to the Cogent TYPE-C $^{\text{\tiny M}}$ Silica support.

The first orientation is shown in A. In this case, only one hydrosilation occurs from the starting reagent, resulting in a remaining double bond and a single point of attachment.

In the second orientation B, another hydrosilation occurs with structure A and a nearby Si-H group, resulting in no more double bonds. This requires that the other Si-H group is close enough to react. This is called a Bidentate attachment.

For the Cogent UDA $^{\text{\tiny TM}}$ HPLC columns, B is structure of the ligand.

A
$$Si_H c = c_9 - COOH$$
 B $Si_Si_H c - c_9 - COOH$



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